User Guide

Getting Started with Amazon Web Services China

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Getting Started with Amazon Web Services China: User Guide

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Services or capabilities described in Amazon Web Services documentation might vary by Region. To see the differences applicable to the China Regions, see Getting Started with Amazon Web Services in China (PDF).

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Welcome

Welcome to *Getting Started with Amazon Web Services China* . This guide provides information and resources to help you start computing with Amazon Web Services China. Here you'll find instructions for setting up your Amazon Web Services China account, links to service guides, information on the Amazon Command Line Interface and SDKs, ideas for building solutions, and links to support and other resources. If you're new to Amazon Web Services China, this is the place to start.

This guide also documents differences between the Amazon Web Services China as currently implemented and as described in other product guides. Amazon Web Services operates in different Regions around the world, and some services vary by Region. To learn more about the implementation of services in these Regions and any regional differences that may exist, see the Region Table and Documentation by Service.

Again, welcome to the *Getting Started* guide, and welcome to Amazon Web Services China.

亚马逊云科技

NWCD operating Ningxia Region
Sinnet operating Beijing Region

亚马逊云科技

西云数据运营宁夏区域
光环新网运营北京区域

What is Amazon Web Services China?

Amazon Web Services China is the implementation of Amazon Web Services in the Beijing and Ningxia (China) Regions. Directly connected to domestic telecommunication networks, it's designed to provide the infrastructure and network services necessary to support Amazon technology.

Amazon Web Services China provides computing resources and services that you can use to quickly and cost-effectively build applications. For example, you can rent a virtual server on Amazon Web Services China that you can connect to, configure, secure, and run just as you would a physical server. But the virtual server runs on top of a global network managed by Amazon, and you pay for your virtual server only while it runs. Backed by Amazon Web Services China, your virtual server can do things no physical server can, such as automatically scaling into multiple servers when demand increases.

Using Amazon Web Services China to build your Internet application is like purchasing electricity from a power company instead of running your own generator, and it provides many of the same benefits: capacity exactly matches need; you pay only for what you use; economies of scale result in lower costs; and the service is provided by a vendor experienced in running large-scale networks.

You can run nearly anything on Amazon Web Services China that you would run on physical hardware: websites, applications, databases, mobile apps, email campaigns, distributed data analysis, and media storage. The services are designed to work together so that you can build complete solutions, and many of the most utilized Amazon products are available in the China Regions.

The following topics will help you get started with Amazon Web Services China.

Managing Amazon Web Services China

There are several tools that you can use to create and manage Amazon Web Services China resources.

- **Amazon Web Services Management Console** – A graphical user interface that you access online at https://console.www.amazonaws.cn. The Amazon Web Services Management Console is the fastest way to get started with Amazon Web Services China; there is nothing to install. Some services, however, have features that can't be accessed from the console. For more information, see Using the Console or the service documentation.

- **Amazon Command Line Interface (Amazon CLI)** – A text-based tool that you install on your desktop. With the Amazon CLI, you can manage and script against multiple Amazon Web Services China resources directly from the command line. Some services also offer custom CLIs. For more information, see Amazon Command Line Tools.
- **Software Development Kits (SDKs)** – Class libraries and tools that you add to your application so it can manage Amazon Web Services China resources. Amazon offers SDKs in a variety of programming and scripting languages. The SDKs are the easiest way to write applications that interface with Amazon Web Services China; they provide functions that you can call to authenticate your application's connection to Amazon Web Services China. For more information, see Amazon SDKs
- **Query APIs** – Low-level APIs that are exposed online through service- and Region-specific endpoints (for example, `https://dynamodb.cn-north-1.amazonaws.com.cn` for the China (Beijing) Region, and `https://dynamodb.cn-northwest-1.amazonaws.com.cn` for the China (Ningxia) Region). You call API actions by using HTTP requests. The APIs reflect the latest functionality of each service. If your application uses the API instead of an SDK, however, you must implement the functionality to generate the proper signatures to authenticate your requests.

Signup, Accounts, and Credentials

To use Amazon Web Services China services, you need an account and credentials specific to Amazon Web Services China, the suite of Amazon Web Services available in the Beijing and Ningxia (China) Regions. Accounts created for other Amazon Regions won't work for Amazon Web Services China. Similarly, Amazon Web Services China accounts won't work in Amazon Regions outside the China (Beijing) and China (Ningxia) Regions. To use services in another Region, Amazon Web Services China customers need to sign up for an account in that Region.

To comply with Chinese law and regulations, Amazon Web Services China customers who want to make content publicly available via Amazon Web Services China services are required to first file for Internet Content Provider (ICP) recordal with the Ministry of Industry and Information Technology. Until ICP recordal is complete, Amazon Web Services China customers are granted an Internal Access Account, which provides limited access to Amazon Web Services China features. Amazon Web Services China customers who don't intend to publish content publicly aren't required to complete ICP recordal. These customers can get started right away by signing up for an Internal Access Account and using Amazon Web Services China services for personal projects or for projects

internal to their organization. To use all of the Amazon Web Services China features, customers need a Full Access Account. The two account types are described in more detail below.

Signup

The Amazon Web Services Management Console walks you through the process of signing up for Amazon Web Services China. Only Sign up for Amazon (advanced) is supported. The steps below provide a high-level overview of signup.

To sign up for Amazon Web Services China :

1. Go to www.amazonaws.cn and register with Amazon Web Services China.
2. Receive an Internal Access Account.
3. (Optional) Complete the ICP recordal process. This step is necessary for publishing content for public consumption. When you've completed ICP recordal, you'll receive a Full Access Account.
4. Receive your Amazon Web Services China account credentials. The credentials consist of an account ID, access key ID, and secret access key. Note that you can't use your Amazon Web Services China credentials to access any other Amazon Region.

IAM Credentials

To use the Amazon Web Services China console, you must have credentials provided by Amazon Identity and Access Management (IAM). All users have to create IAM credentials during the sign-up process. When you first sign up for Amazon Web Services China, you create an IAM user administrator. Then you can sign in to the Amazon Web Services China console with your account ID.

The administrator has full access to manage Amazon Web Services China resources. For example, as the administrator, you can create additional IAM users by using the Amazon Web Services China console. You can then manage users and their permissions by assigning them to groups. For more information about users, groups, and policies, see Working with Users and Groups. To learn more about IAM and about credentials in Amazon Web Services China, see Amazon Identity and Access Management.

If you forget your IAM user password, you can reset the password from the Amazon Web Services Management Console. Amazon will send a password reset link to the email address that is associated this Amazon account. If you don't have access to that email, contact your administrator.

To reset your IAM user password:

- Use your Amazon account ID or alias to begin signing in to the Amazon Web Services Management Console at https://console.amazonaws.cn/.
- Choose **Forgot password?**.
- If necessary, enter your account ID and user name. Then provide the CAPTCHA text and choose **Send email**.
- Check the email that is associated with your Amazon account for a message from Amazon Web Services. The email will come from an address ending in `@amazonaws.cn`. If you don't see the email in your account, check your spam folder. If you no longer have access to the email, contact your account administrator. If you are the administrator, contact Amazon Web Services Support Center.
- Follow the directions in the email to reset your password. If your administrator has enabled an account password policy, you must meet those complexity requirements. AWSBillingReadOnlyAccess If you receive an error, contact your administrator to learn about your specific requirements. For more information, see Setting an Account Password Policy for IAM Users in the *IAM User Guide*.

Close Account

Use the Amazon Web Services Management Console to close your Amazon Web Services account in China. The steps below provide a high-level overview.

If you close the account that you're using for the Amazon Firewall Manager administrator, Amazon and Firewall Manager handle the closure as follows:

Amazon Web Services revokes the account's administrative access from the service and deactivates any policies that were managed by the administrator account. The protections that were provided by these policies are stopped across the organization.

- Before closing your account, back up and then delete your policy data and other account resources. You will no longer have access to them after you close the account.
  - The account resources are subject to the policies of Amazon Web Services operating partners: Sinnet in the China (Beijing) Region and NWCD in the China (Ningxia) Region. Account closure procedures in China might take longer than in other Amazon Web Services Regions.
- For more information, see Closing an account.

You can close your Amazon Web Services account using the following procedure.

To close your Amazon Web Services account

1. Sign in as the root user of the account that you want to close, using the email address and password that are associated with the account.

   If you sign in as an Amazon Identity and Access Management (IAM) user or role, you can't close an account.
2. On the navigation bar in the upper-right corner, choose your account name (or alias), and then choose **My Account**.
3. On the **Account Settings** page, scroll to the end of the page to the **Close Account** section. Read and ensure that you understand the text next to the check box. After you close an Amazon Web Services account, you can no longer use it to access Amazon services.
4. Select the check box to accept the terms, and then choose **Close Account**.
5. In the confirmation box, choose **Close Account**.

Internal Access Account

An Internal Access Account provides limited access to Amazon Web Services China services. Internal Access Accounts are granted to Amazon Web Services China customers who don't intend to host public content directly from their Amazon Web Services China accounts, and to customers who want to host public content but have not yet completed ICP recordal. With Internal Access Accounts, public access is restricted as follows:

- In Amazon EC2, all common internet ports (except ports 22 and 3389) are blocked. Internal ports remain available.
- In Amazon S3, buckets are not allowed to serve content for public anonymous access, and pre-signed URL functionality is disabled.

Full Access Account

Full Access Accounts are granted to Amazon Web Services China customers who have completed ICP recordal. A Full Access Account provides full access to Amazon Web Services China features.

Billing and Payment

Amazon Web Services China is priced and billed in local currency (CNY). Each month, Amazon Web Services China sends an invoice to the email address of the account owner. You can also view your Amazon Web Services China bill on the **Bills** page of the Amazon Billing and Cost Management console. You use Amazon Web Services China resources first and then receive an invoice based on usage. You can then pay using either wire transfer or Corporate Bank Redirect.

Note that some features described in the Amazon documentation might not be available in the current Amazon Web Services China release.

Unavailable features in the billing console include:

- Payment profiles
- Backup payment methods

In the case of Amazon Billing and Cost Management, the free pricing tier is included in the China (Ningxia) Region.

Amazon Cost Explorer

Cost Explorer is a tool that enables you to view and analyze your costs and usage. You can view data for up to the last 12 months to forecast how much you're likely to spend for the next 3 months.

Some feature APIs listed under Amazon Cost Explorer API are currently not available in the China Regions. Unavailable features include:

- Account name dimension in Cost Category Rules.
- Chatbot feature is not available for Amazon Cost Anomaly Detection

Service Endpoint

Amazon Cost Explorer API in China provides the following endpoints:

- **https://ce.cn-northwest-1.amazonaws.com.cn**

For more information in the API reference and User Guide, see Amazon Billing and Cost Management

Amazon Budgets

You can use Amazon Budgets to plan your service cost and usages, as well as reservation coverage and utilizations. With Amazon Budgets, you can receive alerts when your cost and usage exceeds your defined threshold, or is forecasted to exceed thresholds.

Some feature APIs listed under Amazon Budgets are currently not available in the China Regions. Unavailable features include:

- Service Control policies (SCPs) budget action type
- Legal entity and invoicing entity dimension filters

Service Endpoint

Amazon Budgets API in China provides the following endpoints:

- **https://budgets.amazonaws.com.cn**

For more information in to find the API reference and User Guide, see Amazon Billing and Cost Management

Amazon Cost and Usage Report

The Amazon Cost and Usage Reports (Amazon CUR) contains the most comprehensive set of cost and usage data available in Amazon. You can use Amazon CUR to publish your Amazon Web Services billing reports to an Amazon Simple Storage Service (Amazon S3) bucket.

When you create an Amazon CUR for China Regions, you can only create buckets in cn-north-1 (Beijing) and cn-northwest-1 (Ningxia).

Service Endpoint

Amazon Cost and Usage Report preference API in China provides the following endpoints:

- **https://cur.cn-northwest-1.amazonaws.com.cn**

For more information in to find the API reference and User Guide, see Amazon Billing and Cost Management

Tax Settings

For each Amazon Web Services China account you create, you can enter your tax information on the Tax Settings page of the Amazon Billing and Cost Management console. In addition to providing your name, business information, and address for tax purposes, you also specify the type of VAT invoice you want to receive from Amazon Web Services China.

To enter your tax information:

1. Sign in to the Amazon Web Services Management Console, and choose your account name in the top navigation bar.
2. To open the Amazon Billing and Cost Management console, choose **Billing & Cost Management**.
3. In the Amazon Billing and Cost Management console, choose **Tax Settings** and then follow the instructions on the page.

ICP Recordal

To use Amazon Web Services China to host or distribute content publicly, you must complete the Internet Content Provider (ICP) recordal process. You can start the ICP recordal process through the Amazon Billing and Cost Management console. You will be redirected to a third-party site that handles the process.

To file for ICP recordal:

1. Sign in to the Amazon Web Services Management Console and choose your account name in the top navigation bar.
2. To open the Amazon Billing and Cost Management console, choose **Billing & Cost Management**.
3. In the Amazon Billing and Cost Management console, choose the ICP recordal link, and follow the instructions on the page.

Amazon Price List API

The Amazon Price List Bulk API enables you to query for the prices of Amazon Web Services services by using either JSON or CSV. Amazon prices change periodically, such as when new services or features are launched or Amazon changes prices. You can receive Amazon Simple Notification Service notifications by using the following topic ARN:

`arn:aws:sns:us-east-1:278350005181:price-list-api-china`

Service Endpoint

You can use the following endpoint:

- **https://pricing.cn-northwest-1.amazonaws.com.cn**

You can also get pricing information from the following URL:

- **https://pricing.cn-northwest-1.amazonaws.com.cn/offers/v1.0/cn/index.json**

The Amazon Price List Query API provides a centralized and convenient way to programmatically query Amazon for services, products, and pricing information.

Service Endpoint

You can use the following endpoint:

- **https://api.pricing.cn-northwest-1.amazonaws.com.cn**

When you call the ListPriceLists API operation, the `CurrencyCode` must be `CNY`.

Using the Console

The Amazon Web Services Management Console provides a simple web interface for Amazon Web Services. The Amazon Web Services Management Console is available in both Chinese and English and can be accessed at https://console.amazonaws.cn. The Amazon Web Services Management Console is dedicated to the China (Beijing) and China (Ningxia) Regions and doesn't support other Amazon Regions.

For console access, use your IAM user name and password to sign in to the Amazon Web Services Management Console using the IAM sign-in page. IAM lets you securely control access to Amazon services and resources in your Amazon Web Services account.

General Information About Amazon Web Services China

The following information applies to all Amazon Web Services that are available in the China Regions.

Amazon Web Services Accounts in the China Regions

To use services in the China (Beijing) and China (Ningxia) Regions, you need an account and credentials specific to each of those Regions.

- Accounts and credentials for other Amazon Regions will not work for services operating in the China (Beijing) and China (Ningxia) Regions.
- Accounts and credentials for the China (Beijing) and China (Ningxia) Regions will not work for other Amazon Regions.
- For more information, see Signup, Accounts, and Credentials.

Domain for Amazon Web Services China

The domain for Amazon Web Services China is **www.amazonaws.cn**.

Endpoints & Amazon Resource Names (ARNs)

For information about endpoints and ARNs in Amazon Web Services China, see Endpoints and ARNs for Amazon Web Services China.

Availability Zones for the China Regions

- In the China (Beijing) Region, there are three Availability Zones.
- In the China (Ningxia) Region, there are three Availability Zones.

General Information for Amazon Web Services China

The following applies to all Amazon Web Services that are available in the China Regions. For detailed information about specific Amazon Web Services, see the service-specific topic in this guide.

- Amazon Identity and Access Management (IAM)
  - You can grant or deny a service access to resources using the `Principal` policy element.

  - Service principal values vary by Region.
- Free Usage Tier
  - For information about Free Tier offers and availability in the China Regions, see Amazon Web Services China Regions Free Tier.

Amazon Web Services Console

The console for Amazon Web Services China is unique to China. The screenshots in the Amazon Web Services guides might differ from what you see on your console. For information about differences in service functionality, see the topics for each service in this guide.

Code Examples

The Amazon Web Services documentation might include endpoints and ARNs in code examples that are not specific to the China (Beijing) and China (Ningxia) Regions. When using examples, verify you are using the endpoints and ARNs for your Region.

About documentation for Amazon Web Services China

Amazon Web Services China user guides are available in HTML and PDF, in both Chinese and English. API references are available in HTML and PDF. Some API references may be available only in English. Currently, not all API references are available in the China (Beijing) and China (Ningxia) Regions. Links to some API references will take you to the global Amazon Web Services site. Note that some features and functionality described in the guides and references may not be available in the current Amazon Web Services China release.

For documentation links specific to each service, see the Documentation section on each service's page in this guide.

Documentation by Service

The following topics describe the services available in the China (Beijing) and China (Ningxia) Regions. Each topic includes an overview of the service and links to additional documentation for the service. If there are differences between the expected functionality of a service and its functionality in the China Regions, these differences are documented. For services supported in the China Regions, see the Region Table.

> **Note**
>
> Amazon Web Services China use a region-specific console. The Amazon documentation might show screenshots of the console for other Regions; changes in service functionality are documented in the topics for each service.

Amazon Account Management in Amazon Web Services China

Amazon Account Management helps you manage the Amazon Web Services accounts that you use to access Amazon Web Services. You can update the contact information associated with the the account. In an organization that is managed by Amazon Organizations you can set or update the contact information for all of the member accounts.

Region availability

Amazon Account Management is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Account Management differs

The following differences apply to Amazon Account Management:

- You can't change the `Country code` or `Company name` for your primary account contact. To change these values, contact Customer Support.

Documentation

- Amazon Account Management Reference Guide
- Amazon Account Management API Reference

Amazon API Gateway in Amazon Web Services China

Amazon API Gateway is a fully managed service that makes it easy for developers to create, publish, maintain, monitor, and secure APIs at any scale. With a few clicks in the Amazon Web Services Management Console, you can create an API that acts as a "front door" for applications to access data, business logic, or functionality from your back-end services, such as workloads running on Amazon Elastic Compute Cloud (Amazon EC2), code running on Amazon Lambda, or any web application.

Amazon API Gateway handles all the tasks involved in accepting and processing up to hundreds of thousands of concurrent API calls, including traffic management, authorization and access control, monitoring, and API version management. Amazon API Gateway has no minimum fees or startup costs. You pay only for the API calls you receive and the amount of data transferred out.

Region availability

Amazon API Gateway is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon API Gateway differs

- Portals are not available.
- To call API Gateway APIs in the China (Beijing) and China (Ningxia) Regions, you must use China (Beijing) Region-specific or China (Ningxia) Region-specific endpoints.
- Edge-optimized APIs and edge-optimized custom domain names are not available.
- Filing for Internet Content Provider (ICP) recordal—If you want to service API requests in the China (Beijing) Region that can be accessed without authentication, you must obtain an ICP license. For information about filing for ICP recordal, see . You may also need to refile for ICP

allowlisting for API Gateway in the China (Ningxia) Region even if you already filed for it in the China (Beijing) Region.

- The following API Gateway features are either unavailable in the China (Beijing) and China (Ningxia) Regions or require an ICP license:
  - API Gateway serves unauthenticated API requests only if the API owner's Amazon Web Services account is associated with a valid ICP license. As a result, creating an API using a Lambda authorizer or no authorizer requires an ICP license.
  - You can configure an API using a custom authorizer or no authorizer, but the API can only be accessed if your Amazon Web Services China account is associated with an ICP license.
  - All custom domain names require an ICP license.
- Amazon Cognito authorizers are not available.
- Java and Ruby SDK generation is not available.
- HTTP API private integrations with Amazon Cloud Map are not available.

Documentation

- link:apigateway/latest/developerguide/ABP Developer Guide,type="documentation"]
- V1 API Reference
- V2 API Reference

Amazon App Mesh in Amazon Web Services China

Amazon App Mesh makes it easy to monitor and control microservices running on Amazon Web Services.

Region availability

Amazon App Mesh is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon App Mesh differs

The following differences apply to Amazon App Mesh:

- Amazon Private CA based TLS is not available.
- Cross account mesh (shared mesh) is not available.

Documentation

- Amazon App Mesh User Guide
- Amazon App Mesh API Reference

Application Auto Scaling in Amazon Web Services China

Application Auto Scaling is a web service for developers and system administrators who need a solution for automatically scaling their scalable resources for individual Amazon services beyond Amazon EC2.

For information about related services, see:

- Amazon Auto Scaling
- Amazon EC2 Auto Scaling

Region availability

Application Auto Scaling is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Application Auto Scaling differs

The following differences apply to Application Auto Scaling:

- Only the following resources are supported for Application Auto Scaling in the China (Beijing) Region:

  - Amazon ECS services
  - Spot Fleet requests
  - Amazon EMR clusters
  - DynamoDB tables and global secondary indexes
  - Amazon SageMaker AI endpoint variants
  - Aurora replicas
  - Custom resources provided by your own applications or services
  - Lambda function provisioned concurrency
  - Amazon Keyspaces (for Apache Cassandra) tables
  - Amazon MSK cluster storage
  - Amazon Neptune clusters
  - ElastiCache replication groups (Redis OSS and Valkey) and Memcached clusters
- Only the following resources are supported for Application Auto Scaling in the China (Ningxia) Region:
  - Amazon ECS services
  - Spot Fleet requests
  - Amazon EMR clusters
  - DynamoDB tables and global secondary indexes
  - Amazon SageMaker AI endpoint variants
  - Aurora replicas
  - Lambda function provisioned concurrency
  - Amazon Keyspaces (for Apache Cassandra) tables
  - Amazon MSK cluster storage
  - Amazon Neptune clusters
  - ElastiCache replication groups (Redis OSS and Valkey) and Memcached clusters
- Because Amazon Health Dashboard is unavailable in the China Regions, Application Auto Scaling does not support Amazon Health Dashboard features.

Documentation

- Application Auto Scaling User Guide

- Application Auto Scaling API Reference

Amazon Application Recovery Controller (ARC) in Amazon Web Services China

Amazon Application Recovery Controller (ARC) provides several distinct capabilities: *readiness checks*, *Region switch*, *routing controls*, and *zonal shifts*. With ARC, you can gain insights into whether your applications and resources are prepared for recovery, and quickly mitigate impairments for a multi-Availability Zone or multi-Region application. ARC helps you prepare for and accomplish faster recovery operations for applications running on Amazon.

Zonal shift and zonal autoshift in ARC are available in the China (Beijing) and China (Ningxia) Regions. Zonal shift helps you manage and coordinate recovery for Amazon applications by enabling you to manually shift a supported resource's traffic away from an unhealthy Availability Zone (AZ) to healthy AZs. Zonal autoshift is a feature that you can enable to have Amazon safely and automatically shift your application's traffic away from an AZ when Amazon identifies a potential failure affecting that AZ. Temporarily moving traffic for a resource away from an unhealthy AZ helps your application recover quickly, minimizing impact for your customers.

Region availability

Amazon Application Recovery Controller is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Application Recovery Controller differs

The following differences apply to Amazon Application Recovery Controller:

- Readiness Checks is not available.
- Region Switch is not available.
- Routing Control is not available.

Documentation

- Amazon Application Recovery Controller (ARC) Developer Guide
- Zonal Shift and Zonal Autoshift API Reference Guide for Amazon Application Recovery Controller (ARC)

Amazon Auto Scaling in Amazon Web Services China

With Amazon Auto Scaling, you can quickly set up dynamic and predictive scaling for your scalable Amazon resources. It uses Amazon EC2 Auto Scaling to scale your EC2 instances and Application Auto Scaling to scale resources from other services.

For information about related services, see:

- Application Auto Scaling
- Amazon EC2 Auto Scaling

Region availability

Amazon Auto Scaling is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Auto Scaling differs

There are no differences for this service.

Documentation

- Amazon Auto Scaling User Guide
- Amazon Auto Scaling API Reference

Amazon AppSync in Amazon Web Services China

Amazon AppSync is an enterprise level, fully managed GraphQL service with real-time data synchronization and offline programming features.

Create and interact with data sources using GraphQL from your application. You can build a new application or integrate existing data sources with Amazon AppSync.

Region availability

Amazon AppSync is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon AppSync differs

- You cannot create Amazon AppSync data sources for resources outside of the China (Beijing) Region.
- You cannot use Amazon Cognito User Pools as an authentication mode.
- You cannot enable encryption in transit or encryption at rest for your server-side data cache.
- You cannot create Amazon RDS data sources.

Documentation

- Amazon AppSync Developer Guide
- Amazon AppSync API Reference

Amazon Athena in Amazon Web Services China

Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL. Athena is serverless, so there is no infrastructure to setup or manage, and you pay only for the queries you run. To get started, simply point to your data in S3, define the schema, and start querying using standard SQL.

Region availability

Amazon Athena is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Athena differs

There are no differences for this service.

Documentation

- Amazon Athena User Guide
- Amazon Athena API Reference

Amazon Aurora in Amazon Web Services China

Amazon Aurora is a MySQL- and PostgreSQL-compatible relational database built for the cloud, that combines the performance and availability of traditional enterprise databases with the simplicity and cost-effectiveness of open source databases.

Region availability

Amazon Aurora is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Aurora differs

The following differences apply to Amazon Aurora:

- Backtracking is not available.
- Aurora Serverless v1 isn't available in the China (Beijing) Region.
- Because the China (Ningxia) Region uses a unique certificate authority (CA), update your DB clusters for the China (Ningxia) Region to use the Region-specific certificate identified by `rds-`

`ca-rsa2048-g1` in DescribeCertificates calls as soon as possible. The remaining instructions described in the Rotating your SSL/TLS certificate topic are the same, except for the certificate identifier.

- Zero-ETL integration with SageMaker Lakehouse isn't available.

Documentation

- Amazon Aurora User Guide

Amazon Backup in Amazon Web Services China

Amazon Backup is a fully managed backup service that makes it easy to centralize and automate the backup of data across Amazon services in the cloud as well as on premises.

Region availability

Amazon Backup is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Backup differs

The following differences apply to Amazon Backup:

- Cross Region Backups are only allowed between the China (Beijing) Region and the China (Ningxia) Region.

Documentation

- Amazon Backup Developer Guide

Amazon Bedrock AgentCore in Amazon Web Services China

Amazon Bedrock AgentCore is the platform to build and connect agents. It helps engineers ship agents fast with any framework and any model, and connect them to enterprise systems and tools, with security enforced at the infrastructure layer that agents can't bypass.

Region availability

Amazon Bedrock AgentCore is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Bedrock AgentCore differs

In the China (Beijing) and China (Ningxia) Regions, Amazon Bedrock AgentCore offers the following components: Runtime, Code Interpreter, Browser, Identity, Gateway, and Observability. The differences below apply to these components.

Capabilities not available in the China Regions

The following AgentCore capabilities are not available in the China (Beijing) and China (Ningxia) Regions:

- Memory
- Policy
- Harness
- Payments
- Knowledge Bases
- Evaluations
- Optimizations
- Registry

Identity

- Private identity providers (IdP) — Private IdP configurations are not available in the China (Beijing) and China (Ningxia) Regions.

- OAuth 2.0 providers — The following built-in OAuth providers are not available in the China (Beijing) and China (Ningxia) Regions: GitHub, Google, Facebook, X, Reddit, Twitch, Dropbox, CyberArk.

Runtime

- Managed EC2 instance capacity provider — The Managed EC2 instance capacity provider is not available in the China (Beijing) and China (Ningxia) Regions. Only the MicroVM capacity provider is supported.
- Bring-your-own file system (Amazon S3 Files) — The Amazon S3 Files option for bring-your-own file system is not available in the China (Beijing) and China (Ningxia) Regions.
- Amazon Cognito inbound authorization — Cognito user pool option is not supported

Tools

- Bring-your-own file system (Amazon S3 Files) — The Amazon S3 Files option for bring-your-own file system is not available in the China (Beijing) and China (Ningxia) Regions.
- Web Bot Auth (Signer) — Web Bot Auth (Signer) is not available in the China (Beijing) and China (Ningxia) Regions.

Gateway

- Semantic search — Semantic search for tool discovery is not available in the China (Beijing) and China (Ningxia) Regions. Tool listing and tool invocation are unaffected.
- Amazon Cognito authorizer — A CUSTOM_JWT authorizer cannot use an Amazon Cognito user pool in the China (Beijing) and China (Ningxia) Regions. Use another OpenID Connect (OIDC)-compliant identity provider. The console Amazon Cognito quick-setup path is not offered.
- Inbound authorization options — The "No authorization" inbound authorization option is not available in the China (Beijing) and China (Ningxia) Regions. All gateways must use CUSTOM_JWT or AWS_IAM inbound authorization.
- Inference targets — Inference targets are not available in the China (Beijing) and China (Ningxia) Regions.
- Connectors — The console connector catalog (for example, Slack, Jira, Salesforce, and Microsoft) is not available in the China (Beijing) and China (Ningxia) Regions. Most connectors call third-party SaaS endpoints located outside of China.

- Amazon Web Services WAF integration — Amazon WAF integration for the AgentCore Gateway resource type is not available in the China (Beijing) and China (Ningxia) Regions.
- Gateway rules — Gateway rules are not available in the China (Beijing) and China (Ningxia) Regions.
- ConfigBundle A/B testing — A/B testing for ConfigBundle is not available in the China (Beijing) and China (Ningxia) Regions.

Documentation site navigation

- Console, GitHub, and boto3 quick-access tiles — On the AgentCore documentation landing page, the Console, GitHub, and boto3 quick-access tiles are not available in the China (Beijing) and China (Ningxia) Regions. These tiles link to resources that are not applicable in the China Regions.

Documentation

- Amazon Bedrock AgentCore Developer Guide

Amazon Batch in Amazon Web Services China

Amazon Batch enables you to run batch computing workloads on the Amazon Web Services Cloud. Batch computing is a common way for developers, scientists, and engineers to access large amounts of compute resources, and Amazon Batch removes the undifferentiated heavy lifting of configuring and managing the required infrastructure, similar to traditional batch computing software.

Region availability

Amazon Batch is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Batch differs

- Elastic Fabric Adapter (EFA) is not available.

Documentation

- Amazon Batch User Guide
- Amazon Batch API Reference

Amazon Billing and Cost Management in Amazon Web Services China

Amazon Billing and Cost Management is a web service that provides features that helps you monitor your costs and pay your bill. Amazon Web Services China bills your account for usage, which ensures that you pay only for what you use.

Region availability

Amazon Billing and Cost Management is available in the following regions in China:

- China (Ningxia) Region

How Amazon Billing and Cost Management differs

The following differences apply to Amazon Billing and Cost Management:

- For detailed information on Amazon Billing and Cost Management for Amazon Web Services China, see Billing and Payment

Documentation

- Amazon Billing User Guide
- Amazon Cost Management User Guide
- Cost and Usage Reports User Guide
- Amazon Billing and Cost Management API Reference

Amazon Certificate Manager in Amazon Web Services China

Amazon Certificate Manager (ACM) makes it easy to provision, manage, and deploy SSL/TLS certificates on Amazon managed resources.

Region availability

Amazon Certificate Manager is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Certificate Manager differs

There are no differences for this service.

Documentation

- Amazon Certificate Manager User Guide
- Amazon Certificate Manager API Reference

Amazon Cloud Control API in Amazon Web Services China

Amazon Cloud Control API (Cloud Control API) is a set of common application programming interfaces (APIs) that make it easy for developers and partners to manage the lifecycle of Amazon services. Cloud Control API provides five operations for developers to create, read, update, delete, and list (CRUDL) their cloud infrastructure.

Region availability

Cloud Control API is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Cloud Control API differs

There are no differences for this service.

Documentation

- Amazon Cloud Control API User Guide

Amazon Cloud Map in Amazon Web Services China

Amazon Cloud Map lets you name and discover your cloud resources.

Region availability

Amazon Cloud Map is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Cloud Map differs

There are no differences for this service.

Documentation

- Amazon Cloud Map Developer Guide
- Amazon Cloud Map API Reference

Amazon CloudFormation in Amazon Web Services China

Amazon CloudFormation enables you to create and provision Amazon Web Services China infrastructure deployments predictably and repeatedly. It helps you leverage Amazon Web Services China products such as Amazon Elastic Compute Cloud, Amazon Elastic Block Store, Amazon Simple Notification Service, Elastic Load Balancing, and Amazon EC2 Auto Scaling to build highly reliable, highly scalable, cost-effective applications without worrying about creating and configuring the underlying Amazon Web Services China infrastructure. Amazon CloudFormation

enables you to use a template file to create and delete a collection of resources together as a single unit (a stack).

Region availability

Amazon CloudFormation is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon CloudFormation differs

The following differences apply to Amazon CloudFormation:

- Amazon Web Services China supports a subset of Amazon services and a single Availability Zone and Region; you may need to modify Amazon CloudFormation sample templates and template snippets to conform to these differences.
- Amazon CloudFormation doesn't support the AWS::Include transform.
- Amazon CloudFormation doesn't support the following resources:
  - `AWS::Cognito::IdentityPool`
  - `AWS::Cognito::IdentityPoolRoleAttachment`
  - `AWS::Cognito::UserPool`
  - `AWS::Cognito::UserPoolClient`
  - `AWS::Cognito::UserPoolGroup`
  - `AWS::Cognito::UserPoolUser`
  - `AWS::Cognito::UserPoolUserToGroupAttachment`
  - `AWS::DAX::Cluster`
  - `AWS::DAX::ParameterGroup`
  - `AWS::WAFRegional::XssMatchSettitem`
  - `AWS::DMS::Certificate`
  - `AWS::DMS::Endpoint`
  - `AWS::DMS::EventSubscription`
  - `AWS::DMS::ReplicationInstance`
  - `AWS::DMS::ReplicationSubnetGroup`

- AWS::DMS::ReplicationTask
- AWS::KinesisAnalytics::Application
- AWS::KinesisAnalytics::ApplicationOutput
- AWS::KinesisAnalytics::ApplicationReferenceDataSource
- AWS::WAFRegional::ByteMatchSet
- AWS::WAFRegional::IPSet
- AWS::WAFRegional::Rule
- AWS::WAFRegional::SizeConstraintSet
- AWS::WAFRegional::SqlInjectionMatchSet
- AWS::WAFRegional::WebACL
- AWS::WAFRegional::WebACLAssociation
- AWS::WAFRegional::XssMatchSet

Documentation

- Amazon CloudFormation Documentation

Amazon CloudFront in Amazon Web Services China

Amazon CloudFront is a content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers, with low latency and high transfer speeds, in a developer-friendly environment. When a user requests content that you're serving with CloudFront, the request is routed to the edge location that provides the lowest latency (time delay), so that content is delivered with the best possible performance.

CloudFront China uses a network of four edge locations in the following cities: Beijing, Shanghai, Zhongwei, and Shenzhen.

Region availability

Amazon CloudFront is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How CloudFront differs

The following differences apply to Amazon CloudFront:

- You can't use the default CloudFront domain, *.cloudfront.cn, to serve content. You must add an alternate domain name, also known as a CNAME, to your CloudFront distributions, and then use that domain name in the URLs for your content. You also must have an ICP registration. In addition, just as with the global CloudFront service, to serve content over HTTPS, you must use an SSL/TLS certificate with your alternate domain name.

  Amazon CloudFront in the China Regions currently does not support Amazon Certificate Manager. You must get an SSL/TLS certificate from a different third-party certificate authority (CA) and then upload it to the IAM certificate store. For more information, see Importing an SSL/TLS Certificate in the *Amazon CloudFront Developer Guide*.
- By using the CloudFront API, you can view the ICP recordal status for each CNAME in a CloudFront distribution: APPROVED, SUSPENDED, or PENDING. The ICP recordal status is also displayed in the console for Amazon Web Services China customers. For more information, see CNAME Status (General Tab) in the Amazon CloudFront Developer Guide and AliasICPRecordal in the Amazon CloudFront API Reference.
- Console workflows with preconfigured settings for standard distributions are not available.
- Dedicated IP addresses are not available for custom SSL certificates.
- IPv6 is not available.
- Regional edge caches (RECs) are not available.
- Lambda@Edge is not available. Some rules can be implemented on Application Load Balancer or API Gateway origin.
- Amazon WAF, a web application firewall service, is not available for CloudFront. Amazon WAF can be used on the origin (Application Load Balancer or API Gateway). For rules that should act on the user IP, such as rate limits, configure it to get the IP from the X-Forwarded-For header sent by CloudFront..
- If you need to restore ACL permissions for the `awslogsdelivery` account so that CloudFront can write access logs to your Amazon S3 bucket, you must provide the following canonical name for the account: `a52cb28745c0c06e84ec548334e44bfa7fc2a85c54af20cd59e4969344b7af56`
- When you use an Amazon S3 bucket as a CloudFront origin, use the following configuration:
  - If the S3 bucket is located inside the China Regions, use one of the following formats.

    - If your S3 bucket is not a website endpoint, use the following format: `bucket-name .s3. region .amazonaws.com.cn`.
    - If your S3 bucket is a website endpoint, use the following format: `bucket-name .s3-website. region .amazonaws.com.cn`.
  - When you specify Amazon S3 origins, `region` can be one of the following:
    - For the China (Beijing) Region: `cn-north-1`.
    - For the China (Ningxia) Region: `cn-northwest-1`.
  - If the S3 bucket is located outside of the China Regions, use the following format when you add the bucket as a CloudFront origin: `bucket-name .s3-website. region .amazonaws.com.cn`. For more information and guidance, follow the recommendations in Using Amazon S3 Buckets Configured as Website Endpoints for Your Origin.
- For Amazon Web Services China customers, CloudFront does not have root keys and does not support root access.
- Cache policies and origin request policies are not available. Legacy cache settings can be used instead.
- Origin Shield is not available.
- CloudFront Functions are not available.
- Legacy clients that don't support server name indication (SNI) are not available.
- Associate-alias and List-conflicting-aliases API are not available.
- Real-time logs are not available.
- Standard logging (v2) is not available. You can use standard logging (legacy) with an S3 bucket.
- Anycast static IP lists are not available.
- VPC origins are not available.
- Media quality-aware resiliency (MQAR) is not available.
- gRPC is not available.
- Multi-tenant distributions and distribution tenants are not available.
- Brotli compression is not available. Gzip compression can be used.
- Origin access control (OAC) is not available. Origin Access Identity (OAI) can be used.
- MediaStore is not available.
- HTTP/3 is not available.

- Websocket is not available.
- CloudFront managed prefix list is not available. CloudFront IP addresses can be allowlisted in Security Groups associated with resources inside Amazon VPC. For more details about China CloudFront ip addresses, contact Amazon Web Services Support.

Documentation

- Amazon CloudFront Developer Guide
- Amazon CloudFront API Reference

Amazon CloudTrail in Amazon Web Services China

With Amazon CloudTrail, you can monitor your Amazon deployments in the cloud by getting a history of Amazon API calls for your account, including API calls made via the Amazon Web Services Management Console, the Amazon SDKs, the command line tools, and higher-level Amazon services. You can also identify which users and accounts called Amazon APIs for services that support CloudTrail, the source IP address the calls were made from, and when the calls occurred. You can integrate CloudTrail into applications using the API, automate trail creation for your organization, check the status of your trails, and control how administrators turn CloudTrail logging on and off.

Region availability

Amazon CloudTrail is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon CloudTrail differs

The following differences apply to Amazon CloudTrail:

- As of November 22, 2021, Amazon CloudTrail changed how trails capture Amazon CloudFront events. Now, Amazon CloudFront events are available only in the Region where the event was processed, the China (Ningxia) Region, cn-northwest-1. For trails monitoring global service events, be sure to convert single-Region trails in China (Beijing) Region, cn-north-1, to

multi-Region trails, to include events from China (Ningxia) Region, cn-northwest-1. For more information, see Converting a trail that applies to one Region to apply to all Regions.

In contrast, the **Event history** in the CloudTrail console and the `aws cloudtrail lookup-events` command will show Amazon CloudFront events in the Region where they occurred.

- **IPv6** is supported.
- **VPC endpoints** are supported.
- CloudTrail Lake is not currently available in China regions.
- The option to add an Amazon Organizations delegated administrator using the console in the Amazon China Regions is not available. To add a delegated administrator, use the `aws cloudtrail register-organization-delegated-admin` command.
- CloudTrail network activity events are not available.
- CloudTrail enriched events are not available.

Documentation

- Amazon CloudTrail User Guide
- Amazon CloudTrail API Reference

Amazon CloudWatch in Amazon Web Services China

Amazon CloudWatch monitors your Amazon Web Services China resources and the applications you run on Amazon Web Services China in real time. You can use CloudWatch to collect and track metrics, which are the variables you want to measure for your resources and applications. CloudWatch alarms send notifications or automatically make changes to the resources you are monitoring based on rules that you define.

Amazon CloudWatch Events delivers a near real-time stream of system events that describe changes in Amazon Web Services (Amazon) resources. Using simple rules that you can quickly set up, you can match events and route them to one or more target functions or streams.

You can use Amazon CloudWatch Logs to monitor, store, and access your log files from Amazon Elastic Compute Cloud (Amazon EC2) instances, Amazon CloudTrail, and other sources.

Region availability

Amazon CloudWatch is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How CloudWatch differs

The following differences apply to Amazon CloudWatch:

- CloudWatch metrics and alerts are not currently available for the following services:
  - Amazon Billing and Cost Management
  - Amazon ElastiCache
  - Amazon OpsWorks
  - Amazon Redshift
  - Amazon Route 53
- The cross-account, cross-Region CloudWatch functionality is not available.
- The CloudWatch Monitoring scripts for Windows are not available in the China (Beijing) and China (Ningxia) Regions. However, that functionality is now available through the EC2Config and CloudWatch Logs services.
- Dashboard sharing is not available.

Documentation

Amazon CloudWatch

- Amazon CloudWatch User Guide
- Amazon CloudWatch API Reference

Amazon CloudWatch Events

- Amazon EventBridge User Guide
- Amazon EventBridge API Reference

Amazon CloudWatch Logs

- Amazon CloudWatch Logs User Guide
- Amazon CloudWatch Logs API Reference

Amazon CodeBuild in Amazon Web Services China

Amazon CodeBuild is a fully managed build service that compiles source code, runs tests, and produces software packages that are ready to deploy. With Amazon CodeBuild, you don't need to provision, manage, and scale your own build servers. Amazon CodeBuild scales continuously and processes multiple builds concurrently, so your builds are not left waiting in a queue. You can get started quickly by using prepackaged build environments, or you can create custom build environments that use your own build tools. With Amazon CodeBuild, you are charged by the minute for the compute resources you use.

Region availability

Amazon CodeBuild is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon CodeBuild differs

The following differences apply to Amazon CodeBuild:

- Amazon CodePipeline is not available in the China (Beijing) and China (Ningxia) Regions. Therefore, integration with Amazon CodePipeline is not available.

Documentation

- Amazon CodeBuild

Amazon CodeCommit in Amazon Web Services China

Amazon CodeCommit is a version control service that enables you to privately store and manage Git repositories in the Amazon cloud.

Region availability

Amazon CodeCommit is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon CodeCommit differs

- You cannot create notification rules for CodeCommit in the China (Beijing) and China (Ningxia) Regions. Amazon CodeStar Notifications is not available in the China (Beijing) and China (Ningxia) Regions.

Documentation

- Amazon CodeCommit User Guide
- Amazon CodeCommit API Reference

Amazon CodeDeploy in Amazon Web Services China

Amazon CodeDeploy is a service that automates code deployments to any instance, including Amazon EC2 instances and instances running on-premises. Amazon CodeDeploy makes it easier for you to rapidly release new features, helps you avoid downtime during application deployment, and handles the complexity of updating your applications. You can use Amazon CodeDeploy to automate software deployments, eliminating the need for error-prone manual operations, and the service scales with your infrastructure so you can easily deploy to one instance or thousands.

Region availability

Amazon CodeDeploy is available in the following regions in China:

- China (Beijing) Region

- China (Ningxia) Region

How Amazon CodeDeploy differs

There are no differences for this service.

Documentation

- Amazon CodeDeploy User Guide
- Amazon CodeDeploy API Reference

Amazon CodePipeline in Amazon Web Services China

Amazon CodePipeline (CodePipeline) is a continuous delivery service you can use to model, visualize, and automate the steps required to release your software. You can quickly model and configure the different stages of a software release process. CodePipeline automates the steps required to release your software changes continuously.

Region availability

CodePipeline is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon CodePipeline differs

The following differences apply to Amazon CodePipeline:

- CodePipeline cross-region actions are only available between the China (Beijing) and China (Ningxia) Regions.
- You cannot create notification rules for CodePipeline in the China (Beijing) and China (Ningxia) Regions. Amazon CodeStar Notifications is not available in the China (Beijing) and China (Ningxia) Regions.
- The following actions/provider types are not available:

- `CodeStarSourceConnection` source action for Bitbucket, GitHub, and GitHub Enterprise Server connections
- Amazon CloudFormation StackSets deploy action
- Amazon Device Farm test action
- Amazon Step Functions invoke action
- GitHub version 1 source action
- Jenkins build action
- Snyk invoke action

Documentation

- Amazon CodePipeline User Guide
- Amazon CodePipeline API Reference

Amazon Cognito in Amazon Web Services China

Amazon Cognito lets you easily add user sign-up and sign-in and manage permissions for your mobile and web apps. You can create your own user directory within Amazon Cognito. You can also choose to authenticate users through social identity providers such as Facebook, Twitter, or Amazon; with SAML identity solutions; or by using your own identity system. In addition, Amazon Cognito enables you to save data locally on users' devices, allowing your applications to work even when the devices are offline. You can then synchronize data across users' devices so that their app experience remains consistent regardless of the device they use.

Region availability

Amazon Cognito is available in the following regions in China:

- China (Beijing) Region

How Amazon Cognito differs

The following differences apply to Amazon Cognito:

- Amazon Cognito User Pools are not currently available in the China (Beijing) Region.

- Amazon Cognito Federated Identities do not currently support Facebook or Twitter as identity providers in the China (Beijing) Region.
- In the China (Beijing) Region, identity pool tokens are issued by https://cognito-identity.cn-north-1.amazonaws.com.cn/ instead of https://cognito-identity.amazonaws.com/.
- When you are using Developer Authenticated Identities, https://cognito-identity.cn-north-1.amazonaws.com.cn/ is the key to the login map for GetCredentialsForIdentity.

Documentation

- Amazon Cognito Developer Guide
- Amazon Cognito API Reference
- Amazon Cognito user pools API Reference
- Amazon Cognito Federated Identities API Reference

Amazon Compute Optimizer in Amazon Web Services China

Amazon Compute Optimizer recommends optimal Amazon Web Services compute resources for your workloads. It can help you reduce costs and improve performance, by using machine learning to analyze your historical utilization metrics. Compute Optimizer helps you choose the optimal resource configuration based on your utilization data.

Region availability

Amazon Compute Optimizer is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Compute Optimizer differs

The following differences apply to Amazon Compute Optimizer:

- The Delegated administrator feature is unavailable in the China (Beijing) and China (Ningxia) Regions.

- The External metrics ingestion feature is unavailable in the China (Beijing) and China (Ningxia) Regions.
- The HDD (`st1` and `sc1`) and the Provisioned IOPS SSD `io2 Block Express` EBS volume types aren't supported in the China (Beijing) and China (Ningxia) Regions.
- The C6in, C7a, M6idn, M6in, R6idn, and R6in Amazon EC2 instance types aren't supported in the China (Beijing) and China (Ningxia) Regions.
- The Savings estimation mode feature is unavailable in the China (Beijing) and China (Ningxia) Regions.
- The Rightsizing recommendation preferences feature is unavailable in the China (Beijing) and China (Ningxia) Regions.
- Recommendations for RDS databases aren't supported in the China (Beijing) and China (Ningxia) Regions.
- Recommendations for idle resources aren't supported in the China (Beijing) and China (Ningxia) Regions.
- Recommendations for EC2 Auto Scaling groups that have mixed instance types, scaling policies, or both aren't supported in the China (Beijing) and China (Ningxia) Regions.

Documentation

- User Guide
- API Reference

Amazon Config in Amazon Web Services China

Amazon Config provides a detailed view of the configuration of Amazon resources in your Amazon Web Services account. This includes how the resources are related to one another and how they were configured in the past so that you can see how the configurations and relationships change over time.

An Amazon *resource* is an entity that you can work with in Amazon, such as an Amazon Elastic Compute Cloud (Amazon EC2) instance, Amazon Identity and Access Management (IAM) user, or an Amazon Simple Storage Service Amazon S3) bucket.

With Amazon Config, you can do the following:

- Evaluate your Amazon resource configurations for desired settings.
- Get a snapshot of the current configurations of the supported resources that are associated with your Amazon Web Services account.
- Retrieve configurations of one or more resources that exist in your account.
- Retrieve historical configurations of one or more resources.
- Receive a notification whenever a resource is created, modified, or deleted.
- View relationships between resources. For example, you might want to find all resources that use a particular security group.

Region availability

Amazon Config is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Config differs

- For a list of Amazon resource types supported in the China (Beijing) and China (Ningxia) Regions, see Resource Coverage by Region Availability.
- Amazon Config recording of third-party resources or custom resource types is not available in the China (Beijing) and China (Ningxia) Regions.
- For a list of rules supported in the China (Beijing) Region, see List of Amazon Config Managed Rules by Region Availability | China (Beijing).
- For a list of rules supported in the China (Ningxia) Region, see List of Amazon Config Managed Rules by Region Availability | China (Ningxia).

Documentation

- Amazon Config Developer Guide
- Amazon Config API Reference

Amazon Data Firehose in Amazon Web Services China

Amazon Data Firehose is part of the Kinesis streaming data platform. With Firehose, you don't need to write applications or manage resources. You configure your data procedures to send data to Firehose, and it automatically delivers the data to the destination that you specified. You can also configure Firehose to transform your data before delivering it.

Region availability

Amazon Data Firehose is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Firehose differs

The following differences apply to Amazon Data Firehose:

- There are no implementation differences or differences in feature availability for Firehose between global and China Regions.

Documentation

- Amazon Data Firehose Developer Guide
- Amazon Data Firehose API Reference

Amazon Database Migration Service in Amazon Web Services China

Amazon Database Migration Service (Amazon DMS) is a cloud service that makes it easy to migrate relational databases, data warehouses, NoSQL databases, and other types of data stores. You can use Amazon DMS to migrate your data into the Amazon Web Services Cloud, between on-premises instances, or between combinations of cloud and on-premises setups.

Region availability

Amazon Database Migration Service is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Database Migration Service differs

There are no differences for this service.

Documentation

- Amazon Database Migration Service User Guide

Amazon DataSync in Amazon Web Services China

Amazon DataSync is an online data transfer service that simplifies, automates, and accelerates moving data between storage systems and services.

Region availability

DataSync is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon DataSync differs

The following differences apply to Amazon DataSync:

- Transferring data across Amazon Web Services Regions works only when transferring between the China (Beijing) Region and China (Ningxia) Region.
- Connecting your DataSync agent to Amazon Web Services using Federal Information Processing Standard (FIPS) endpoints isn't available. You can connect your agent using virtual private cloud (VPC) endpoints or public endpoints.
- You can't transfer data to or from an Amazon Snowball Edge device because it isn't available in these Regions.
- You can't transfer data between Amazon S3 and Amazon S3 on Outposts because S3 on Outposts isn't available in these Regions.

Documentation

- Amazon DataSync User Guide

Amazon DCV in Amazon Web Services China

Amazon DCV is a remote visualization technology that enables users to securely connect to graphic-intensive 3D applications hosted on a remote, high-performance server. With Amazon DCV, you can make a server's high-performance graphics processing capabilities available to multiple remote users by creating secure client sessions.

Region availability

Amazon DCV is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon DCV differs

There are no differences for this service.

Documentation

- Amazon DCV Administrator Guide
- Amazon DCV User Guide

Amazon Deep Learning AMIs in Amazon Web Services China

The Amazon Deep Learning AMIs (DLAMI) is your one-stop shop for deep learning in the Cloud. This customized machine instance is available in most Amazon Elastic Compute Cloud regions for a variety of instance types, from a small CPU-only instance to the latest high-powered multi-GPU instances. It comes preconfigured with NVIDIA CUDA and NVIDIA cuDNN and the latest releases of the most popular deep learning frameworks.

How Amazon Deep Learning AMIs differ

The following differences apply to Amazon Deep Learning AMIs:

- The Amazon Web Services Marketplace is not available in China Regions.
- You must launch Deep Learning AMIs through the EC2 QuickStart tab. Because the Amazon Web Services Marketplace is not available, all eight DLAMIs are available on the QuickStart tab. In other Amazon Regions, only four of the eight DLAMIs are available there.
- Windows AMIs are not available.
- The instance selection guide recommends using the latest generation of EC2 instance types (C5 and P3), but these are not available in the China Regions. We recommend using the previous generation or instance types: C4 or P2.

Documentation

- Amazon Deep Learning AMIs Developer Guide

Amazon SageMaker Deep Learning Containers in Amazon Web Services China

Amazon Deep Learning Containers (Deep Learning Containers) are a set of Docker images for training and serving models in TensorFlow, TensorFlow 2, PyTorch, and MXNet. Deep Learning Containers provide optimized environments with TensorFlow and MXNet, Nvidia CUDA (for GPU instances), and Intel MKL (for CPU instances) libraries and are available in the Amazon Elastic Container Registry (Amazon ECR).

Region availability

Amazon SageMaker Deep Learning Containers is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon SageMaker Deep Learning Containers differs

- Elastic Inference Deep Learning Container images are not available in the China (Beijing) and China (Ningxia) Regions.
- Deep Learning Containers images are published to private Amazon ECR registries. The registry account differs by Region and image type. Use the following information to authenticate to the applicable registry and construct image URIs:
  - Registry accounts:
    - Deep Learning Containers framework images (for example, `base` and vLLM):
      - China (Beijing) Region - `727897471807.dkr.ecr.cn-north-1.amazonaws.com.cn`
      - China (Ningxia) Region - `727897471807.dkr.ecr.cn-northwest-1.amazonaws.com.cn`
    - `sagemaker-scikit-learn` and `sagemaker-xgboost`:
      - China (Beijing) Region - `450853457545.dkr.ecr.cn-north-1.amazonaws.com.cn`
      - China (Ningxia) Region - `451049120500.dkr.ecr.cn-northwest-1.amazonaws.com.cn`
  - ECR login - authenticate to the applicable account from the preceding list. For example, for the framework account in the China (Beijing) Region:

    ```
    aws ecr get-login-password --region cn-north-1 | docker login --username AWS --password-stdin 727897471807.dkr.ecr.cn-north-1.amazonaws.com.cn
    ```

  - Image URI format:

    ```
    <ACCOUNT>.dkr.ecr.<REGION>.amazonaws.com.cn/<REPOSITORY>:<TAG>
    ```

    For example, the `sagemaker-xgboost` repository with the tag `3.0-5` in the China (Beijing) Region:

    ```
    450853457545.dkr.ecr.cn-north-1.amazonaws.com.cn/sagemaker-xgboost:3.0-5
    ```

  - Available tags - only mutable tags are available in these Regions. A mutable tag can be repointed to a newer image when a version is patched or updated, so pulling the same tag at a later date may return different image content. Immutable tags, which pin to a fixed, unchanging build, are generally not published, apart from a few exceptions required by

specific consumers (for example, the vLLM `-v1.x` SageMaker AI tags). To illustrate the mutable-tag scheme:

- Ubuntu-based vLLM - available tags: `0.25.1-gpu-py312-cu130-ubuntu22.04-ec2`, `0.25.1-gpu-py312-ec2`. Immutable tags such as `0.25.1-gpu-py312-cu130-ubuntu22.04-ec2-v1.2-2026-07-20-21-30-05` and `0.25-gpu-py312-cu130-ubuntu22.04-ec2-v1` are not available.
- AL2023-based vLLM - available tags: `server-cuda-v2.1`, `server-cuda-v2`, `server-cuda`. Immutable tags such as `server-cuda-v2.1.3` are not available.
- For the full, current list of tags in a repository, use the standard Amazon ECR CLI commands (`aws ecr list-images` / `aws ecr describe-images`) against the applicable Region.

- Not all framework versions are actively patched. Versions follow the standard DLC Support Policy - use a currently supported version to ensure you continue receiving security patches.

Documentation

- Developer Guide

Amazon Direct Connect in Amazon Web Services China

Amazon Direct Connect links your internal network to an Amazon Direct Connect location over a standard 1 gigabit, 10 gigabit, or 100 gigabit Ethernet fiber-optic cable. One end of the cable is connected to your router, the other to an Amazon Direct Connect router. With this connection in place, you can create virtual interfaces directly to the Amazon Web Services Cloud and Amazon Virtual Private Cloud, bypassing Internet service providers in your network path.

Region availability

Amazon Direct Connect is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Direct Connect differs

The following differences apply to Amazon Direct Connect:

- MACsec encryption is not available in China.
- Amazon Direct Connect gateways can only interface with Amazon Virtual Private Clouds or Amazon Transit Gateways in the Amazon Web Services China Regions.

Documentation

- Amazon Direct Connect User Guide
- Amazon Direct Connect API Reference

Amazon Directory Service in Amazon Web Services China

Amazon Directory Service provides multiple ways to use Microsoft Active Directory (AD) with other Amazon services. Directories store information about users, groups, and devices, and administrators use them to manage access to information and resources. Amazon Directory Service provides multiple directory choices for customers who want to use existing Microsoft AD or Lightweight Directory Access Protocol (LDAP)–aware applications in the cloud. It also offers those same choices to developers who need a directory to manage users, groups, devices, and access.

Region availability

Amazon Directory Service is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Directory Service differs

The following differences apply to Amazon Directory Service:

- Only the Amazon Managed Microsoft AD directory type and the AD Connector directory type are supported by Amazon Directory Service in the China (Beijing) and China (Ningxia) Regions.
- The following directory types are not currently supported in the China (Beijing) and China (Ningxia) Regions:
  - Simple AD
  - Amazon Cloud Directory

- The following Amazon Managed Microsoft AD features are not currently supported in both the China (Beijing) and China (Ningxia) Regions:
  - Mapping users to IAM roles for access to the Amazon Web Services Management Console
  - Amazon Managed Microsoft AD (Hybrid Edition)
- The following Amazon Managed Microsoft AD features are not currently supported in the China (Beijing) Region:
  - Multi-factor authentication (MFA)
- The following Amazon services are not currently supported by Amazon Directory Service in both the China (Beijing) and China (Ningxia) Regions:
  - WorkDocs
  - Amazon WorkMail
  - Quick
  - Amazon Chime
  - Connect Customer
  - Amazon Web Services Management Console
- The following Amazon services are not currently supported by Amazon Directory Service in the China (Beijing) Region:
  - WorkSpaces
- Amazon Resource Names (ARNs) and endpoints have different values in the China (Beijing) and China (Ningxia) Regions.
- Only signature version 4 signing is supported in the China (Beijing) and China (Ningxia) Regions.

Documentation

- Amazon Directory Service Administration Guide
- Amazon Directory Service API Reference

Amazon DocumentDB in Amazon Web Services China

Amazon DocumentDB (with MongoDB compatibility) is a fast, reliable, and fully managed database service that makes it easy for you to set up, operate, and scale MongoDB-compatible databases.

Region availability

Amazon DocumentDB is available in the following regions in China:

- China (Ningxia) Region

How Amazon DocumentDB differs

The following differences apply to Amazon DocumentDB:

- Copying cluster snapshots from other Amazon Regions to the China (Ningxia) Region is not available.
- Copying cluster snapshots from the China (Ningxia) Region to other Amazon Regions is not available.
- Amazon DocumentDB elastic clusters are not available.
- Amazon DocumentDB global clusters are not available.
- The db.r8g and db.r4 instance classes are not available.
- The db.r6gd instance class is available in the China (Beijing) Region only and is not available in the China (Ningxia) Region.

Documentation

- Amazon DocumentDB

Amazon DynamoDB in Amazon Web Services China

Amazon DynamoDB is a fully managed NoSQL database service that provides fast and predictable performance with seamless scalability. You can use DynamoDB to create database tables that store and retrieve any amount of data and serve any level of request traffic. Amazon DynamoDB automatically distributes your table's data and traffic across multiple servers to handle your specified request capacity and data storage requirements while maintaining consistent, fast performance. DynamoDB stores all data items on solid-state disks (SSDs).

Region availability

Amazon DynamoDB is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon DynamoDB differs

The following differences apply to Amazon DynamoDB:

- Global Tables - Multi-Region Strong Consistency is not available.

Documentation

- Amazon DynamoDB Developer Guide
- Amazon DynamoDB API Reference
- Amazon DynamoDB Streams API Reference

Amazon Elastic Block Store (Amazon EBS) in Amazon Web Services China

Amazon Elastic Block Store (Amazon EBS) provides persistent block storage for use with Amazon EC2 instances. Each Amazon EBS volume is automatically replicated within its Availability Zone to protect you from component failure, providing high availability and durability. Amazon EBS volumes provide the consistent and low-latency performance needed to run your workloads. With Amazon EBS, you can scale your usage up or down within minutes – all while paying a low price for only what you provision.

Region availability

Amazon Elastic Block Store (EBS) is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Elastic Block Store (EBS) differs

- Amazon Fault Injection Service actions for Amazon EBS volumes are not available.

- Amazon EBS volume recommendations are not available.
- Configurable Amazon EC2 instance bandwidth is not available.
- Snapshot copy between the China Regions and other Amazon Regions is not available. You can copy snapshots between the China Regions.
- There are no differences for the Amazon Web Services China implementation of Amazon Data Lifecycle Manager.
- There are no differences for the Amazon Web Services China implementation of EBS direct APIs.

Documentation

- Amazon EBS Documentation

Amazon Elastic Compute Cloud (Amazon EC2) in Amazon Web Services China

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable compute capacity in the cloud. It's designed to make web-scale computing easier for developers. Amazon EC2 presents a true virtual computing environment, allowing you to use web service interfaces to launch instances with a variety of operating systems, load them with your custom application environment, manage your network's access permissions, and run your image using as many or few systems as you want to.

Region availability

Amazon Elastic Compute Cloud is available in the following Regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon EC2 differs

The following differences apply to Amazon EC2:

General differences

- Starter accounts—For customers with an Internal Access Account, Amazon EC2 public Internet ports are blocked. Internal ports remain available. For more information, see Signup, Accounts, and Credentials.

Billing and purchasing differences

- Reserved Instances:
  - Reserved Instance Marketplace is not available.
  - Standard Reserved Instances are not available in three-year terms.
  - Reserved Instance discount pricing tiers—For more information, see Reserved Instance discount pricing tiers.

Total list value of Reserved Instances	Upfront discount	Hourly discount
Less than ¥3200000	0%	0%
¥3200000 to ¥25000000	5%	5%
¥25000000 to ¥64000000	10%	10%
More than ¥64000000	Contact us	Contact us

- Spot Instances:
  - Spot Instance requests—The **AWSServiceRoleForEC2Spot** service-linked role is not created for you automatically. Create a service-linked role with this name, using `spot.amazonaws.com` as the service name and **AWSEC2SpotServiceRolePolicy** as the policy.
  - Spot Instance data feed is not available.

Fleet differences

- EC2 Fleet can't launch On-Demand Instances into targeted Capacity Reservations.

Image differences

- EC2 AMI Tools—The China (Beijing) and China (Ningxia) Regions use a non-default public key certificate to encrypt Amazon Machine Image (AMI) manifests. The `ec2-bundle-image`, `ec2-bundle-vol`, `ec2-migrate-bundle`, and `ec2-migrate-manifest` commands require the --ec2cert $EC2_AMITOOL_HOME/etc/ec2/amitools/cert-ec2-cn-north-1.pem option in the China (Beijing) Region, and the --ec2cert $EC2_AMITOOL_HOME/etc/ec2/amitools/cert-ec2-cn-northwest-1.pem option in the China (Ningxia) Region.
- The `lastLaunchedTime` AMI attribute is not available.
- Cross-region copy operations are supported only between the China (Beijing) and China (Ningxia) Regions.

Instance differences

- Only some Amazon EC2 instance types are available. For lists of available instance types by Region, see Amazon EC2 instance types by Region.
- Mac instances are not available.
- On-Demand Instance hibernation is not available.
- Amazon EC2 instance topology is not available.
- Amazon Systems Manager for Microsoft System Center Virtual Machine Manager (SCVMM) is not available.
- Systems Manager Automation—The `aws:copyImage` action is not available.
- Amazon Nitro Enclaves is not available.
- Credential Guard is not available.
- Nested virtualization is not available.

Networking differences

- Bring your own IP address ranges (BYOIP) is not available.
- ENA Express is not available.
- By default, enhanced networking is not enabled on Windows Server 2012 R2 AMIs. For more information, see Enhanced networking on Amazon EC2 instances.

How VM Import/Export differs

VM Import/Export is different for China Regions in the following ways:

- TPM and Secure Boot are not available.
- VM Import:
  - Windows 11 is not available.
  - Windows Server 2022 is not available.
- VM Export: The Amazon S3 bucket for the destination image must exist and must have `WRITE` and READ_ACP permissions granted to the China (Beijing) Region account with the following canonical ID: 834bafd86b15b6ca71074df0fd1f93d234b9d5e848a2cb31f880c149003ce36f.

Documentation

- Amazon Elastic Compute Cloud Documentation

Amazon EC2 Auto Scaling in Amazon Web Services China

Amazon EC2 Auto Scaling allows you to scale your Amazon EC2 capacity up or down automatically according to conditions you define. With Amazon EC2 Auto Scaling, you can ensure that the number of Amazon EC2 instances you're using increases seamlessly to maintain performance during demand spikes, and decreases automatically to minimize costs during demand lulls. Amazon EC2 Auto Scaling is particularly well suited for applications that experience hourly, daily, or weekly variability in usage. Amazon EC2 Auto Scaling is enabled by Amazon CloudWatch and available at no additional charge beyond CloudWatch fees.

For information about related services, see:

- Amazon Auto Scaling
- Application Auto Scaling

Region availability

Amazon EC2 Auto Scaling is available in the following Amazon Web Services China Regions:

- China (Beijing)

- China (Ningxia)

How Amazon EC2 Auto Scaling differs

- Amazon EC2 provides certain restrictions. For more information, see Amazon Elastic Compute Cloud.
- `Hibernated` is not available as a pool state when creating or updating a warm pool.
- Specifying the `NetworkBandwidthGbps` attribute for an Auto Scaling group that uses attribute-based instance type selection is not available in the China (Beijing) and China (Ningxia) Regions.
- Specifying the `AllowedInstanceTypes` attribute for an Auto Scaling group that uses attribute-based instance type selection is not available in the China (Beijing) and China (Ningxia) Regions.
- Predictive scaling recommendations feature is not currently available in the China (Beijing) and China (Ningxia) Regions.

Documentation

- Amazon EC2 Auto Scaling User Guide
- Amazon EC2 Auto Scaling API Reference

EC2 Image Builder in China Regions

EC2 Image Builder (Image Builder) is a fully managed Amazon service that makes it easier to automate the creation, management, and deployment of customized, secure, and up-to-date server images that are pre-installed and pre-configured with software and settings to meet specific IT standards.

Region availability

EC2 Image Builder is available in the following China Regions:

- China (Beijing) Region
- China (Ningxia) Region

Service differences

The following Image Builder features are not available in China Regions:

- CIS Hardened Images and the CIS Hardening component
- ISO disk file import
- macOS images
- Amazon Web Services Marketplace software components

Guides and references

- EC2 Image Builder User Guide
- EC2 Image Builder CLI Reference
- EC2 Image Builder API Reference
- Amazon Developer Tools
- Service endpoints

Amazon Elastic Container Registry (Amazon ECR) in Amazon Web Services China

Amazon Elastic Container Registry (Amazon ECR) is a managed Amazon Docker registry service that is secure, scalable, and reliable. Amazon ECR supports private Docker repositories with resource-based permissions using Amazon Identity and Access Management (IAM) so that specific users or Amazon EC2 instances can access repositories and images. Developers can use the Docker CLI to push, pull, and manage images.

Region availability

Amazon Elastic Container Registry is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon ECR differs

The following differences apply to Amazon Elastic Container Registry:

- As of October 1, 2025, Repository creation templates are supported in all China regions.
- Cross-region and cross-account replication is now supported between the China Regions. However, cross-Region and cross-account replication is not available between China Regions and Amazon Web Services Regions outside of China.
- The Amazon ECR VPC endpoints are `cn.com.amazonaws.cn-northwest-1.ecr.dkr` and `cn.com.amazonaws.cn-northwest-1.ecr.api`. For more information, see Amazon ECR interface VPC endpoint (Amazon PrivateLink).
- Amazon ECR to Amazon ECR pull through cache rules are only available in the same partition.
- Pull through cache rules for all non-Amazon ECR upstream registries are not available.
- ECR managed signing is not available.

Documentation

- Amazon Elastic Container Registry User Guide
- Amazon Elastic Container Registry API Reference

Amazon Elastic Container Service (Amazon ECS) in Amazon Web Services China

Amazon Elastic Container Service (Amazon ECS) is a highly scalable, fast, container management service that makes it easy to run, stop, and manage Docker containers on a cluster of Amazon EC2 instances. Amazon ECS lets you launch and stop container-based applications with simple API calls, allows you to get the state of your cluster from a centralized service, and gives you access to many familiar Amazon EC2 features.

Region availability

Amazon Elastic Container Service (ECS) is available in the following Amazon Web Services China Regions:

- China (Beijing)

- China (Ningxia)

How Amazon Elastic Container Service (ECS) differs

- When you use an external instance (ECS Anywhere) that runs Windows, run the following command on your on-premises server or virtual machine (VM) to download the installation script.

  ```
  Invoke-RestMethod -URI "https://amazon-ecs-agent.s3.cn-north-1.amazonaws.com.cn/ecs-anywhere-install.ps1" -OutFile "ecs-anywhere-install.ps1"
  ```

  For more information about registering external instances, see Registering an external instance to a cluster in the *Amazon Elastic Container Service Developer Guide*.
- The following features are not available in the China (Ningxia) Region:
  - CodePipeline support
- The following features are not available in the China (Ningxia) Region and China (Beijing) Region:
  - Using CloudWatch alarms to detect when a rolling update deployment has failed
  - Amazon ECS Anywhere when GPU's are enabled

Documentation

- Amazon Elastic Container Service Developer Guide
- Amazon Elastic Container Service API Reference

Amazon Elastic File System (Amazon EFS) in Amazon Web Services China

Amazon Elastic File System provides file storage for your Amazon EC2 instances. With Amazon EFS, you can create a file system, mount the file system on your EC2 instances, and then read and write data from your EC2 instances to and from your file system.

Region availability

Amazon Elastic File System (EFS) is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Elastic File System (EFS) differs

- The access point limit for each file system is 1,000.
- You cannot request increased IOPS for EFS file systems using Elastic throughput mode.
- Maximum combined read and write throughput is 500 mebibytes per second (MiBps) for all file systems.
- The EFS console refers to One Zone as a storage class instead of a file system type.

Documentation

- Amazon Elastic File System User Guide

Amazon Elastic Kubernetes Service (Amazon EKS) in Amazon Web Services China

Amazon Elastic Kubernetes Service is a managed service that makes it easy for you to run Kubernetes on Amazon without needing to install and operate your own Kubernetes clusters.

Region availability

Amazon Elastic Kubernetes Service is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon EKS differs

The following differences apply to Amazon Elastic Kubernetes Service:

- Dual-stack API endpoint for the Amazon EKS OIDC Issuer URL isn't available.
- Dual-stack API endpoint for the Amazon EKS API isn't available.

- Amazon EKS Hybrid Nodes CLI utility `nodeadm` is available for download at the following endpoints:
  - For x86_64 hosts: `https://eks-hybrid-assets.awsstatic.cn/releases/latest/bin/linux/amd64/nodeadm`
  - For ARM hosts: `https://eks-hybrid-assets.awsstatic.cn/releases/latest/bin/linux/arm64/nodeadm`
- The build of Cilium maintained by Amazon Web Services for use with Amazon EKS Hybrid Nodes is available at the following private ECR repositories:
  - China (Beijing) Region: `907723705730.dkr.ecr.cn-north-1.amazonaws.com.cn/cilium/cilium`
  - China (Ningxia) Region: `907723705730.dkr.ecr.cn-northwest-1.amazonaws.com.cn/cilium/cilium`

    To authenticate with the private registry, see Authenticating to a private Amazon ECR registry. To install Cilium using Helm, use the following command:

    ```
    helm install cilium oci://907723705730.dkr.ecr.REGION_CODE.amazonaws.com.cn/cilium/cilium \
        --version CILIUM_VERSION \
        --namespace kube-system \
        --values cilium-values.yaml
    ```
- When using Amazon EKS Hybrid Nodes, customers are responsible for complying with applicable cross-border data transfer requirements. We suggest only connecting your nodes located within Chinese mainland with EKS.
- App Mesh isn't available.
- Amazon EKS on Amazon Outposts isn't available.
- Amazon EC2 A1 instance worker nodes aren't available.
- The Amazon EKS connector isn't available.
- The following add-ons may require modification for use (see the topics for details):
  - Kubernetes Cluster Autoscaler
  - Kubernetes Dashboard
  - Kubernetes Horizontal Pod Autoscaler
  - Kubernetes Metrics Server
  - Kubernetes Vertical Pod Autoscaler

  - Project Calico
- Amazon Managed Service for Prometheus isn't available.
- Amazon EKS Anywhere isn't available.
- The Bottlerocket FIPS AMIs aren't available.
- The Amazon EKS MCP Server isn't available.

Documentation

- Amazon EKS User Guide
- Amazon EKS API Reference

Amazon Elastic Beanstalk in Amazon Web Services China

With Amazon Elastic Beanstalk, you can quickly deploy and manage applications in the Amazon Web Services Cloud without worrying about the infrastructure that runs those applications. Elastic Beanstalk reduces management complexity without restricting choice or control. You simply upload your application, and Elastic Beanstalk automatically handles the details of capacity provisioning, load balancing, scaling, and application health monitoring.

Region availability

Amazon Elastic Beanstalk is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Elastic Beanstalk differs

- In the China (Beijing) Region, environment domains generated by Elastic Beanstalk are formatted as follows, where * denotes the custom domain: *.cn-north-1.eb.amazonaws.com.cn. For more information, see Using Custom Domains with Elastic Beanstalk in the *Amazon Elastic Beanstalk Developer Guide*.
- In the China (Ningxia) Region, environment domains generated by Elastic Beanstalk are formatted as follows, where * denotes the custom domain: *.cn-northwest-1.eb.amazonaws.com.cn.

Documentation

- Amazon Elastic Beanstalk Developer Guide
- Amazon Elastic Beanstalk API Reference

Amazon Elastic Container Registry Public in Amazon Web Services China

Amazon Elastic Container Registry Public (Amazon ECR Public) is a managed Amazon container image registry service that is secure, scalable, and reliable. Amazon ECR Public supports public image repositories with resource-based permissions using Amazon IAM so that specific users can access your public repositories to push images. Developers can use their preferred CLI to push and manage Docker images, Open Container Initiative (OCI) images, and OCI compatible artifacts. Your images are publicly available to pull, either anonymously or using an Amazon ECR Public authentication token.

Region availability

Amazon ECR Public is not available in China Regions.

Documentation

- Amazon ECR Public User Guide
- Amazon ECR Public API Reference

Elastic Load Balancing in Amazon Web Services China

Elastic Load Balancing automatically distributes incoming application traffic across multiple Amazon EC2 instances. It enables you to achieve greater fault tolerance in your applications, seamlessly providing the amount of load balancing capacity needed in response to incoming application traffic. Elastic Load Balancing detects unhealthy instances within a pool and automatically reroutes traffic to healthy instances until the unhealthy instances have been restored.

Region availability

Elastic Load Balancing is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Elastic Load Balancing differs

The following differences apply to Elastic Load Balancing:

- VPC endpoints are not available in the China Regions.
- When using the legacy bucket policy, specify the following Amazon account IDs in the policy to grant Elastic Load Balancing permission to write logs to your S3 bucket:

Region	Elastic Load Balancing account ID
China (Beijing)	638102146993
China (Ningxia)	037604701340

Documentation

- Elastic Load Balancing User Guide
- Elastic Load Balancing API Reference version 2012-06-01

Amazon ElastiCache in Amazon Web Services China

Amazon ElastiCache is a web service that makes it easy to set up, manage, and scale distributed in-memory cache environments in the cloud. It provides a high performance, resizable, and cost-effective in-memory cache, while removing the complexity associated with deploying and managing a distributed cache environment. You can choose from Memcached or Redis protocol-compliant cache engine software, and let ElastiCache perform software upgrades and patch management for you automatically.

Region availability

Amazon ElastiCache is available in the following Amazon Web Services China Regions:

- China (Beijing)

- China (Ningxia)

How Amazon ElastiCache differs

The following differences apply to Amazon ElastiCache:

- Amazon ElastiCache Data tiering is not available.

- When granting ElastiCache read access to your .rdb file on Amazon S3 in the China (Beijing) and China (Ningxia) Regions, type the canonical ID `b14d6a125bdf69854ed8ef2e71d8a20b7c490f252229b806e514966e490b8d83` in the **Grantee** field instead of `aws-scs-s3-readonly@amazon.com`.
- The r6gd node type is not available in these Regions.

Documentation

- Amazon ElastiCache User Guide
- Amazon ElastiCache API Reference

AWS Elemental MediaConvert in Amazon Web Services China

AWS Elemental MediaConvert is a file-based video processing service that provides scalable video processing for content owners and distributors with media libraries of any size. MediaConvert offers advanced features that enable premium content experiences, including:

- Professional broadcast codecs that support increased bit depth and HDR content creation
- Still graphic overlays
- Advanced audio
- Closed captioning support

MediaConvert offers support for various input formats and adaptive bitrate (ABR) packaging output formats for delivering high-quality content from a range of sources onto primary and multiscreen devices.

Region availability

AWS Elemental MediaConvert is available in the following Amazon Web Services China Regions:

- China (Ningxia)

How AWS Elemental MediaConvert differs

- Some forms of data protection through encryption are not currently supported by MediaConvert in the China (Ningxia) Region. The following forms of encryption are not available:
  - Decryption of input media files that you encrypt before uploading them to Amazon S3.
  - Encryption of output media files with a master key that is managed by Amazon Key Management Service (SSE-KMS). Therefore, you can't provide your own master key when using MediaConvert in the China (Ningxia) Region.

    > **Note**
    >
    > In the China (Ningxia) Region, MediaConvert does support encryption of output files with a master key managed by Amazon S3.

  - Digital rights management (DRM) using dynamic keys. This includes all DRM done with third-party DRM partners using the SPEKE specification.

    > **Note**
    >
    > In the China (Ningxia) Region, MediaConvert does support static key encryption in HLS packages.

Documentation

- AWS Elemental MediaConvert User Guide
- AWS Elemental MediaConvert API Reference

Amazon EMR in Amazon Web Services China

Amazon EMR helps you analyze and process vast amounts of data by distributing the computational work across a cluster of virtual servers running in the Amazon Cloud. The cluster is managed using an open-source framework called Hadoop. Amazon EMR lets you focus on crunching or analyzing your data without having to worry about time-consuming setup, management, and tuning of Hadoop clusters or the compute capacity they rely on.

Region availability

Amazon Elastic MapReduce (EMR) is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Elastic MapReduce (EMR) differs

- Automatic Amazon Linux updates, as discussed in the Amazon EMR Management Guide, are not enabled in the China (Beijing) and China (Ningxia) Regions.
- Amazon EMR does not support AMI version 2.4.11 and earlier in the China (Beijing) and China (Ningxia) Regions. The China (Ningxia) region only supports Amazon EMR version 4.9.1 and later.
- YARN **Application history** is not available on the cluster details page.
- The old Amazon EMR management console is the default console for the China (Beijing) and China (Ningxia) Regions.
- The following table indicates which instance are available to be used with Amazon EMR in the China (Beijing) and China (Ningxia) Regions. **Yes** appears for regions where the instance type is available.

Instance Type	China (Beijing)	China (Ningxia)
c3.2xlarge	Yes	No
c3.4xlarge	Yes	No
c3.8xlarge	Yes	No

Instance Type	China (Beijing)	China (Ningxia)
c3.xlarge	No	Yes
g2.2xlarge	Yes	No
d2.xlarge	No	Yes
d2.2xlarge	No	Yes
d2.4xlarge	No	Yes
d2.8xlarge	No	Yes
i2.2xlarge	No	Yes
i2.4xlarge	No	Yes
i2.8xlarge	No	Yes
i2.xlarge	No	Yes
i3.xlarge	No	Yes
i3.2xlarge	No	Yes
i3.4xlarge	No	Yes
i3.8xlarge	No	Yes
i3.16xlarge	No	Yes
m1.large	Yes	No
m1.medium	Yes	No
m1.small	Yes	No
m1.xlarge	Yes	No
m3.2xlarge	Yes	No

Instance Type	China (Beijing)	China (Ningxia)
m3.medium	Yes	No
m3.large	Yes	No
m3.xlarge	Yes	No
r3.xlarge	Yes	No
r3.2xlarge	Yes	No
r3.4xlarge	Yes	No
r3.8xlarge	Yes	No
m4.large	Yes	Yes
m4.xlarge	Yes	Yes
m4.2xlarge	Yes	Yes
m4.4xlarge	Yes	Yes
m4.10xlarge	Yes	Yes
m4.16xlarge	Yes	Yes
c4.large	Yes	Yes
c4.xlarge	Yes	Yes
c4.2xlarge	Yes	Yes
c4.4xlarge	Yes	Yes
c4.8xlarge	Yes	Yes
r4.xlarge	Yes	Yes
r4.2xlarge	Yes	Yes

Instance Type	China (Beijing)	China (Ningxia)
r4.4xlarge	Yes	Yes
r4.8xlarge	Yes	Yes
r4.16xlarge	Yes	Yes

Documentation

- All Amazon EMR versions
  - Amazon EMR API Reference
- Amazon EMR versions 4.0 and later
  - Amazon EMR Management Guide
  - Amazon EMR Release Guide
- Amazon EMR versions earlier than 4.0
  - Amazon EMR Developer Guide (applies only to Amazon EMR versions earlier than 4.0)

Amazon EventBridge in Amazon Web Services China

Amazon EventBridge is a serverless event bus service that makes it easy to connect your applications with data from a variety of sources. EventBridge delivers a stream of real-time data from your own applications, software-as-a-service (SaaS) applications, and Amazon services and routes that data to targets such as Amazon Lambda. You can set up routing rules to determine where to send your data to build application architectures that react in real time to all of your data sources. EventBridge enables you to build event-driven architectures that are loosely coupled and distributed.

Region availability

Amazon EventBridge is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon EventBridge differs

The following differences apply to Amazon EventBridge:

- Custom event bus (eventsv2) is not available.

Documentation

- Amazon EventBridge User Guide
- Amazon EventBridge API Reference

Amazon Firewall Manager in Amazon Web Services China

Amazon Firewall Manager simplifies your administration and maintenance tasks across multiple accounts and resources for a variety of protections, including Amazon WAF Amazon VPC security groups, and Amazon Route 53 Resolver DNS Firewall. With Firewall Manager, you set up your protections just once and the service automatically applies them across your accounts and resources, even as you add new resources.

Region availability

Amazon Firewall Manager is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Firewall Manager differs

The following differences apply to Amazon Firewall Manager:

- No support for Amazon Shield Advanced
- No support for Amazon Network Firewall

Documentation

- Amazon Firewall Manager Developer Guide

- Amazon Firewall Manager API Reference

FreeRTOS in Amazon Web Services China

FreeRTOS is an operating system that makes microcontroller-based edge devices easy to program, deploy, secure, and maintain. FreeRTOS extends the FreeRTOS kernel, a popular open source operating system for microcontrollers, with software libraries that can be used to securely connect devices (locally and to the cloud) and update them remotely.

Region availability

FreeRTOS is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How FreeRTOS differs

The following differences apply to FreeRTOS:

- Currently, Amazon IoT Device Tester for FreeRTOS is not available in the China (Beijing) and China (Ningxia) Regions.

Documentation

- FreeRTOS User Guide
- FreeRTOS Porting Guide
- FreeRTOS Qualification Guide
- FreeRTOS API Reference

Amazon FSx in Amazon Web Services China

Amazon FSx provides fully managed third-party file systems with the native compatibility and feature sets for workloads such as Microsoft Windows–based storage, high-performance computing, machine learning, and electronic design automation. Amazon FSx supports three file system types: FSx for Lustre, FSx for ONTAP and FSx for Windows File Server.

Region availability

Amazon FSx is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon FSx differs

The following differences apply to Amazon FSx:

- For Amazon FSx for Windows File Server, the Multi-AZ file system deployment type is not available in the China (Beijing) region.
- For Amazon FSx for Lustre, the Scratch 1 and Scratch 2 file system deployment types are not available.
- For Amazon FSx for NetApp ONTAP, the following features are not available:
  - Nitro-based encryption in transit
  - Second-generation file systems
  - Accelerated data tiering
  - Non-Volatile Memory Express over TCP (NVMe/TCP)
  - Reading data from a volume while it is being restored from a backup
- For Amazon FSx for OpenZFS, the following features aren't available:
  - Single-AZ 2 and Single-AZ (HA) file system deployment types
  - Amazon S3 access points

Documentation

- Amazon FSx for Windows File Server User Guide
- Amazon FSx for Lustre User Guide
- Amazon FSx for NetApp ONTAP User Guide
- Amazon FSx for OpenZFS User Guide
- Amazon FSx API Reference

Amazon GameLift Servers in Amazon Web Services China

Amazon GameLift Servers is a fully managed service for deploying, operating, and scaling your session-based multiplayer game servers in the cloud. Amazon GameLift Servers replaces the work required to host your own game servers, including buying and setting up hardware, and managing ongoing activity, security, storage, and performance tracking. The Amazon GameLift Servers auto-scaling capabilities provide additional protection from having to pay for more resources than you need, while helping to ensure that your players can find and join games with minimal waiting. Amazon GameLift Servers provides robust tool for matchmaking with FlexMatch.

Region availability

Amazon GameLift Servers is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon GameLift Servers differs

- Hosting with managed container fleets is not available.
- Amazon Graviton instance types are not available in Amazon GameLift Servers.
- Fleets that are created and reside in a China region cannot deploy instances to locations other than the fleet's home region. In addition, fleets that reside outside of a China region cannot deploy instances to remote locations in a China region.
- For any queues that are created and run in a China region, they must contain only destinations (either fleets or aliases) that are also in the China region; destinations outside of the China region cannot be used. In addition, destinations that run in a China region cannot be used by a queue that is outside of the China region.
- For FlexMatch matchmaking, matchmaking configurations that are created and run in a China region must use only queues that are also in the China region; queues in other regions cannot be used. In addition, queues that run in a China region cannot be used by a matchmaking configuration that is not in a China region.
- When securely accessing Amazon services from Amazon GameLift Servers-hosted instances, instances in fleets that are deployed in a China region can only access other Amazon resources in the region; they cannot access Amazon resources in other regions. In addition, other Amazon

resources that are deployed in a China region cannot be accessed by instances in fleets that are deployed in a different region.

- Because Amazon Certificate Manager is not available in the China Regions, TLS certificate generation is not available. New fleets must have the certificate configuration set to *disabled*.
- Use of AMD instances for Amazon GameLift Servers FleetIQ game server groups is not available in the China Regions.
- The use of personal compute resources with Amazon GameLift Servers Anywhere is not available.
- The C++, C#, and Go server SDK 5.x's are not available.
- The Amazon GameLift Servers plugins for Unreal Engine and Unity are not available.
- The game server wrapper is not available.
- Server telemetry metrics for game servers are not available.
- The TerminateGameSession API operation is not available.
- Windows Server 2022 is not available for Amazon GameLift Servers managed hosting; use Windows Server 2016.
- The expanded selection of newer-generation Amazon EC2 instance types (including c6a and c6i) is not available in Amazon GameLift Servers.
- Server side encryption for Amazon SNS topics is not available.
- Player gateway is not available.

Documentation

- Amazon GameLift Servers Developer Guide
- Amazon GameLift Servers API Reference

Amazon Glacier in Amazon Web Services China

Amazon Glacier is a low-cost storage service that provides secure and durable storage for data archiving and backup. With Amazon Glacier, customers can store their data cost effectively for months, years, or even decades. Amazon Glacier enables customers to offload the administrative burdens of operating and scaling storage to Amazon Web Services China, so they don't have to worry about capacity planning, hardware provisioning, data replication, hardware failure detection and recovery, or time-consuming hardware migrations.

Region availability

S3 Glacier is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How S3 Glacier differs

There are no differences for this service.

Documentation

- Amazon Glacier Developer Guide

Amazon Glue in Amazon Web Services China

Amazon Glue is a fully managed ETL (extract, transform, and load) service that makes it simple and cost-effective to categorize your data, clean it, enrich it, and move it reliably between various data stores. Amazon Glue consists of a central data repository known as the Amazon Glue Data Catalog, an ETL engine that automatically generates Python code, and a flexible scheduler that handles dependency resolution, job monitoring, and retries. Amazon Glue is serverless, so there's no infrastructure to set up or manage. Use the Amazon Glue console to discover your data, transform it, and make it available for search and querying. You can also use the Amazon Glue API operations to interface with Amazon Glue.

Region availability

Amazon Glue is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Glue differs

The following differences apply to Amazon Glue:

- CloudWatch Logs encryption is not available in the China (Ningxia) Region.
- Amazon Glue VPC endpoints are not available in the China (Beijing) and China (Ningxia) Regions.
- Certain ETL streaming features are not available in the China (Beijing) and China (Ningxia) Regions.
- Amazon AppFlow and Amazon Data Exchange with Amazon Glue DataBrew are not available in the China (Beijing) and China (Ningxia) Regions.

Documentation

- Amazon Glue Developer Guide

Amazon GuardDuty in Amazon Web Services China

Amazon GuardDuty is a continuous security monitoring service. Amazon GuardDuty can help to identify unexpected and potentially unauthorized or malicious activity in your Amazon environment.

Region availability

Amazon GuardDuty is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How GuardDuty differs

The following differences apply to Amazon GuardDuty:

- The Customizing threat detection with entity lists and IP address lists capability doesn't support entity lists in China Regions. GuardDuty continues to support IP address lists.
- The Extended Threat Detection coverage for EKS clusters supports detecting multi-stage attacks through available EKS Protection finding types (EKS audit log monitoring) and Amazon API activity in the China Regions.

  Runtime Monitoring (including EKS Runtime Monitoring) is not available in the China Regions.

- The following Extended Threat Detection finding type is not available in the China Regions:
  - AttackSequence:ECS/CompromisedCluster
- The following EKS Protection (EKS audit log monitoring) finding types are not available in the China Regions:
  - CredentialAccess:Kubernetes/AnomalousBehavior.SecretsAccessed
  - PrivilegeEscalation:Kubernetes/AnomalousBehavior.RoleBindingCreated
  - Execution:Kubernetes/AnomalousBehavior.ExecInPod
  - PrivilegeEscalation:Kubernetes/AnomalousBehavior.WorkloadDeployed!PrivilegedContainer
  - Persistence:Kubernetes/AnomalousBehavior.WorkloadDeployed!ContainerWithSensitiveMount
  - Execution:Kubernetes/AnomalousBehavior.WorkloadDeployed
  - PrivilegeEscalation:Kubernetes/AnomalousBehavior.RoleCreated
  - Discovery:Kubernetes/AnomalousBehavior.PermissionChecked
- The following IAM finding types are not available in the China Regions:
  - DefenseEvasion:IAMUser/BedrockLoggingDisabled
  - CredentialAccess:IAMUser/CompromisedCredentials
- Amazon GuardDuty and interface VPC endpoint (Amazon PrivateLink) integration is not available in the China Regions.
- Malware Protection for Backup is not available in the China Regions.
- Preview of GuardDuty Investigation and its associated APIs are not available in the China Regions.
- Managing GuardDuty accounts with organization policies is not available in the China Regions.
- The following list describes the feature differences for Malware Protection for EC2:
  - Scanning instances with `productCode` as `marketplace` is not available in the China Regions. GuardDuty will skip the malware scan for such instances and log the skip reason as UNSUPPORTED_PRODUCT_CODE_TYPE.
- RDS Protection is not available in the China Regions.
- For AI Protection in the China Regions:
  - The following finding types are available, but GuardDuty generates them only from Amazon SageMaker AI model invocations because Amazon Bedrock is not available in these Regions:
    - Impact:IAMUser/AnomalousModelInvocation
    - Impact:IAMUser/CostHarvesting

  - The Impact:IAMUser/PromptInjection.Direct finding type is not available in the China Regions because Amazon Bedrock and Amazon Bedrock Guardrails are not available in these Regions.
- GuardDuty findings for CloudFront activity will no longer be available in China (Beijing) Region, cn-north-1. In order to monitor CloudFront activity, GuardDuty must be enabled in China (Ningxia) Region, cn-northwest-1.
- The following Amazon EC2 finding types are not available in the China Regions.
  - DefenseEvasion:EC2/UnusualDoHActivity
  - DefenseEvasion:EC2/UnusualDoTActivity
- The following GuardDuty Tor-related finding types have retired in the China Regions:
  - UnauthorizedAccess:EC2/TorClient
  - UnauthorizedAccess:EC2/TorRelay
  - Discovery:S3/TorIPCaller
  - UnauthorizedAccess:S3/TorIPCaller
  - Recon:IAMUser/TorIPCaller
  - UnauthorizedAccess:IAMUser/TorIPCaller
  - CredentialAccess:Kubernetes/TorIPCaller
  - DefenseEvasion:Kubernetes/TorIPCaller
  - Discovery:Kubernetes/TorIPCaller
  - Impact:Kubernetes/TorIPCaller
  - Persistence:Kubernetes/TorIPCaller

Documentation

- Amazon GuardDuty User Guide

Amazon Health in Amazon Web Services China

Amazon Health provides personalized information about events that can affect your Amazon infrastructure, guides you through scheduled changes, and accelerates the troubleshooting of issues that affect your Amazon resources and accounts.

Region availability

Amazon Health is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Health differs

The following differences apply to Amazon Health:

- The organizational view feature isn't supported.
- You can navigate to the Amazon Web Services Health Dashboard page to view the health of all Amazon Web Services services without signing in to your Amazon Web Services account.
- If you sign in to your Amazon Web Services account, you can find events specific to your account and services in the **Personal Health Dashboard**.

Documentation

- Amazon Health User Guide
- Amazon Health API Reference

IAM Identity Center in Amazon Web Services China

IAM Identity Center is the Amazon Web Services solution for connecting your workforce users to all of their Amazon Web Services managed applications and Amazon Web Services accounts. Users who have access to one or more accounts can sign in to the Amazon Web Services access portal and access Amazon Web Services applications by using the Amazon Web Services Management Console or retrieve temporary credentials to access Amazon Web Services applications programmatically. You can connect your existing identity provider or create and manage your users directly in IAM Identity Center. For existing identity providers, automatic provisioning (synchronization) of user and group information from your identity provider into IAM Identity Center is supported.

Region availability

IAM Identity Center is available in the following Regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How IAM Identity Center differs

The following differences apply to IAM Identity Center:

- IAM Identity Center integrates with Amazon Organizations to manage access across your Amazon Web Services accounts, and therefore, IAM Identity Center is subject to any Amazon Organizations differences.
- The Amazon Web Services access portal URL has a URL pattern of `IdentityStoreId` or `CustomAlias`.

  You can find this URL on the **Settings** page in the IAM Identity Center console.
- The Amazon Resource Name (ARN) for your IAM Identity Center instance has a pattern of `arn:aws-cn:sso:::instance/[InstanceId]` You can find this ARN on the **Settings** page in the IAM Identity Center console.
- The ARNs for IAM Identity Center permission sets has a pattern of `arn:aws-cn:sso:::permissionSet/[InstanceID]/[PermissionSetID]` You can find these ARNs on the **Permission sets** tab under the Amazon Web Services accounts page in the IAM Identity Center console.
- The email address `no-reply@login.awsapps.cn` is used for sending email-verification, password reset, and user invitation emails in the China (Beijing) and China (Ningxia) Regions. The email address `no-reply@signin.amazonaws.com.cn` is used for sending forgotten password emails.
- Google Workspace (formerly G Suite) is not available in China.
- The solutions provided by Amazon Security Competency partners CyberArk, Ermetic, and Okta are not hosted in China. Their capabilities and integration with IAM Identity Center for the purposes of temporary elevated access management have not been tested with IAM Identity Center in China.
- Single sign-on to Amazon EC2 Windows instances for IAM Identity Center users is not available.
- IAM Identity Center integrates with Amazon Web Services applications to provide single sign-on and centralized identity and access management for those applications. The Amazon Web Services products page lists the Amazon Web Services applications available in China. Refer

to the China-specific user guide of an Amazon Web Services application for details on its integration with IAM Identity Center.

- The user background sessions feature appears in the console for China, but this feature cannot be used because user background sessions are only supported for Amazon SageMaker Studio. Although Amazon SageMaker AI is supported in China, Amazon SageMaker Studio, which is its latest web experience for running machine learning (ML) workflows, is not available in China.
- The application and identity providers referenced in the IAM Identity Center documentation are third parties. Their instances may be located outside of China. Customers should verify the location of the instances with the third-party providers directly, and customers should confirm whether any cross-border transfers of data comply with their obligations under applicable laws. If customers use the services offered by these third parties, customers may experience higher latency due to reasons beyond the control of Amazon (for example, if the third party's servers are outside of China), and customers should work with the third-party provider directly to address latency.
- The cloud application, External Amazon Web Services Account, is presently not available in the cloud application catalog. If you need to configure a federation to an Amazon Web Services account, which is not part of the same Amazon organization, you can use a custom SAML application. Instructions on how to set up the federation in the account are available in IAM User Guide.
- Amazon Web Services China (Beijing) Region, operated by Sinnet, and Amazon Web Services China (Ningxia) Region, operated by NWCD, are enabled by default. Therefore, they do not need to be manually enabled.
- The following Amazon Web Services managed application is supported for account instances of IAM Identity Center:
  - Amazon S3 Access Grants
- If you filter access to specific Amazon Web Services domains by using a web content filtering solution such as next-generation firewalls (NGFW) or Secure Web Gateways (SWG), you must add the following domains to your web-content filtering solution allowlists. Doing so enables you to access your Amazon Web Services access portal.

  The following list provides the IPv4 and dual-stack domains and URL endpoints to add to your web-content filtering solution allowlists.

  IPv4 allow list

  - `start.home.awsapps.cn`

- start.[Region].home.awsapps.cn
- [IAM-Identity-Center-instance-id].[Region].portal.amazonaws.com.cn
- oidc.[Region].amazonaws.com.cn
- *.applicationcatalog.amazonaws.com.cn
- *.sso.[Region].amazonaws.com.cn
- *.sso.amazonaws.cn
- *.sso-portal.[Region].amazonaws.com.cn
- *.sso.[Region].amazonaws.cn
- aws-access-portal-website-prod-bjs-assets.s3.cn-north-1.amazonaws.com.cn
- aws-access-portal-website-prod-zhy-assets.s3.cn-northwest-1.amazonaws.com.cn
- s3.cn-north-1.amazonaws.com.cn/awsconsole-peregrine-portal-prod-bjs-assets
- s3.cn-northwest-1.amazonaws.com.cn/awsconsole-peregrine-portal-prod-zhy-assets
- [Region].signin.amazonaws.cn
- *.cloudfront.net
- opfcaptcha-prod.s3.amazonaws.com

Dual-stack allow list

- [IAM-Identity-Center-instance-id].portal.[Region].app.amazonwebservices.com.cn
- oidc.[Region].api.amazonwebservices.com.cn
- *.applicationcatalog.amazonaws.com.cn
- sso.[Region].api.amazonwebservices.com.cn
- portal.sso.[Region].api.amazonwebservices.com.cn
- scim.[Region].api.amazonwebservices.com.cn
- identitystore.[Region].api.amazonwebservices.com.cn
- identity-sync.[Region].api.amazonwebservices.com.cn
- dual-stack.auth-control.[Region].prod.apps-auth.aws.a2z.org.cn

- pvs-cp.[Region].api.amazonwebservices.com.cn
- aws-access-portal-website-prod-bjs-assets.s3.cn-north-1.amazonaws.com.cn
- aws-access-portal-website-prod-zhy-assets.s3.cn-northwest-1.amazonaws.com.cn
- s3.cn-north-1.amazonaws.com.cn/awsconsole-peregrine-portal-prod-bjs-assets
- s3.cn-northwest-1.amazonaws.com.cn/awsconsole-peregrine-portal-prod-zhy-assets
- [Region].sso.signin.amazonaws.cn
- *.cloudfront.net
- opfcaptcha-prod.s3.amazonaws.com

Combined allow list (IPv4 + Dual-stack with backward compatibility)

- start.home.awsapps.cn
- start.[Region].home.awsapps.cn
- [IAM-Identity-Center-instance-id].[Region].portal.amazonaws.com.cn
- [IAM-Identity-Center-instance-id].portal.[Region].app.amazonwebservices.com.cn
- oidc.[Region].amazonaws.com.cn
- oidc.[Region].api.amazonwebservices.com.cn
- *.applicationcatalog.amazonaws.com.cn
- *.sso.[Region].amazonaws.com.cn
- sso.[Region].api.amazonwebservices.com.cn
- *.sso.amazonaws.cn
- *.sso-portal.[Region].amazonaws.com.cn
- portal.sso.[Region].api.amazonwebservices.com.cn
- *.sso.[Region].amazonaws.cn
- scim.[Region].api.amazonwebservices.com.cn
- identitystore.[Region].api.amazonwebservices.com.cn
- identitysync.[Region].api.amazonwebservices.com.cn

- dual-stack.auth-control.[Region].prod.apps-auth.aws.a2z.org.cn
- pvs-cp.[Region].api.amazonwebservices.com.cn
- aws-access-portal-website-prod-bjs-assets.s3.cn-north-1.amazonaws.com.cn
- aws-access-portal-website-prod-zhy-assets.s3.cn-northwest-1.amazonaws.com.cn
- s3.cn-north-1.amazonaws.com.cn/awsconsole-peregrine-portal-prod-bjs-assets
- s3.cn-northwest-1.amazonaws.com.cn/awsconsole-peregrine-portal-prod-zhy-assets
- [Region].signin.amazonaws.cn
- [Region].sso.signin.amazonaws.cn
- *.cloudfront.net
- opfcaptcha-prod.s3.amazonaws.com

Documentation

- Amazon IAM Identity Center User Guide
- IAM Identity Center API Reference

Amazon Identity and Access Management in Amazon Web Services China

Amazon Identity and Access Management (IAM) enables you to securely control access to Amazon Web Services China services and resources for your users. With IAM, you can create and manage Amazon Web Services China users and groups and use permissions to allow and deny their access to Amazon Web Services China resources. In some scenarios, you may also want to use Amazon Security Token Service, which lets you grant a trusted user temporary, limited access to your Amazon Web Services China resources.

Region availability

Amazon Identity and Access Management does not require region selection, but is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Identity and Access Management differs

The following differences apply to Amazon Identity and Access Management:

- **Users and credentials** – In the China (Beijing) and China (Ningxia) Regions, there is no concept of the "root user" or "account user" credentials. All users are IAM users, including the user who created the account. Administrative IAM users might have permissions to complete tasks that require root user credentials. If they don't, you must contact Support to complete those tasks.
- **Forgot password** – If an IAM user (including the administrator user) in the China (Beijing) and China (Ningxia) Regions forgets their password, they can reset the password from the Amazon Web Services Management Console. Amazon will send a password reset link to the email address that is associated with the Amazon account. Administrators cannot use a policy to deny access to this feature because the requestor is not signed in to Amazon. However, each request is stored as a CloudTrail entry. For more information, see IAM Credentials.
- **No hardware or SMS MFA** – The China (Beijing) and China (Ningxia) Regions do not support using hardware or SMS multi-factor authentication (MFA) for IAM users. The Regions do support using virtual MFA. For information about using virtual MFA, see Enabling a Virtual Multi-factor Authentication (MFA) Device.
- **Web identity federation** – Some web identity providers, such as social media platforms, might not be available in the China (Beijing) and China (Ningxia) Regions.
- **IAM control plane** – There is one IAM control plane for all China Regions, which is located in the China (Beijing) Region. Each Amazon Web Services Region has a completely independent instance of the IAM data plane. For more information, see Resilience in Amazon Identity and Access Management.
- **IAM dual-stack public endpoint** – In the China Regions, the IAM dual-stack public endpoint is `https://iam.global.api.amazonwebservices.com.cn`. This endpoint supports clients using either IPv4 or IPv6 addresses. For more information, see Dual-stack endpoint support in the *IAM User Guide*.

- **No Amazon STS global endpoint** – In the China Regions, there is no Amazon STS global endpoint. Amazon provides Regional Amazon STS endpoints.
- **Interface VPC endpoints for IAM** – In the China (Beijing) Region, the Amazon PrivateLink interface VPC endpoint service name for IAM is `com.amazonaws.iam`. You can create interface VPC endpoints for IAM only in the Amazon Web Services Region where the IAM control plane resides, since IAM is a global service. For more information, see Interface VPC endpoints.
- **Interface VPC endpoints for Amazon STS** – In the China Regions, the Amazon PrivateLink interface VPC endpoint service name for Amazon STS is `cn.com.amazonaws.region.sts`. Replace *region* with the Amazon Web Services Region of where you intend to create the interface VPC endpoint. For more information, see Interface VPC endpoints.
- **Amazon API Signature Version** – In the China (Beijing) Region, the Amazon STS endpoint only supports request Signature Version 4 (SigV4) by default and can be updated to support both SigV4 and Signature Version 4A (SigV4A). Session tokens supporting the SigV4A algorithm are larger than those supporting SigV4 and match the size of tokens issued by the Amazon STS endpoint in the China (Ningxia) Region, which already supports SigV4A. Changing this setting might affect existing systems where you temporarily store tokens. For more information, see Managing Amazon STS in an Amazon Web Services Region.
  - Documentation that mentions **Valid only in Amazon Web Services Regions enabled by default** refers to **Support only SigV4-based signatures on Amazon Web Services requests** for the Amazon STS endpoint in the China (Beijing) Region.
  - Documentation that mentions **All Amazon Web Services Regions** refers to **Both the SigV4 and SigV4A algorithms** for the Amazon STS endpoint in the China (Beijing) Region.
- **Policy names** – IAM policy names can contain only the following Unicode characters: horizontal tab (x09), linefeed (x0A), carriage return (x0D), and characters in the range x20 to xFF. In practice, this means that you can't use Chinese characters in policy names.
- **Service principals in policies** – In IAM policies where the principal is a service, the service principal name can include the following formats, with "service" replaced by the name of the service:
  - `service.amazonaws.com`
  - `service.amazonaws.com.cn`

  Do not try to guess the service principal, because it is case sensitive and the format can vary across Amazon services. The service principal is defined by the service. To learn the service principal for a service, see the documentation for that service. For some services, see Amazon services that work with IAM and look for the services that have **Yes** in the **Service-linked**

role column. Choose a **Yes** with a link to view the service-linked role documentation for that service. View the **Service-linked role permissions** section for that service to view the service principal.

For more information, see Creating a Role to Delegate Permissions to an Amazon Service and Using an IAM Role to Grant Permissions to Applications Running on Amazon EC2 Instances.

- **SSH public keys** – SSH public keys are used only in conjunction with CodeCommit, which is currently not available in the China (Beijing) and China (Ningxia) Regions.
- In the China (Beijing) Region, **the Amazon Resource Name (ARN) syntax** includes the `aws-cn` partition for resources in the Region. For example: arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Zhang.
- In the China (Ningxia) Region, **the Amazon Resource Name (ARN) syntax** includes the `aws-cn` partition for resources in the Region. For example: arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Wang.
- **Switching roles** – In the China (Beijing) Region and China (Ningxia) Region, after you switch to a role in the Amazon Web Services Management Console, you cannot switch back to your original credentials. Instead, you must sign out and then sign in again using the desired credentials.
- Only some Amazon services support service-linked roles in the China (Beijing) and China (Ningxia) Regions. For information about which services support using service-linked roles, see Amazon services that work with IAM and look for the services that have **Yes** in the **Service-Linked Role column**. To learn whether the service supports service-linked roles in a specific region, choose the **Yes** link to view the service-linked role documentation for that service.
- **Access Analyzer** – The China (Beijing) and China (Ningxia) Regions do not support the creation of unused access analyzers or internal access analyzers. For more information, see Getting started with Amazon Identity and Access Management Access Analyzer.
- **Last accessed data** – Data about when an IAM identity (user, group, or role) last attempted to access an Amazon service through permissions granted by an IAM policy is not available. For more information, see Service Last Accessed Data.
- **Role last used** – Information about when a role was last used is not available. For more information, see View Role Access.
- **Policy generation** – Policy generation is not available in the China (Beijing) and China (Ningxia) Regions. To learn more, see Generate policies based on access activity in the *IAM User Guide*.
- **IAM Roles Anywhere** – The China (Beijing) and China (Ningxia) Regions do not support the creation of trust anchors with Amazon Private Certificate Authority. The China (Beijing) and China (Ningxia) Regions do support the creation of a trust anchor with your own certificate

authority. To learn more, see Creating a trust anchor and profile in the IAM Roles Anywhere User Guide.

Documentation

- IAM User Guide
- IAM API Reference

Amazon Infrastructure Composer in Amazon Web Services China

Design and build modern infrastructure through the Amazon Infrastructure Composer visual builder.

Region availability

Amazon Infrastructure Composer is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Infrastructure Composer differs

There are no differences for this service.

Documentation

- Amazon Infrastructure Composer Developer Guide

Amazon Inspector in Amazon Web Services China

Amazon Inspector is a security vulnerability management service that helps improve the security and compliance of your Amazon resources. Amazon Inspector automatically assesses resources for vulnerabilities or deviations from best practices, and then produces a detailed list of security findings prioritized by level of severity. Amazon Inspector includes a knowledge base of hundreds

of rules mapped to common security standards and vulnerability definitions that are regularly updated by Amazon security researchers.

Region availability

Amazon Inspector is available in the following regions in China:

China (Beijing) Region

- inspector2.cn-north-1.amazonaws.com.cn
- inspector2.cn-north-1.api.amazonwebservices.com.cn
- inspector2.cn-northwest-1.amazonaws.com.cn
- inspector2.cn-northwest-1.api.amazonwebservices.com.cn

China (Ningxia) Region

- inspector-scan.cn-north-1.amazonaws.com.cn
- inspector-scan.cn-north-1.api.amazonwebservices.com.cn
- inspector-scan.cn-northwest-1.amazonaws.com.cn
- inspector-scan.cn-northwest-1.api.amazonwebservices.com.cn

How Amazon Inspector differs

The following differences apply to Amazon Inspector:

- Network Reachability findings are not available.
- CI/CD integration is not available.

Documentation

- Amazon Inspector User Guide
- Amazon Inspector API Reference

Amazon IoT in Amazon Web Services China

Amazon IoT provides secure, bi-directional communication between Internet-connected things (such as sensors, actuators, embedded devices, or smart appliances) and the Amazon Cloud. This enables you to collect telemetry data from multiple devices and store and analyze the data. You can also create applications that enable your users to control these devices from their phones or tablets. Amazon IoT includes Amazon IoT Device Management and Amazon IoT Device Defender. Amazon IoT Device Defender allows you to audit the configuration of your devices, monitor your connected devices to detect abnormal behavior, and to mitigate security risks. It gives you the ability to enforce consistent security policies across your Amazon IoT device fleet and respond quickly when devices are compromised.

Region availability

Amazon IoT is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon IoT differs

- For Amazon IoT Core, the Amazon IoT SiteWise rule action is not available.
- For Amazon IoT Core, Amazon IoT Analytics and Amazon Cognito are not available in the China (Ningxia) Region.
- For Amazon IoT Core, encryption of stored data (data at rest) for the fleet indexing service is not available.
- For Amazon IoT Core, Alexa Voice Service Integration for Amazon IoT is not available.
- For Amazon IoT Core, configurable endpoints are not available.
- For Amazon IoT Device Defender, the IOT_ROLE_ALIAS_OVERLY_PERMISSIVE_CHECK and IOT_ROLE_ALIAS_ALLOWS_ACCESS_TO_UNUSED_SERVICES_CHECK audit checks are not available.
- For Amazon IoT Device Defender, the UNAUTHENTICATED_COGNITO_ROLE_OVERLY_PERMISSIVE_CHECK and AUTHENTICATED_COGNITO_ROLE_OVERLY_PERMISSIVE_CHECK audit checks are available in the China (Beijing) Region but not the China (Ningxia) Region.

Documentation

- Amazon IoT Developer Guide
- Amazon IoT API Reference
- Amazon IoT Device Defender Developer Guide
- Amazon IoT Device Defender API Reference
- Amazon IoT Device Management Developer Guide
- Amazon IoT Device Management API Reference

Amazon IoT Greengrass in Amazon Web Services China

Amazon IoT Greengrass seamlessly extends Amazon onto physical devices so they can act locally on the data they generate, while still using the cloud for management, analytics, and durable storage. Amazon IoT Greengrass ensures your devices can respond quickly to local events and operate with intermittent connectivity. Amazon IoT Greengrass minimizes the cost of transmitting data to the cloud by enabling you to author custom software and Amazon Lambda functions that run on local devices.

Region availability

Amazon IoT Greengrass is available in the following regions in China:

- China (Beijing) Region

Amazon IoT Greengrass Version 1 in Amazon Web Services China

Amazon IoT Greengrass seamlessly extends Amazon onto physical devices so they can act locally on the data they generate, while still using the cloud for management, analytics, and durable storage. Amazon IoT Greengrass ensures your devices can respond quickly to local events and operate with intermittent connectivity. Amazon IoT Greengrass minimizes the cost of transmitting data to the cloud by enabling you to author custom software and Amazon Lambda functions that run on local devices.

Region availability

Amazon IoT Greengrass V1 is available in the following regions in China:

- China (Beijing) Region

How Amazon IoT Greengrass V1 differs

The following differences apply to Amazon IoT Greengrass V1:

- Currently, Amazon IoT Greengrass V1 is available in the China (Beijing) Region only.
- Amazon IoT Greengrass Core software v1.9.2 is the minimum supported version in the China (Beijing) Region.
- The following minimum versions of the Amazon IoT Greengrass Core SDK are supported:

Language or platform	Minimum version
Python 3.7	1.4.0
Java 8	1.3.1
Node.js 8.10	1.4.0
C, C++	1.1.0

- The China (Beijing) Region only supports Amazon Trust Services (ATS) server authentication, so you must use ATS-signed root CA certificates and ATS endpoints. For more information, see Server Authentication in the Amazon IoT guide.
  - Amazon Trust Services (ATS) endpoints in the China region are different from other global endpoints. For example, the Amazon IoT Greengrass V1 ATS endpoint in the China (Beijing) Region is `greengrass.ats.iot.cn-north-1.amazonaws.com.cn`. For more information, see China (Beijing) Region Endpoints in the Amazon Web Services General Reference.
- The default maximum number of transactions per second (TPS) on the Amazon IoT Greengrass V1 API is 10. For more information, see Amazon IoT Greengrass Limits in the Amazon Web Services General Reference.
- Currently, only the following connectors are supported in the China (Beijing) Region:
  - Modbus-RTU Protocol Adapter connector, v2
  - Raspberry Pi GPIO connector, v2
  - Serial Stream connector, v2

  - Docker application deployment connector, v4, v5, v6, and v7. Connector versions earlier than v7 don't support using secrets to access Docker images from private container registries or from Amazon Web Services Marketplace.
- Currently, Amazon IoT Device Tester for Amazon IoT Greengrass V1 is not available in the China (Beijing) Region.
- Currently, VPC endpoints (Amazon PrivateLink) for Amazon IoT Greengrass V1 are not available in the China (Beijing) Region.

Documentation

- Amazon IoT Greengrass Version 1 Developer Guide
- Amazon IoT Greengrass Version 1 API Reference

Amazon IoT Greengrass Version 2 in Amazon Web Services China

Amazon IoT Greengrass seamlessly extends Amazon onto physical devices so they can act locally on the data they generate, while still using the cloud for management, analytics, and durable storage. Amazon IoT Greengrass ensures your devices can respond quickly to local events and operate with intermittent connectivity. Amazon IoT Greengrass minimizes the cost of transmitting data to the cloud by enabling you to author custom software and Amazon Lambda functions that run on local devices.

Region availability

Amazon IoT Greengrass V2 is available in the following regions in China:

- China (Beijing) Region

How Amazon IoT Greengrass V2 differs

The following differences apply to Amazon IoT Greengrass V2:

- Currently, Amazon IoT Greengrass V2 is available in the China (Beijing) Region only.
- Amazon IoT Greengrass nucleus v2.0.5 is the minimum supported version in the China (Beijing) Region.
- Secret manager v2.0.5 is the minimum supported version in the China (Beijing) Region.

- The China (Beijing) Region only supports Amazon Trust Services (ATS) server authentication, so you must use ATS-signed root CA certificates and ATS endpoints. For more information, see Server Authentication in the Amazon IoT guide.
  - Amazon Trust Services (ATS) endpoints in the China region are different from other global endpoints. For example, the Amazon IoT Greengrass V2 ATS endpoint in the China (Beijing) Region is `greengrass.ats.iot.cn-north-1.amazonaws.com.cn`. For more information, see China (Beijing) Region Endpoints in the Amazon Web Services General Reference.
- Currently, Amazon IoT Device Tester for Amazon IoT Greengrass V2 is not available in the China (Beijing) Region.
- Currently, Amazon Lookout for Vision is not available in the China (Beijing) Region.

Documentation

- Amazon IoT Greengrass Version 2 Developer Guide
- Amazon IoT Greengrass Version 2 API Reference

Amazon IoT SiteWise in Amazon Web Services China

Easily collect, organize, and analyze data from industrial equipment at scale.

Region availability

Amazon IoT SiteWise is available in the following Amazon Web Services China Regions:

- China (Beijing)

How Amazon IoT SiteWise differs

- SiteWise Monitor supports IAM roles and users instead of Amazon IAM Identity Center for authentication to portals.
- While the edge processing feature is in preview, this feature isn't available in China (Beijing).

Documentation

- Amazon IoT SiteWise User Guide

- Amazon IoT SiteWise Application Guide
- Amazon IoT SiteWise API Reference

Amazon IoT TwinMaker in Amazon Web Services China

Amazon IoT TwinMaker is an Amazon IoT service that you can use to build operational digital twins of physical and digital systems.

Region availability

Amazon IoT TwinMaker is available in the following regions in China:

- China (Beijing) Region

How Amazon IoT TwinMaker differs

The following differences apply to Amazon IoT TwinMaker:

- The following features, which appear in the Amazon IoT TwinMaker documentation, are not available in the China (Beijing) Region.
- Bulk Import
- Auto-generate a new role when creating a workspace in the Amazon IoT TwinMaker console.

Documentation

- Amazon IoT TwinMaker User Guide
- Amazon IoT TwinMaker API Reference

Amazon Key Management Service in Amazon Web Services China

Amazon Key Management Service (Amazon KMS) makes it easy for you to create and manage keys and control the use of encryption across a wide range of Amazon services and in your applications. Amazon KMS is a secure and resilient service that uses hardware security modules to protect your

keys. Amazon KMS is integrated with Amazon CloudTrail to provide you with logs of all key usage to help meet your regulatory and compliance needs.

Region availability

Amazon Key Management Service (KMS) is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Key Management Service (KMS) differs

The following differences apply to Amazon Key Management Service (KMS):

- Custom Key Store is not available.
- External Key Store is not available.

- The ML-KEM post-quantum key encapsulation mechanism is not available.
- The hardware security modules (HSMs) that Amazon KMS uses to protect KMS keys in the China Regions comply with all pertinent Chinese regulations. Amazon KMS uses OSCCA certified HSMs to protect KMS keys in China Regions. However, KMS HSMs in China Regions have not been validated under the FIPS 140-2 Cryptographic Module Validation Program.
- To import key material into a symmetric encryption Amazon KMS key in China Regions, the key material must be 128-bits of binary data. Amazon KMS supports the SM2PKE wrapping algorithm in China Regions for wrapping imported RSA, ECC, and SM2 key material.
- The following custom key store management APIs are not available:
  - ConnectCustomKeyStore
  - CreateCustomKeyStore
  - DeleteCustomKeyStore
  - DescribeCustomKeyStores
  - DisconnectCustomKeyStore
  - UpdateCustomKeyStore

  If you attempt to use these APIs, you will get an *UnknownOperationException* exception.

- Amazon services that integrate with Amazon KMS in other Amazon Regions might not be integrated in the China Regions, even if those services are available in the China Regions. To find a list of services that integrate with Amazon KMS in the China Regions, see Amazon Service Integration.
- The Amazon KMS Cryptographic Details documentation that is discussed in the Amazon Key Management Service Developer Guide does not describe the implementation of Amazon KMS in the China Regions.
- You can use the multi-Region keys feature to replicate KMS keys within the China Regions partition (`aws-cn`).
  - You can replicate a primary key from the China (Beijing) to the China (Ningxia), or the reverse. By replicating a key from one China Region to another, you agree to use the Amazon Key Management Service of that region and comply with all applicable terms of agreement for that region.
  - You cannot replicate a primary key from the China (Beijing) or China (Ningxia) Region into a Region outside of the China Regions partition. Similarly, you cannot replicate a key from a region outside of the China Regions partition into the China (Beijing) and China (Ningxia) Regions.
  - In China Regions, Amazon KMS supports the SM2 key exchange protocol (SM2KEP) to securely replicate a multi-Region primary key from one China Region to another.

Documentation

- Amazon Key Management Service Developer Guide
- Amazon Key Management Service API Reference

Amazon Keyspaces (for Apache Cassandra) in Amazon Web Services China

Amazon Keyspaces (for Apache Cassandra) is a scalable, highly available, and managed Apache Cassandra–compatible database service.

Region availability

Amazon Keyspaces (for Apache Cassandra) is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Keyspaces (for Apache Cassandra) differs

- Service-specific credentials for Amazon Keyspaces are associated with a specific Amazon Identity and Access Management (IAM) user. To access Amazon Keyspaces in the China (Beijing) and China (Ningxia) Regions, you must use service-specific credentials for IAM users in these Regions. You cannot use service specific credentials for IAM users created for other Amazon Regions.
- Amazon Keyspaces Multi-Region Replication is not available.

Documentation

- Amazon Keyspaces Developer Guide

Amazon Kinesis Data Streams in Amazon Web Services China

Kinesis is a platform for streaming data on Amazon, offering managed services to make it easy to load and analyze streaming data, and also providing the ability for you to build custom streaming data applications for specialized needs.

Amazon Kinesis Data Streams is a managed service that scales elastically for real-time processing of streaming data at a massive scale. The service collects large streams of data records that can then be consumed in real time by multiple data-processing applications that can be run on EC2 instances.

Region availability

Amazon Kinesis Data Streams is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Kinesis Data Streams differs

- Amazon Kinesis Analytics is not available in the China Regions.

Documentation

- Amazon Kinesis Data Streams Developer Guide
- Amazon Kinesis Data Streams API Reference

Amazon Kinesis Video Streams in Amazon Web Services China

Amazon Kinesis Video Streams is a fully managed Amazon service that you can use to stream live video from devices to the Amazon Cloud, or build applications for real-time video processing or batch-oriented video analytics.

Region availability

Amazon Kinesis Video Streams is available in the following Amazon Web Services China Regions:

- China (Beijing)

How Amazon Kinesis Video Streams differs

- The WebRTC Ingestion feature from the Kinesis Video Streams with WebRTC Developer Guide will not be available in BJS.
- The WebRTC Ingestion API features from the Kinesis Video Streams Developer Guide will not be available in BJS.
- The Edge SDK features (getting started guide and APIs) from the Kinesis Video Streams Developer Guide will not be available in BJS.

Documentation

- Kinesis Video Streams Developer Guide
- Kinesis Video Streams with WebRTC Developer Guide
- Kinesis Video Streams API Reference

Amazon Lake Formation in Amazon Web Services China

Amazon Lake Formation is a managed service that makes it easy to set up, secure, and manage your data lakes. Lake Formation helps you discover your data sources and catalog, cleanse, and transform the data. You can use Lake Formation to secure and ingest the data in an Amazon Simple Storage Service (Amazon S3) data lake.

Region availability

Amazon Lake Formation is available in the following regions in China:

- China (Beijing) Region

How Amazon Lake Formation differs

The following differences apply to Amazon Lake Formation:

- Granting Lake Formation permissions across accounts is not available. Using Amazon analytics services such as Amazon Athena in one account to access data that is secured by Lake Formation permissions on Data Catalog tables in another account is not available.
- Amazon Quick integration with Lake Formation is not available.

Documentation

- Amazon Lake Formation Developer Guide

Amazon Lambda in Amazon Web Services China

Amazon Lambda is a compute service that lets you run code without provisioning or managing servers. Amazon Lambda executes your code only when needed and scales automatically, from a few requests per day to thousands per second. You pay only for the compute time you consume —there is no charge when your code is not running. With Amazon Lambda, you can run code for virtually any type of application or backend service—all with zero administration. Amazon Lambda runs your code on a high-availability compute infrastructure and performs all of the administration of the compute resources, including server and operating system maintenance, capacity provisioning and automatic scaling, code monitoring and logging. All you need to do is

supply your code in one of the languages that Amazon Lambda supports (currently Node.js, Java, C#, Go and Python).

Region availability

Amazon Lambda is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Lambda differs

The following differences apply to Amazon Lambda:

- Amazon X-Ray integration with Lambda functions is not available in the China Regions.
- Amazon Lambda Function URLs is not available in the China Regions.
- The asynchronous invocation metrics, `AsyncEventsReceived`, `AsyncEventAge`, and `AsyncEventsDropped` are not available in the China Regions.
- Multi-VPC connectivity for Amazon MSK event source mappings is not available in the China Regions.
- The Future runtime launch dates are not applicable in the China Regions.
- Lambda recursive loop detection is not available in the China Regions.
- The Amazon CloudWatch Logs Live Tail integration in the Lambda console is not available in the China Regions.
- Amazon KMS customer managed key encryption for .zip deployment packages is not available in the China Regions.
- Lambda SnapStart for Python and .NET is not available in the China Regions.
- CloudWatch Application Signals for Lambda functions is not available in the China Regions.
- Event source mapping metrics are not available in the China Regions.
- Event source mapping tags are not available in the China Regions.
- Event source mapping event filtering and filter criteria encryption are not available in the China Regions.
- Provisioned mode for event source mappings is not available in the China Regions.
- Amazon S3 as a destination for Kinesis, DynamoDB, and async invoke is not available in the China Regions.

- Monitoring Lambda function logs with Amazon S3 or Firehose is not yet available in the China Regions.
- Schema registry support for Kafka event sources is not available in the China Regions.
- The deprecation schedule for the .NET 6 runtime in the China Regions is different from the schedule provided in the Lambda Developer Guide.

  Lambda will deprecate the .NET 6 runtime on July 31, 2025. We recommend that you migrate .NET 6 functions to .NET 8, which is now available in the China Regions. Until the deprecation date, Lambda will continue to apply patches to the .NET 6 operating system (OS), but not to the .NET 6 language runtime.

Documentation

- Amazon Lambda Developer Guide and API Reference

Amazon Launch Wizard in Amazon Web Services China

Amazon Launch Wizard helps you reduce the time that it takes to deploy application and domain-controller solutions to the cloud. You provide your application or domain controller requirements, and Amazon Launch Wizard identifies the right Amazon resources to deploy and run your solution. Amazon Launch Wizard provisions and configures the selected resources in a few hours to create fully-functioning, production-ready applications or domain controllers. It also creates custom Amazon CloudFormation templates, which you can reuse and customize for subsequent deployments.

Region availability

Amazon Launch Wizard is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Launch Wizard differs

The following differences apply to Amazon Launch Wizard:

- The Cost Estimator feature is not available in the China (Beijing) and China (Ningxia) Regions.

- The following workloads are not available in the China (Beijing) and China (Ningxia) Regions:
  - Amazon Launch Wizard for Active Directory
  - Amazon Launch Wizard for Elastic Kubernetes Service
  - Amazon Launch Wizard for Exchange Server
  - Amazon Launch Wizard for Internet Information Services
  - Amazon Launch Wizard for Remote Desktop Gateway

Documentation

- User Guide

Amazon License Manager in Amazon Web Services China

Amazon License Manager makes it easier to manage licenses in Amazon and on-premises servers from software vendors such as Microsoft, SAP, Oracle, and IBM. Amazon License Manager lets administrators create customized licensing rules that emulate the terms of their licensing agreements, and then enforces these rules when an instance of EC2 gets launched. Administrators can use these rules to limit licensing violations, such as using more licenses than an agreement stipulates or reassigning licenses to different servers on a short-term basis. The rules in Amazon License Manager enable you to limit a licensing breach by stopping the instance from launching or by notifying administrators about the infringement. Administrators gain control and visibility of all their licenses with the Amazon License Manager dashboard and reduce the risk of non-compliance, misreporting, and additional costs due to licensing overages.

Region availability

Amazon License Manager is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon License Manager differs

- Software vendors can issue licenses for only Amazon. Token generation for license consumption outside of Amazon is not available.

- License sharing using Resource share is not available.
- The user-based subscriptions feature is not available.

Documentation

- Amazon License Manager User Guide
- Amazon License Manager API Reference

Amazon Web Services Local Zones in Amazon Web Services China

Amazon Local Zones places compute, storage, database, and other select Amazon resources close to large population and industry centers.

Amazon Local Zones in Beijing helps support the workloads related to intelligent automotive technology for car manufacturers and automotive companies. To learn more, see Amazon Automotive Cloud Solutions and Amazon China Gateway, a one-stop service to help global customers leverage Amazon Web Services China.

Available Local Zone

Amazon Local Zones is available in the China (Beijing) Region in China.

The following terms are identifying details associated with the Local Zone:

- Local Zone Group Long Name: China (Beijing)
- Local Zone Name: cn-north-1-pkx-1a
- Local Zone ID: cnn1-pkx1-az1

How Amazon Local Zones differs

The following differences apply to Amazon Local Zones:

- The following Amazon services are available:
  - Amazon Elastic Compute Cloud

  - Amazon Virtual Private Cloud
  - Amazon Elastic Block Store
  - Amazon Elastic Kubernetes Service
  - Amazon Elastic Container Service
  - Amazon EMR
  - Amazon Direct Connect
  - Amazon Simple Storage Service
- The following Amazon EC2 instances are available:
  - C6i
  - C6gn
  - G5
  - M6i
  - R6i
- The following Amazon EBS volume types are available:
  - gp2
  - gp3
  - io1
  - sc1
  - st1
- You can use the following Amazon services that orchestrate or work with local services:
  - Amazon EC2 Auto Scaling
  - Amazon EC2 Systems Manager
  - Amazon CloudWatch
  - Amazon CloudTrail
  - Amazon CloudFront

Documentation

- Amazon Local Zones

Amazon Managed Service for Apache Flink in Amazon Web Services China

Process and analyze streaming data using SQL or Java.

Region availability

Amazon Managed Service for Apache Flink is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Managed Service for Apache Flink differs

There are no differences for this service.

Documentation

- Developer Guide for SQL Applications
- Developer Guide for Java Applications
- API Reference
- SQL Reference

Amazon Managed Streaming for Apache Kafka in Amazon Web Services China

Amazon Managed Streaming for Apache Kafka (Amazon MSK) is a fully managed service that makes it easy for you to build and run applications that use Apache Kafka to process streaming data.

Region availability

Amazon Managed Streaming for Apache Kafka (MSK) is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Managed Streaming for Apache Kafka (MSK) differs

There are no differences for this service.

Documentation

- Amazon Managed Streaming for Apache Kafka Developer Guide
- Amazon Managed Streaming for Apache Kafka API Reference

Amazon Managed Workflows for Apache Airflow in Amazon Web Services China

Amazon Managed Workflows for Apache Airflow is a managed orchestration service for Apache Airflow that you can use to setup and operate data pipelines in the cloud at scale. Apache Airflow is an open-source tool used to programmatically author, schedule, and monitor sequences of processes and tasks referred to as *workflows*. With Amazon MWAA, you can use Apache Airflow and Python to create workflows without having to manage the underlying infrastructure for scalability, availability, and security. Amazon MWAA automatically scales its workflow execution capacity to meet your needs, and Amazon MWAA integrates with Amazon security services to help provide you with fast and secure access to your data.

Region availability

Amazon Managed Workflows for Apache Airflow (MWAA) is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Managed Workflows for Apache Airflow (MWAA) differs

There are no differences for this service.

Documentation

- Amazon MWAA User Guide
- Amazon MWAA API Reference

Amazon Web Services Management Console in Amazon Web Services China

The Amazon Web Services Management Console provides access and management of Amazon Web Services through a simple and intuitive web-based user interface. You can manage all aspects of your Amazon Web Services China account, including monitoring your monthly spending by service, managing security credentials, and setting up new IAM users. The console also provides tools that can help you locate and navigate to services of interest. You can select services from the *Recently visited services* section, expand the *All services* section, and search for services by name or keyword.

Region availability

Amazon Web Services Management Console is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Web Services Management Console differs

The following differences apply to Amazon Web Services Management Console:

- Resource Groups are unsupported in China (Beijing) and China (Ningxia) Regions.
- The Tag Editor is unsupported in China (Beijing) and China (Ningxia) Regions.
- The console is unavailable as a mobile app in China (Beijing) and China (Ningxia) Regions.
- Unified Search only supports service and feature searches in China (Beijing) and China (Ningxia) Regions.
- myApplications is unavailable in China (Beijing) and China (Ningxia) Regions.
- Multi-session support is unvailable in China (Beijing) and China (Ningxia) Regions.
- User Experience Customization is unavailable in China (Beijing) and China (Ningxia) Regions.

Documentation

- Amazon Web Services Management Console Getting Started Guide

Amazon Web Services Marketplace in Amazon Web Services China

Amazon Web Services Marketplace is a curated digital catalog that makes it easy for customers to find, buy, deploy, and manage third-party software and services that customers need to build solutions and run their businesses. Amazon Web Services Marketplace also simplifies software licensing and procurement with flexible pricing options and multiple deployment methods.

Amazon Web Services Marketplace China is a standalone online store operated by Ningxia Western Cloud Data Technology Co., Ltd. (NWCD). It covers catalog entries subscribed to for both the China (Beijing) Region and China (Ningxia) Region.

Region availability

Amazon Web Services Marketplace is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Web Services Marketplace differs

The following differences apply to Amazon Web Services Marketplace:

As a seller:

- You must be a business entity registered in mainland China and have a valid Amazon Web Services China account.
- You must be an Amazon Web Services China customer in good standing and meet the requirements in the terms and conditions for Amazon Web Services Marketplace China sellers.
- You must follow best practices and guidelines when marketing your product in Amazon Web Services Marketplace China.
- Contact us if you are interested in selling in Amazon Web Services Marketplace China.

As a buyer:

- You must have an Amazon Web Services China account to use Amazon Web Services Marketplace China.
- You can browse the software through Amazon Web Services Marketplace China website. After logging in to your Amazon Web Services China account, you can also find the product listings on the Amazon Web Services Marketplace tab of the launch instance page in the Amazon EC2 console.
- You can review and cancel your software subscription.

Documentation

Related Guides

- Amazon Web Services Marketplace China Seller Guide (English, Chinese)
- Amazon Web Services Marketplace China Buyer Guide (English, Chinese)
- Amazon Web Services Marketplace China FAQ page

Amazon MemoryDB in Amazon Web Services China

Amazon MemoryDB (MemoryDB) is a fully managed, Redis-compatible, in-memory database that delivers ultra-fast performance and Multi-AZ durability for modern applications built using microservices architectures.

Region availability

Amazon MemoryDB is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon MemoryDB differs

- PrivateLink feature is not available in these Regions.

Documentation

- Developer Guide
- API Reference

Amazon MQ in Amazon Web Services China

Amazon MQ is a managed message broker service that makes it easy to set up and operate message brokers in the cloud. Amazon MQ provides interoperability with your existing applications and services. Amazon MQ works with your existing applications and services without the need to manage, operate, or maintain your own messaging system.

Region availability

Amazon MQ is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon MQ differs

There are no differences for this service.

Documentation

- Amazon MQ Developer Guide
- Amazon MQ REST API Reference
- Migration Guide

Amazon Neptune in Amazon Web Services China

Amazon Neptune is a fast, reliable, fully managed graph database service that makes it easy to build and run applications that work with highly connected datasets. The core of Neptune is a purpose-built, high-performance graph database engine that is optimized for storing billions of relationships and querying the graph with milliseconds latency. Neptune supports the popular graph query languages Apache TinkerPop Gremlin and W3C's SPARQL, allowing you to build

queries that efficiently navigate highly connected datasets. Neptune powers graph use cases such as recommendation engines, fraud detection, knowledge graphs, drug discovery, and network security.

Region availability

Amazon Neptune is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Neptune differs

There are no differences for this service.

Documentation

- Neptune User Guide

Amazon Network Firewall in Amazon Web Services China

Amazon Network Firewall is a stateful, managed, network firewall and intrusion detection and prevention service for your virtual private cloud (VPC).

Region availability

Amazon Network Firewall is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Network Firewall differs

There are no differences for this service.

Documentation

- Amazon Network Firewall Developer Guide

- Amazon Network Firewall API Reference

Amazon OpenSearch Service in Amazon Web Services China

Amazon OpenSearch Service (the successor to Amazon Elasticsearch Service) is a managed service that makes it easy to deploy, operate, and scale OpenSearch and legacy Elasticsearch OSS clusters in the Amazon Web Services Cloud. OpenSearch is a popular open-source search and analytics engine for use cases such as log analytics, real-time application monitoring, and clickstream analytics.

Region availability

Amazon OpenSearch Service is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How OpenSearch Service differs

The following differences apply to Amazon OpenSearch Service:

- Only some OpenSearch Service instance types are available.
- Amazon Cognito authentication for OpenSearch Dashboards is not available.

Documentation

- Amazon OpenSearch Service Developer Guide

Amazon Organizations in Amazon Web Services China

Amazon Organizations helps you centrally manage and govern your environment as you grow and scale your Amazon resources. Using Organizations, you can create accounts and allocate resources, group accounts to organize your workflows, apply policies for governance, and simplify billing by using a single payment method for all of your accounts.

Region availability

Amazon Organizations is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Organizations differs

The following differences apply to Amazon Organizations:

- Declarative policies – You can't use the following declarative policy types in an organization in the China (Beijing) and China (Ningxia) Regions:
  - Chat applications policies
  - AI services opt-out policies
  - Bedrock policies
  - Shield Network Security Director policies
- Multi-party approval – Multi-party approval is not available in the China (Beijing) and China (Ningxia) Regions.

The following features are limited in the China (Beijing) and China (Ningxia) Regions:

- Tag policies – when creating a tag report with the `StartReportCreation` operation, you must call that operation from the China (Ningxia) Region (`cn-northwest-1`).
- Account quotas – The maximum number of accounts allowed in an organization in the China (Beijing) and China (Ningxia) Regions is 5,000.

To learn what Amazon services are currently available for use with Amazon Organizations, check the list in the Amazon Organizations console for your region.

Documentation

- Amazon Organizations User Guide
- Amazon Organizations API Reference

Amazon ParallelCluster in Amazon Web Services China

Amazon ParallelCluster is an Amazon supported open source cluster management tool that helps you to deploy and manage high performance computing (HPC) clusters in the Amazon Web Services Cloud.

Region availability

Amazon ParallelCluster is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon ParallelCluster differs

The following differences apply to Amazon ParallelCluster:

- Elastic Fabric Adapter (EFA) is not available.

Documentation

- Amazon ParallelCluster User Guide (v3)
- Amazon ParallelCluster User Guide (v2)

Amazon Personalize in Amazon Web Services China

Amazon Personalize is a machine learning service that makes it easy for developers to add individualized recommendations to customers who use their applications. It reflects the vast experience that Amazon has in building personalization systems.

You can use Amazon Personalize in a variety of scenarios, such as giving users recommendations based on their preferences and behavior, personalized re-ranking of results, and personalizing content for emails and notifications.

Region availability

Amazon Personalize is available in the following regions in China:

- China (Beijing) Region

How Amazon Personalize differs

The following differences apply to Amazon Personalize:

- The Next-Best-Action recipe is not available.
- Generating themes for similar items with a batch inference job is not available.
- Including item metadata with recommendations is not available.
- Importing data with Amazon SageMaker AI Data Wrangler (Data Wrangler) is not available.
- Currently, only the China (Beijing) Amazon Region is supported.

Documentation

- Amazon Personalize Developer Guide

Amazon Polly in Amazon Web Services China

Amazon Polly is a cloud service that converts text into lifelike speech. You can use Amazon Polly to develop applications that increase engagement and accessibility. Amazon Polly supports multiple languages and includes a variety of lifelike voices, so you can build speech-enabled applications that work in multiple locations and use the ideal voice for your customers.

Region availability

Amazon Polly is available in the following regions in China:

- China (Ningxia) Region

How Amazon Polly differs

The following differences apply to Amazon Polly:

- Currently, only the China (Ningxia) Amazon Region is supported.

Documentation

- Amazon Polly Developer Guide

Amazon Pricing Calculator in Amazon Web Services China

Amazon Pricing Calculator is a web service that you can use to create cost estimates that match your Amazon Web Services use case. Amazon Pricing Calculator is useful both for people who have never used Amazon Web Services and for those who want to reorganize or expand their usage.

Region availability

Amazon Pricing Calculator is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Pricing Calculator differs

The following differences apply to Amazon Pricing Calculator:

- Save and Share feature is not available.

Documentation

- Amazon Pricing Calculator User Guide

Amazon Private Certificate Authority in Amazon Web Services China

Amazon Private Certificate Authority enables creation of private certificate authority (CA) hierarchies, including root and subordinate CAs, without the investment and maintenance costs of operating an on-premises CA.

Region availability

Amazon Private Certificate Authority is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Private Certificate Authority differs

The following differences apply to Amazon Private Certificate Authority:

- Private CA Connector for Active Directory is not available.
- Private CA Connector for SCEP is not available.

- When calling CreateCertificateAuthority you can only specify CCPC_LEVEL_1_OR_HIGHER for KeyStorageSecurityStandard.
- CertificateAuthorityConfiguration contains special values only for use in China (Beijing) Region and China (Ningxia) Region:
  - SM2 for `KeyAlgorithm`.
  - SM3WITHSM2 for `SigningAlgorithm`.

Documentation

- Amazon Private Certificate Authority Developer Guide
- Amazon Private Certificate Authority API Reference

Quick in Amazon Web Services China

Quick is a fast business analytics service to build visualizations, perform ad hoc analysis, and quickly get business insights from your data. Quick seamlessly discovers Amazon data sources, enables organizations to scale to hundreds of thousands of users, and delivers fast and responsive query performance by using the Quick Super-fast, Parallel, In-Memory, Calculation Engine (SPICE).

Region availability

Quick is available in the following regions in China:

- China (Beijing) Region

How Quick differs

The following differences apply to Quick:

- Quick Standard Edition accounts are not available in China (Beijing) Region. Only Quick Enterprise edition is available.
- IAM-federated identities and Quick managed users are not available for new Quick account subscriptions. The following identity methods are available in China (Beijing) Region:
  - IAM Identity Center
  - Active Directory
- Quick Q is not available in China (Beijing) Region.
- The Quick mobile app is not available in China (Beijing) Region.
- Geospatial maps are not available for analyses in China (Beijing) Region.
- The following data source types are not available in China (Beijing) Region:
  - Amazon IoT
  - Amazon Timestream
  - Adobe Analytics
  - GitHub
  - Jira
  - Salesforce
  - ServiceNow
- Namespaces to support multitenancy and isolation within the same Quick account are not available in China (Beijing) Region. Only the default namespace is supported.
- Granting access to a dashboard to anyone on the internet (globally or domestic) is not available in China (Beijing) Region.
- Service built-in tutorial videos are not available in China (Beijing) Region.
- Custom email report templates are not available in China (Beijing) Region.

- New users can't be added to a Quick account through the Admin console. To add a new user to a Quick account, use the Quick API.

Documentation

- Amazon Quick User Guide
- Quick API Reference

Amazon Relational Database Service (Amazon RDS) in Amazon Web Services China

Amazon Relational Database Service (Amazon RDS) is a web service that makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database administration tasks, freeing you up to focus on your applications and business.

Region availability

Amazon Relational Database Service is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon RDS differs

The following differences apply to Amazon Relational Database Service:

- Cross-region features, such as DB snapshot copying across regions and read replication across multiple regions, are not available between the China (Beijing) Region and other non-China Regions.
- Backup and maintenance windows:
  - If you don't specify a preferred backup window when you create the DB instance, Amazon RDS assigns a default 30-minute backup window which is selected at random from between 06:00 and 14:00 UTC.

  - If you don't specify a preferred maintenance window when you create the DB instance, Amazon RDS assigns a default 30-minute maintenance window on a randomly selected day of the week from between 06:00 and 14:00 UTC.
- For current information on DB Instance classes, see Amazon RDS Pricing.
- You can have up to 20 manual snapshots for your account in the China (Beijing) and China (Ningxia) Regions.
- Since the China (Ningxia) Region uses a unique certificate authority (CA), update your DB instances for the China (Ningxia) Region to use the Region-specific certificate identified by `rds-ca-rsa2048-g1` in DescribeCertificates calls as soon as possible. The remaining instructions described in the Rotating your SSL/TLS certificate topic are the same, except for the certificate identifier.
- Zero-ETL integration with SageMaker Lakehouse isn't available.

Documentation

- Amazon RDS User Guide
- Amazon RDS API Reference

Amazon Redshift in Amazon Web Services China

Amazon Redshift is an enterprise-level, petabyte-scale, fully managed, data warehousing service.

Region availability

Amazon Redshift and Amazon Redshift Spectrum are available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Redshift differs

The following differences apply to Amazon Redshift:

- Database encryption is supported only when using a default encryption key assigned by Amazon Redshift or when using Amazon Key Management Service (Amazon KMS). Amazon CloudHSM is not available.
- Cross-region features, such as snapshot copying across regions and COPY from another region, are currently supported only between the China (Beijing) and China (Ningxia) Regions.
- The Amazon Redshift Getting Started Guide guide and some tutorials in the Amazon Redshift Database Developer Guide use sample data hosted on Amazon S3 buckets that are not accessible in the China (Beijing) and China (Ningxia) Regions.
- The following features are not available:
  - Amazon Q generative SQL

Documentation

- Amazon Redshift Getting Started Guide
- Amazon Redshift Management Guide
- Amazon Redshift Database Developer Guide
- Using Amazon Redshift Spectrum
- Amazon Redshift API Reference

Amazon Resource Access Manager in Amazon Web Services China

Amazon Resource Access Manager (Amazon RAM) helps you securely share your Amazon Web Services within your organization or organizational units (OUs) in Amazon Organizations, and with Amazon Web Services accounts. For supported resource types, you can also share resources with Amazon Identity and Access Management (IAM) roles and IAM users. If you have multiple Amazon Web Services accounts, you can create a resource once and use Amazon RAM to share that resource across accounts.

Region availability

Amazon Resource Access Manager (RAM) is available in the following Amazon Web Services China Regions:

- China (Beijing)

- China (Ningxia)

How Amazon Resource Access Manager (RAM) differs

- **Resources that are not available for sharing** – Unless otherwise noted, Amazon RAM does not support resource sharing for the following services in the China (Beijing) and China (Ningxia) Regions:
  - Amazon App Mesh
  - Amazon Aurora
  - Amazon Private Certificate Authority
  - Amazon License Manager
  - Amazon Network Firewall
  - Amazon Outposts
  - Amazon Resource Groups
  - Amazon Route 53

    The following resource type is not available for sharing in the China (Beijing) and China (Ningxia) Regions: Route 53 resolver firewall groups.
  - Amazon Systems Manager Incident Manager
  - Amazon VPC

    The following resource type is not available for sharing in the China (Beijing) and China (Ningxia) Regions: prefix lists.
- **Resources that are supported for sharing with limitations** – Unless otherwise noted, in the China (Beijing) and China (Ningxia) Regions, Amazon RAM does not support resource sharing for the following services within Amazon Organizations. However, you can still share resources with individual Amazon Web Services accounts. For supported resource types, you can also share resources with IAM roles or IAM users who are outside your organization. In this case, these principals are treated as external principals. They receive an invitation to join the resource share, and they must accept the invitation to gain access to the shared resources.
  - Amazon CodeBuild
  - EC2 Image Builder
  - Amazon Glue
  - Amazon Route 53: Resolver query logging configurations.

- Amazon SageMaker AI

Documentation

- Amazon RAM User Guide

  Amazon RAM API Reference

Amazon Resource Groups in Amazon Web Services China

Amazon Resource Groups lets you organize Amazon resources into groups, tag resources using virtually any criteria, and manage, monitor, and automate tasks on grouped resources.

Region availability

Amazon Resource Groups is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Resource Groups differs

The following differences apply to Amazon Resource Groups:

- Group lifecycle events are not available.

Documentation

- Amazon Resource Groups & Tag Editor User Guide
- Amazon Resource Groups API Reference
- Amazon Tagging API Reference

How Amazon Resource Explorer differs in Amazon Web Services China

Amazon Resource Explorer is a resource search and discovery service that lets you explore your resources using an internet search engine-like experience. You can search for your resources using resource metadata like names, tags, and IDs.

Region availability

Amazon Resource Explorer is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Resource Explorer differs

The following differences apply to Amazon Resource Explorer:

- Unified search from the Amazon Web Services Management Console search bar isn't available.

Documentation

- Amazon Resource Explorer User Guide
- Amazon Resource Explorer API Reference

Amazon Route 53 in Amazon Web Services China

Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service.

Region availability

Amazon Route 53 is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Route 53 differs

The following differences apply to Amazon Route 53:

- You can't use Route 53 to register domains. However, you can create a hosted zone in one of the China Regions, and associate the name servers for that hosted zone with a domain that you registered using a global account or that you registered with another domain registrar.
- The `TestDNSAnswer` API is not available.
- Traffic flow is not available.
- You can't create alias records that route traffic to Amazon resources outside the China Regions.
- When creating alias records programmatically and routing traffic to an Amazon CloudFront distribution, use the following hosted zone ID: `Z3RFFRIM2A3IF5`.
- You can add an alias record to an Amazon Elastic Beanstalk environment in China (Ningxia) Region only by using the `ChangeResourceRecordSets` API, but not on the console. When you programmatically create an alias record to an Amazon Elastic Beanstalk, use the following hosted zone ID: `ZB5H67MZE5736`.
- Recursive DNS resolvers can only use use IPv4 transport to submit DNS queries to Amazon Route 53.
- Route 53 DNSSEC signing is not available in China.
- Route 53 Resolver DNS Firewall is supported in China with the following differences:
  - You can use Amazon Resource Access Manager to share DNS Firewall rule groups with Amazon Web Services accounts.

Documentation

- Amazon Route 53 Developer Guide
- Amazon Route 53 API Reference

Amazon Simple Storage Service in Amazon Web Services China

Amazon S3 is storage for the Internet. It provides a simple web service interface that can be used to store and retrieve any amount of data, at any time, from anywhere on the web. It gives any developer access to the same highly scalable, reliable, secure, fast, inexpensive infrastructure that

Amazon uses to run its own global network of web sites. The service aims to maximize benefits of scale and to pass those benefits on to developers.

Region availability

Amazon S3 is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon S3 differs

The following differences apply to Amazon Simple Storage Service:

- Creating an Amazon Web Services account

  To publish content in the China (Beijing) and China (Ningxia) Regions, you must sign up for an Amazon Web Services China account, which is specific to the China (Beijing) and China (Ningxia) Regions. This account will not work in other Amazon Regions, and an account that was created in a different Region will not work in the China Regions. For information about signing up for the China (Beijing) Region, see Signup.
- Filing for Internet Content Provider (ICP) recordal:

  If you want to publish content in the China (Beijing) or China (Ningxia) Regions that can be read without authentication, you must obtain an ICP license. For information about filing for ICP recordal, see ICP Recordal.
- If you want to deposit reports into an Amazon S3 bucket, in your policy, you must specify 145026535362 (instead of 386209384616) for the account ID. For more information, see Example 8: Deposit Reports into an Amazon S3 Bucket in the *Amazon Billing User Guide*.
- Although the Detailed Billing Report feature is unavailable for many new customers as of July 2019, this feature remains available in the China (Beijing) and China (Ningxia) Regions.
- The following Amazon S3 features are either unavailable in the China Regions or require an ICP license:
  - Amazon S3 objects honor anonymous GET requests only if the object owner's Amazon Web Services China account is associated with a valid ICP license. As a result, hosting a static website from an Amazon S3 bucket and using pre-signed URLs require an ICP license.

- Amazon S3 supports both the Signature Version 4 and Signature Version 2; however, only Signature Version 4 is supported in the China Regions. For information about Signature Version 4 authorization headers, see Authenticating Requests (Amazon Signature Version 4).
- Website hosting:
  - In accordance with Chinese laws and regulations, ports 80/8080/443 are closed by default in the China Regions.
  - You can configure your bucket to host a static website, but it is recommended that your Amazon Web Services China account is associated with an ICP license. To apply for an ICP license, follow the ICP Recordal steps.
  - In Amazon S3, support for custom domain names relies on Amazon Route 53. Route 53 is available in the China (Ningxia) Region to create and manage DNS records for an existing domain. To configure a custom domain name for a static website hosted in Amazon S3, see Setting up a static website using a custom domain in the *Amazon S3 User Guide*. For a complete list of Amazon S3 website endpoints and Route 53 Hosted Zone IDs, see Amazon S3 website endpoints in the *Amazon General Reference*.
- Presigned URLs work only if the resource owner has an ICP license.

  Your request must provide credentials explicitly. Any other form of request is considered anonymous, including the presigned URL. Anonymous requests are allowed only if the resource owner has an ICP license.

  Because a signing key in Signature Version 4 is valid for only seven days, presigned URLs are also valid for up to seven days.

  Presigned URLs aren't supported in the S3 console.
- S3 Object Lambda Access Points in China (Beijing) (cn-north-1) and China (Ningxia) (cn-northwest-1) don't support authentication with presigned urls. It is advised that you make authenticated calls directly to the S3 Object Lambda Access Point.
- Any copy operation between the China Regions and Amazon Web Services Regions outside of China is not available.
- Cross-region replication (CRR) is not available between the China Regions and Amazon Web Services Regions outside of China.
- Amazon S3 Transfer Acceleration is not available in China (Beijing) and China (Ningxia) Regions.

- Bucket permissions check in the Amazon S3 console is not available in China (Beijing) and China (Ningxia) Regions.
- Amazon S3 Multi-Region Access Points is not available in the China Regions.
- Amazon S3 Express One Zone is not available in the China Regions.
- Amazon S3 Tables replication is not available in the China Regions.
- Amazon S3 Vectors integration with Amazon Bedrock and Amazon OpenSearch Service is not available in the China Regions.
- You cannot use S3 access points to access file data stored on Amazon FSx file systems.

Documentation

- Amazon Simple Storage Service User Guide
- Amazon S3 API Reference

Amazon SageMaker AI in Amazon Web Services China

Amazon SageMaker AI is a fully managed machine learning service. With SageMaker AI, data scientists and developers can quickly build and train machine learning models and then deploy them into a production-ready hosted environment.

Region availability

Amazon SageMaker AI is available in the following Amazon Web Services Regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How SageMaker AI differs

The following differences apply to Amazon SageMaker AI:

- Amazon Augmented AI (Amazon A2I) is not available.
- Amazon SageMaker Canvas is not available.
- Amazon SageMaker Edge Manager is not available.
- Amazon SageMaker Elastic Inference is not available.

- Amazon SageMaker geospatial capabilities are not available.
- Amazon SageMaker Ground Truth is not available.
- Amazon SageMaker Ground Truth Plus is not available.
- Amazon SageMaker Inference Recommender is not available.
- Amazon SageMaker model registry and projects are not available.
- Reinforcement learning is not available.
- Amazon SageMaker Serverless Inference is not available.
- Amazon SageMaker Studio, the new integrated development environment (IDE) for machine learning in SageMaker AI, is not available. However, the previous Amazon SageMaker Studio experience, now named Amazon SageMaker Studio Classic, is available.
- Amazon SageMaker Studio Lab is not available.
- Amazon SageMaker Training Compiler is not available.

The following SageMaker AI features are limited in the China (Beijing) and China (Ningxia) Regions:

- Amazon SageMaker Domain: On-boarding with Amazon SageMaker Domain is limited to Amazon Identity and Access Management (IAM).
- Amazon SageMaker Autopilot: Configuring the default parameters of a SageMaker Autopilot experiment (for administrators) is not available.
- Amazon SageMaker JumpStart is only supported in China (Beijing) Region.
- The following features are not available for Amazon SageMaker Inference.
  - Multi-model endpoints on GPU instances
  - Graviton-based, Inferentia-based, p4d, and g5 instance types
  - Increased shared memory size to almost half of instance memory
  - Deployment guardrails
  - `EndpointConfig` parameters `ContainerStartupHealthCheckTimeoutInSeconds`, `ModelDataDownloadTimeoutInSeconds`, and `VolumeSizeInGB`
- Amazon Web Services Marketplace China: You can't create and list your SageMaker AI artifacts in Amazon Web Services Marketplace China.

Documentation

- Amazon SageMaker AI Developer Guide

- Amazon SageMaker AI API Reference

SAP HANA on Amazon in Amazon Web Services China

The SAP HANA on Amazon technical documentation provides information for SAP HANA on Amazon users and partners, including information about planning, migrating, implementing, configuring, and operating your SAP HANA environment on the Amazon Web Services Cloud.

Region availability

SAP HANA on Amazonis available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How SAP HANA on Amazon differs

There are no differences for this service.

Documentation

- SAP HANA on Amazon Guides

Database Savings Plans in Amazon Web Services China

Savings Plans offer a flexible pricing model that provides savings on Amazon usage. You can save on your Amazon compute workloads in exchange for a commitment of using a specified amount of compute power (measured per hour) for a one or three year period.

Region availability

Database Savings Plans is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Database Savings Plans differs

- Savings Plans in Amazon Web Services China have two separate endpoints:
  - China (Beijing) Region: savingsplans.cn-north-1.amazonaws.com.cn
  - China (Ningxia) Region: savingsplans.cn-northwest-1.amazonaws.com.cn
- Compute Savings Plans apply to eligible usage within the boundary of each specific Region.
- SageMaker Savings Plans are not available.
- Savings Plans commitments are made in CNY/hr.

Documentation

- Savings Plans User Guide
- Savings Plans API Reference

Amazon SDK for SAP ABAP in Amazon Web Services China

Amazon SDK for SAP ABAP provides an interface to the services offered by Amazon in the ABAP language. Using the SDK, you can implement ABAP BADIs, reports, transactions, OData services, and other ABAP artifacts on Amazon services, such as Amazon Simple Storage Service (Amazon S3), Amazon DynamoDB, Amazon Translate, and more. You can also develop for ABAP-based systems, starting from SAP NetWeaver 7.4.

Region availability

Amazon SDK for SAP ABAP is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon SDK for SAP ABAP differs

There are no differences for this service.

Documentation

- Amazon SDK for SAP ABAP User Guide

- Amazon SDK for SAP ABAP API Reference

Amazon Secrets Manager in Amazon Web Services China

Amazon Secrets Manager helps you to securely encrypt, store, and retrieve credentials for your databases and other services. Instead of hardcoding credentials in your apps, you can make calls to Secrets Manager to retrieve your credentials whenever needed. Secrets Manager helps you protect access to your IT resources and data by enabling you to rotate and manage access to your secrets.

Region availability

Amazon Secrets Manager is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Secrets Manager differs

The following differences apply to Amazon Secrets Manager:

- Because Amazon DocumentDB is unavailable in the China (Beijing) Region, Amazon Secrets Manager does not support Amazon DocumentDB features in the China (Beijing) Region.
- Managed External Secrets are unavailable in China (Beijing) Region and China (Ningxia) Region.

Documentation

- Amazon Secrets Manager User Guide
- Amazon Secrets Manager API Reference

Amazon Security Hub in Amazon Web Services China

Amazon Security Hub is a unified cloud security solution that prioritizes your critical security issues and helps you respond at scale. Security Hub detects security issues by automatically correlating and enriching security signals from multiple sources, such as posture management (Amazon Security Hub CSPM), vulnerability management (Amazon Inspector), sensitive data (Amazon Macie), and threat detection (Amazon GuardDuty). This enables security teams to prioritize active risks in

their cloud environments through automated analyses and contextual insights. Through intuitive visualizations, Security Hub transforms complex security signals into actionable insights, which enables you to make informed decisions about your security quickly. Security Hub also includes automated response workflows to help you remediate risks, improve team productivity, and minimize operational disruptions. This topic describes the differences between using Security Hub in the China (Beijing) and China (Ningxia) Regions and using Security Hub in other Amazon Web Services Regions.

Region availability

Amazon Security Hub is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Security Hub differs

- **Integrations**
  - Security Hub integrations with third-party products and Amazon services are not available in the China (Beijing) and China (Ningxia) Regions. For more information about integrations in other Amazon Regions, see integrations in the *Amazon Security Hub User Guide*.
- **Automation rules**
  - Automation rules for integrations are not available in the China (Beijing) and China (Ningxia) Regions. For more information about automation rules in other Regions, see Automations in Security Hub in the *Amazon Security Hub User Guide*.
- **Cost estimator**
  - The Security Hub cost estimator is not available in the China (Beijing) and China (Ningxia) Regions. The cost estimator is a console feature that provides cost estimates for security capabilities across your Amazon Web Services environment, comparing individual service pricing (GuardDuty, Amazon Inspector, Security Hub CSPM) against Security Hub's simplified pricing plans. It uses Amazon Cost Explorer data to auto-populate usage information for management, delegated administrator, member, and standalone accounts.
- **Usage**
  - The Security Hub Usage page is not available in the China (Beijing) and China (Ningxia) Regions. The Usage page is a console feature that helps customers track and manage Security

Hub costs by displaying current costs, projected monthly costs, and usage broken down by security capability or individual Amazon Web Services account. Customers in the China (Beijing) and China (Ningxia) Regions can continue to use Amazon Cost Explorer to analyze Security Hub costs. For more information about the Usage page in other Amazon Web Services Regions, see Understanding the Security Hub Usage in the Amazon Security Hub User Guide.

- **Security Hub Extended plan**
  - The Security Hub Extended plan is not available in the China (Beijing) and China (Ningxia) Regions. The Extended plan enables customers to protect their enterprise estate across cloud, endpoint, network, identity, data, email, and browser through an integrated security operations experience centered in Security Hub. With the Extended plan, customers can subscribe to partner solutions with flexible pay-as-you-go pricing through Amazon Web Services Marketplace, with no upfront investments or long-term commitments required.
- **Unused access findings**
  - Unused access findings are not available in the China (Beijing) and China (Ningxia) Regions. Security Hub uses IAM Access Analyzer to identify unused IAM permissions, roles, access keys, and passwords in your account. These findings help you implement the security best practice of least-privilege access by highlighting IAM principals and permissions that are not actively being used. For more information about unused access findings see Understanding unused access findings in Security Hub in the Amazon Security Hub User Guide.
- **Network Scanning**
  - The Network Scanning feature is not available in the China (Beijing) and China (Ningxia) Regions. For more information about Network Scanning in Amazon Security Hub see Network Scanning in Security Hub in the Amazon Security Hub User Guide.

Documentation

- Amazon Security Hub User Guide
- Amazon Security Hub API Reference

Security Hub leverages findings from Security Hub CSPM (Cloud Security Posture Management) and Amazon Inspector. For information about the availability of these features in China regions, see the following resources.

Amazon Security Hub CSPM

For information about Security Hub CSPM feature differences in China regions, including standards and controls, see Amazon Security Hub CSPM in the *Amazon Web Services User Guide*.

Amazon Inspector

For information about Amazon Inspector feature differences in China regions, see Amazon Inspector in the *Amazon Web Services User Guide*.

Important: Network Reachability findings are not available in the China (Beijing) and China (Ningxia) Regions.

Amazon Security Hub CSPM in Amazon Web Services China

Amazon Security Hub CSPM provides you with a comprehensive view of the security state of your Amazon resources. Security Hub CSPM collects security data from across Amazon Web Services accounts and services, and helps you analyze your security trends to identify and prioritize the security issues across your Amazon Web Services environment.

Region availability

Security Hub CSPM is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Security Hub CSPM differs

- **Third-party partner integrations**
  - Not all integrations are supported. For a list of the integrations that are supported, see integrations that are supported in China (Beijing) Region and China (Ningxia) Region in the *Amazon Security Hub CSPM Guide*.
- **Standards**
  - All security standards are supported, except Service-Managed Standard: Amazon Control Tower.
- **Controls**
  - Not all security controls are supported. See the following lists in the *Amazon Security Hub CSPM Guide*.

  - Controls that are not available in China (Beijing) Region
  - Controls that are not available in China (Ningxia)
- **Cross-Region aggregation**
  - Cross-Region aggregation is supported with limitations. Cross-Region aggregation is supported only for findings, finding updates, and insights across China. Specifically, you can only aggregate findings, finding updates, and insights between Beijing and Ningxia.

Documentation

- Amazon Security Hub CSPM User Guide
- Amazon Security Hub CSPM API Reference
- Amazon Security Hub CSPMPartner Integration Guide

Amazon Serverless Application Model in Amazon Web Services China

The Amazon Serverless Application Model (Amazon SAM) is an open-source framework that enables you to build serverless applications on Amazon. It provides you with a template specification to define your serverless application, and a command line interface (CLI) tool.

Region availability

The Amazon Serverless Application Model is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Serverless Application Model differs

There are no differences for this service.

Documentation

- Amazon Serverless Application Model Developer Guide

- Template Specification

Amazon Serverless Application Repository in Amazon Web Services China

The Amazon Serverless Application Repository is a managed repository for serverless applications. It enables teams, organizations, and individual developers to find, deploy, publish, share, store, and easily assemble serverless architectures.

Region availability

Amazon Serverless Application Repository is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Serverless Application Repository differs

There are no differences for this service.

Documentation

- Developer Guide

Service Catalog in Amazon Web Services China

Service Catalog enables IT administrators to create, manage, and distribute portfolios of approved products to end users, who can then access the products they need in a personalized portal. Typical products include servers, databases, websites, or applications that are deployed using Amazon Web Services resources (for example, an Amazon EC2 instance or an Amazon RDS database). You can control which users have access to specific products to enforce compliance with organizational business standards, manage product lifecycles, and help users find and launch products with confidence.

Region availability

Amazon Service Catalog is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Service Catalog differs

- Amazon Web Services China supports a subset of Amazon Web Services and a single Availability Zone and Region; you may need to modify Amazon CloudFormation sample templates and template snippets in the Service Catalog Administrator Guide.
- Getting Started Library is not available.
- CopyProduct cross-region functionality is not available.
- Stack Set constraints cross-region functionality for regions outside of China is not available.
- All Service Catalog AppRegistry features and APIs are not available:
  - AssociateAttributeGroup
  - AssociateResource
  - CreateApplication
  - CreateAttributeGroup
  - DeleteApplication
  - DeleteAttributeGroup
  - DisassociateAttributeGroup
  - DisassociateResource
  - GetApplication
  - GetAttributeGroup
  - ListApplications
  - ListAssociatedAttributeGroups
  - ListAssociatedResources
  - ListAttributeGroups
  - ListTagsForResource
  - SyncResource
  - TagResource
  - UntagResource
  - UpdateApplication

- UpdateAttributeGroup

Documentation

- Service Catalog Administrator Guide
- Service Catalog User Guide
- Service Catalog Developer Guide

Service Quotas in Amazon Web Services China

By using Service Quotas you can centrally view and manage your Amazon service quotas. You can view the Amazon default quota values and your current applied quota values. You can also request quota increases. Through its integration with Amazon CloudWatch, you can also view your current usage for your quotas and configure alarms to get notified when you approach a quota threshold.

Region availability

Service Quotas is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Service Quotas differs

- Quota request templates are not available.

Documentation

- Service Quotas User Guide
- Service Quotas API Reference

Amazon Simple Notification Service in Amazon Web Services China

Amazon Simple Notification Service (Amazon SNS) is a web service that coordinates and manages the delivery or sending of messages to subscribing endpoints or clients.

Region availability

Amazon Simple Notification Service is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon SNS differs

The following differences apply to Amazon Simple Notification Service:

- The following Amazon SNS features are not yet available in the China (Beijing) and China (Ningxia) Regions:
  - Mobile push notifications
  - SMS messaging
  - Message Data Protection
- Custom data identifiers are not available.

Documentation

- Amazon Simple Notification Service Developer Guide
- Amazon Simple Notification Service API Reference

Amazon Simple Queue Service in Amazon Web Services China

Amazon Simple Queue Service (Amazon SQS) offers a reliable, highly-scalable hosted queue for storing messages as they travel between applications or microservices. It moves data between distributed application components and helps you decouple these components. Amazon SQS provides familiar middleware constructs such as dead-letter queues and poison-pill management.

It also provides a generic web services API and can be accessed by any programming language that the Amazon SDK supports. Amazon SQS supports both standard and FIFO queues.

Region availability

Amazon Simple Queue Service is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon SQS differs

The following differences apply to Amazon Simple Queue Service:

- Server-side encryption (SSE) for Amazon SQS is now available in the China (Beijing) and China (Ningxia) Regions.
- The SQS dead-letter queue redrive feature is not available for this region.

Documentation

- Amazon Simple Queue Service Developer Guide
- Amazon Simple Queue Service API Reference

Amazon Step Functions in Amazon Web Services China

Amazon Step Functions lets you coordinate the components of distributed applications and microservices using visual workflows. Step Functions provides a reliable way to coordinate components and step through the functions of your application. Step Functions provides a graphical console to visualize the components of your application as a series of steps. It automatically triggers and tracks each step, and retries when there are errors, so your application executes in order and as expected, every time. Step Functions logs the state of each step, so when things do go wrong, you can diagnose and debug problems quickly.

Region availability

Amazon Step Functions is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Step Functions differs

The following differences apply to Amazon Step Functions:

- Support to call HTTPS APIs is not available.

Documentation

- Amazon Step Functions Developer Guide
- Amazon Step Functions API Reference

Amazon Storage Gateway in Amazon Web Services China

Amazon Storage Gateway is a service connecting an on-premises software appliance with cloud-based storage to provide seamless and secure integration between an organization's on-premises IT environment and the Amazon Web Services China storage infrastructure. The service enables you to securely store data to the Amazon Web Services China cloud for scalable and cost-effective storage. Amazon Storage Gateway supports industry-standard storage protocols that work with your existing applications. It provides low-latency performance by maintaining frequently accessed data on-premises while securely storing all of your data encrypted in the Amazon Simple Storage Service (Amazon S3).

Region availability

Amazon Storage Gateway is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Storage Gateway differs

There are no differences for this service.

Documentation

- Amazon Storage Gateway User Guide
- Amazon Storage Gateway API Reference

Amazon Web Services Support in Amazon Web Services China

Amazon Web Services Support is a one-on-one, fast-response support channel that is staffed (24x7x365) with experienced technical support engineers and customer service professionals. The service helps customers at any level to use Amazon Web Services products and features successfully. For more information, see Amazon Web Services Support Plans.

Amazon Trusted Advisor helps you provision your resources by following best practices. Trusted Advisor inspects your Amazon environment and finds opportunities to save money, improve system performance and reliability, or help close security gaps. For more information, see Meet Amazon Trusted Advisor.

The Amazon Web Services Support API (available to Business and Enterprise-level Support customers) provides automated access to the functions of the Amazon Web Services Support Center.

How Amazon Web Services Support differs

The following differences apply to Amazon Web Services Support:

- API access to Amazon Trusted Advisor data via the Amazon Web Services Support API is not available.
- The Amazon Web Services Support App is not available.
- Changing the severity level of existing support cases isn't supported.

Documentation

- Amazon Web Services Support User Guide
- Amazon Web Services Support API Reference

Amazon Simple Workflow Service in Amazon Web Services China

The Amazon Simple Workflow Service (Amazon SWF) makes it easy to build applications that coordinate work across distributed components. In Amazon SWF, a task represents a logical unit of work that is performed by a component of your application. Coordinating tasks across the application involves managing intertask dependencies, scheduling, and concurrency in accordance with the logical flow of the application. Amazon SWF gives you full control over implementing tasks and coordinating them without worrying about underlying complexities such as tracking their progress and maintaining their state.

Region availability

Amazon Simple Workflow Service (SWF) is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Simple Workflow Service (SWF) differs

There are no differences for this service.

Documentation

- Amazon Simple Workflow Service Developer Guide
- Amazon Simple Workflow Service API Reference

Amazon Systems Manager in Amazon Web Services China

Amazon Systems Manager (formerly Amazon EC2 Systems Manager) is a unified interface that allows you to easily centralize operational data and automate tasks across your Amazon resources. Systems Manager shortens the time to detect and resolve operational problems in your infrastructure. Systems Manager gives you a complete view of your infrastructure performance and configuration, simplifies resource and application management, and makes it easy to operate and manage your infrastructure at scale.

Region availability

Amazon Systems Manager is available in the following Regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Systems Manager differs

The following differences apply to Amazon Systems Manager:

General

Using Systems Manager to configure, access, and manage Amazon IoT Greengrass Version 2 devices is not available.

Application Manager

Creating Amazon CloudFormation templates and stacks by using Application Manager is not available.

Automation

The Automation `aws:copyImage` action is not available.

Concurrently running automations in multiple Amazon Web Services Regions and accounts is not available.

The following Automation actions for invoking APIs from other Amazon services are not available:

- `aws:executeAwsApi`
- `aws:waitForAwsResourceProperty`
- `aws:assertAwsResourceProperty`

Change Manager

The Change Manager capability is not available.

Explorer

Creating resource data syncs is not available.

Fleet Manager

To connect to a Windows Server managed instance using Fleet Manager's Remote Desktop functionality, users must have been granted the correct IAM permissions for the China (Beijing) and China (Ningxia) Regions. See IAM permission policies for Fleet Manager Remote Desktop connections later in this page for policy examples.

Incident Manager

The Incident Manager capability is not available.

OpsCenter

The markdown support feature in the OpsItem description field in the console is not available.

Patch Manager

The **Patch now** feature in Patch Manager is not available.

Patch policies (a Quick Setup configuration) are not available.

Quick Setup

The Quick Setup capability is not available.

Session Manager

To download the Session Manager plugin for Systems Manager, for use on your local machine, use the following URls:

- Windows Server: https://s3.cn-north-1.amazonaws.com.cn/session-manager-downloads/plugin/latest/windows/SessionManagerPluginSetup.exe
- macOS: https://s3.cn-north-1.amazonaws.com.cn/session-manager-downloads/plugin/latest/mac/sessionmanager-bundle.zip
- Linux 32-bit: https://s3.cn-north-1.amazonaws.com.cn/session-manager-downloads/plugin/latest/linux_32bit/session-manager-plugin.rpm
- Linux 64-bit: https://s3.cn-north-1.amazonaws.com.cn/session-manager-downloads/plugin/latest/linux_64bit/session-manager-plugin.rpm
- Ubuntu Server 32-bit: https://s3.cn-north-1.amazonaws.com.cn/session-manager-downloads/plugin/latest/ubuntu_32bit/session-manager-plugin.deb
- Ubuntu Server 64-bit: https://s3.cn-north-1.amazonaws.com.cn/session-manager-downloads/plugin/latest/ubuntu_64bit/session-manager-plugin.deb

SSM Agent

Installation files for SSM Agent are available for both the China (Beijing) and China (Ningxia) Regions, for all supported operating systems. For information, see the following section, SSM Agent installation files in the China (Beijing) and China (Ningxia) Regions.

State Manager

The following features aren't supported.

- Schedule Offset
- `TagOnCreate` when creating a new State Manager association

SSM Agent installation files in the China (Beijing) and China (Ningxia) Regions

To install SSM Agent on Amazon Elastic Compute Cloud (Amazon EC2) instances, choose the appropriate installation file URL for your Amazon Web Services Region and operating system.

Amazon Linux

Use the following files when installing SSM Agent on Amazon Linux Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on Amazon Linux instances.

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

x86

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_386/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_386/amazon-ssm-agent.rpm
```

Amazon Linux 2

Use the following files when installing SSM Agent on Amazon Linux 2 Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on Amazon Linux 2 instances.

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

CentOS

Use the following files when installing SSM Agent on CentOS Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on CentOS instances

CentOS 8

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_arm64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_arm64/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

CentOS 7

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_arm64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_arm64/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

CentOS 6

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/3.0.1390.0/linux_386/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/3.0.1390.0/
linux_386/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/3.0.1390.0/
linux_amd64/amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/3.0.1390.0/
linux_amd64/amazon-ssm-agent.rpm
```

CentOS Stream 8

Use the following files when installing SSM Agent on CentOS Stream Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on CentOS Stream instances

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_arm64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_arm64/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

Debian Server

Use the following files when installing SSM Agent on Debian Server Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on Debian Server instances

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/debian_arm64/
amazon-ssm-agent.deb
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
debian_arm64/amazon-ssm-agent.deb
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/debian_amd64/
amazon-ssm-agent.deb
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
debian_amd64/amazon-ssm-agent.deb
```

Oracle Linux

Use the following files when installing SSM Agent on Oracle Linux Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on Oracle Linux instances

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

Red Hat Enterprise Linux (RHEL)

Use the following files when installing SSM Agent on RHEL Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on RHEL instances

RHEL 8

ARM64

- China (Beijing) Region

```
https://s3.amazonaws.com/ec2-downloads-windows/SSMAgent/latest/linux_arm64/amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.amazonaws.com/ec2-downloads-windows/SSMAgent/latest/linux_arm64/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/linux_amd64/amazon-ssm-agent.rpm
```

RHEL 7

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_arm64/amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_arm64/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

RHEL 6

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/3.0.1390.0/
linux_amd64/amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/3.0.1390.0/
linux_amd64/amazon-ssm-agent.rpm
```

x86

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/3.0.1390.0/linux_386/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/3.0.1390.0/
linux_386/amazon-ssm-agent.rpm
```

Rocky Linux

Use the following files when installing SSM Agent on Rocky Linux Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on Rocky Linux instances

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_arm64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_arm64/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

SUSE Enterprise Linux Server (SLES)

Use the following files when installing SSM Agent on SLES Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on SLES instances

ARM64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_arm64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_arm64/amazon-ssm-agent.rpm
```

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/linux_amd64/
amazon-ssm-agent.rpm
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
linux_amd64/amazon-ssm-agent.rpm
```

Ubuntu Server

Use the following files when installing SSM Agent on Ubuntu Server Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on Ubuntu Server instances.

Ubuntu Server 20.10 STR & 20.04, 18.04, and 16.04 LTS 64-bit (Snap)

Installation on these versions of Ubuntu Server uses the Snap format instead of installation commands with URLs for installation files. For instructions, see Install SSM Agent on Ubuntu Server 20.10 STR & 20.04, 18.04, and 16.04 LTS 64-bit (Snap).

Ubuntu Server 16.04 and 14.04 64-bit (deb)

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/debian_amd64/
amazon-ssm-agent.deb
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
debian_amd64/amazon-ssm-agent.deb
```

Ubuntu Server 16.04 and 14.04 32-bit

x86

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/debian_386/
amazon-ssm-agent.deb
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
debian_386/amazon-ssm-agent.deb
```

Windows Server

Use the following files when installing SSM Agent on Windows Server Amazon EC2 instances. For full instructions, see Manually installing SSM Agent on Windows Server instances

x86_64

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/windows_amd64/
AmazonSSMAgentSetup.exe
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
windows_amd64/AmazonSSMAgentSetup.exe
```

x86

- China (Beijing) Region

```
https://s3.cn-north-1.amazonaws.com.cn/amazon-ssm-cn-north-1/latest/windows_386/
AmazonSSMAgentSetup.exe
```

- China (Ningxia) Region

```
https://s3.cn-northwest-1.amazonaws.com.cn/amazon-ssm-cn-northwest-1/latest/
windows_386/AmazonSSMAgentSetup.exe
```

IAM permission policies for Fleet Manager Remote Desktop connections

The following are example IAM policies that you can attach to a user or role to allow different types of interaction with Remote Desktop in the China (Beijing) and China (Ningxia) Regions. Replace each example resource placeholder with your own information.

Standard policy for connecting to EC2 instances

```
{
"Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "EC2",
            "Effect": "Allow",
            "Action": [
                "ec2:DescribeInstances",
                "ec2:GetPasswordData"
            ],
            "Resource": "*"
        },
        {
            "Sid": "SSM",
            "Effect": "Allow",
            "Action": [
                "ssm:DescribeInstanceProperties",
                "ssm:GetCommandInvocation",
                "ssm:GetInventorySchema"
            ],
            "Resource": "*"
        },
        {
            "Sid": "TerminateSession",
            "Effect": "Allow",
            "Action": [
                "ssm:TerminateSession"
            ],
            "Resource": "*",
            "Condition": {
                "StringLike": {
                    "ssm:resourceTag/aws:ssmmessages:session-id": [
                        "${aws:userid}"
                    ]
                }
```

```
            }
        },
        {
            "Sid": "SSMStartSession",
            "Effect": "Allow",
            "Action": [
                "ssm:StartSession"
            ],
            "Resource": [
                "arn:aws-cn:ec2:*:111122223333:instance/*",
                "arn:aws-cn:ssm:*:111122223333:managed-instance/*",
                "arn:aws-cn:ssm:*::document/AWS-StartPortForwardingSession"
            ],
            "Condition": {
                "ForAnyValue:StringEquals": {
                    "aws:CalledVia": "ssm-guiconnect.amazonaws.com"
                }
            }
        },
        {
            "Sid": "GuiConnect",
            "Effect": "Allow",
            "Action": [
                "ssm-guiconnect:CancelConnection",
                "ssm-guiconnect:GetConnection",
                "ssm-guiconnect:StartConnection",
                "ssm-guiconnect:ListConnections"
            ],
            "Resource": "*"
        }
    ]
}
```

Policy for connecting to EC2 instances with specific tags

> **Note**
>
> In the following IAM policy, the `SSMStartSession` section requires an Amazon Resource Name (ARN) for the `ssm:StartSession` action. As shown, the ARN you specify does *not* require an Amazon Web Services account ID. If you specify an account ID, Fleet Manager returns an `AccessDeniedException`. The `AccessTaggedInstances` section, which is

located lower in the example policy, also requires ARNs for `ssm:StartSession`. For those ARNs, you do specify Amazon Web Services account IDs.

```
{
"Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "EC2",
            "Effect": "Allow",
            "Action": [
                "ec2:DescribeInstances",
                "ec2:GetPasswordData"
            ],
            "Resource": "*"
        },
        {
            "Sid": "SSM",
            "Effect": "Allow",
            "Action": [
                "ssm:DescribeInstanceProperties",
                "ssm:GetCommandInvocation",
                "ssm:GetInventorySchema"
            ],
            "Resource": "*"
        },
        {
            "Sid": "SSMStartSession",
            "Effect": "Allow",
            "Action": [
                "ssm:StartSession"
            ],
            "Resource": [
                "arn:aws-cn:ssm:*::document/AWS-StartPortForwardingSession"
            ],
            "Condition": {
                "ForAnyValue:StringEquals": {
                    "aws:CalledVia": "ssm-guiconnect.amazonaws.com"
                }
            }
        },
        {
            "Sid": "AccessTaggedInstances",
```

```
            "Effect": "Allow",
            "Action": [
                "ssm:StartSession"
            ],
            "Resource": [
                "arn:aws-cn:ec2:*:111122223333:instance/*",
                "arn:aws-cn:ssm:*:111122223333:managed-instance/*"
            ],
            "Condition": {
                "StringLike": {
                    "ssm:resourceTag/tag key": [
                        "tag value"
                    ]
                }
            }
        },
        {
            "Sid": "GuiConnect",
            "Effect": "Allow",
            "Action": [
                "ssm-guiconnect:CancelConnection",
                "ssm-guiconnect:GetConnection",
                "ssm-guiconnect:StartConnection",
                "ssm-guiconnect:ListConnections"
            ],
            "Resource": "*"
        }
    ]
}
```

Policy for Amazon IAM Identity Center users to connect to EC2 instances

```
{
"Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "SSO",
            "Effect": "Allow",
            "Action": [
                "sso:ListDirectoryAssociations*",
                "identitystore:DescribeUser"
            ],
            "Resource": "*"
```

```
        },
        {
            "Sid": "EC2",
            "Effect": "Allow",
            "Action": [
                "ec2:DescribeInstances",
                "ec2:GetPasswordData"
            ],
            "Resource": "*"
        },
        {
            "Sid": "SSM",
            "Effect": "Allow",
            "Action": [
                "ssm:DescribeInstanceInformation",
                "ssm:DescribeInstanceProperties",
                "ssm:GetCommandInvocation",
                "ssm:GetInventorySchema"
            ],
            "Resource": "*"
        },
        {
            "Sid": "TerminateSession",
            "Effect": "Allow",
            "Action": [
                "ssm:TerminateSession"
            ],
            "Resource": "*",
            "Condition": {
                "StringLike": {
                    "ssm:resourceTag/aws:ssmmessages:session-id": [
                        "${aws:userName}"
                    ]
                }
            }
        },
        {
            "Sid": "SSMStartSession",
            "Effect": "Allow",
            "Action": [
                "ssm:StartSession"
            ],
            "Resource": [
                "arn:aws-cn:ec2:*:*:instance/*",
```

```
                "arn:aws-cn:ssm:*:*:managed-instance/*",
                "arn:aws-cn:ssm:*:*:document/AWS-StartPortForwardingSession"
            ],
            "Condition": {
                "ForAnyValue:StringEquals": {
                    "aws:CalledVia": "ssm-guiconnect.amazonaws.com"
                }
            }
        },
        {
            "Sid": "SSMSendCommand",
            "Effect": "Allow",
            "Action": [
                "ssm:SendCommand"
            ],
            "Resource": [
                "arn:aws-cn:ec2:*:*:instance/*",
                "arn:aws-cn:ssm:*:*:managed-instance/*",
                "arn:aws-cn:ssm:*:*:document/AWSSSO-CreateSSOUser"
            ]
        },
        {
            "Sid": "GuiConnect",
            "Effect": "Allow",
            "Action": [
                "ssm-guiconnect:CancelConnection",
                "ssm-guiconnect:GetConnection",
                "ssm-guiconnect:StartConnection",
                "ssm-guiconnect:ListConnections"
            ],
            "Resource": "*"
        }
    ]
}
```

Documentation

- Amazon Systems Manager User Guide
- Amazon Systems Manager API Reference

Amazon Transcribe in Amazon Web Services China

Amazon Transcribe uses advanced machine learning technologies to recognize speech in audio files and transcribe them into text. You can use Amazon Transcribe to convert audio to text and to create applications that incorporate the content of audio files. For example, you can transcribe the audio track from a video recording to create closed captioning for the video.

Region availability

Amazon Transcribe is available in the following Amazon Web Services China Regions:

- China (Beijing)
- China (Ningxia)

How Amazon Transcribe differs

- Filing for Internet Content Provider (ICP) recordal:

  If you want to use an Amazon S3 bucket for your input data, you must obtain an ICP license. For information about filing for ICP recordal, see Billing and Payment
- Automatic content redaction is not available.
- Automatic language identification is not available.
- Custom language models are not available.
- Amazon Transcribe Call Analytics is not available.

Documentation

- Amazon Transcribe Developer Guide

Amazon Transfer Family in Amazon Web Services China

Amazon Transfer Family is a secure transfer service that enables you to transfer files into and out of Amazon storage services. Amazon Transfer Family supports transferring data from or to the following Amazon storage services:

- Amazon Simple Storage Service

- Amazon Elastic File System (Amazon EFS) Network File System (NFS) file system

Region availability

Amazon Transfer Family is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Transfer Family differs

The following differences apply to Transfer Family:

- VPC_ENDPOINT endpoint types are not available.

Documentation

- Amazon Transfer Family User Guide

Amazon Transit Gateway in Amazon Web Services China

A transit gateway is a network transit hub that interconnects your virtual private clouds (VPC) and on-premises networks.

Region availability

Amazon Transit Gateway is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon Transit Gateway differs

The following differences apply to Amazon Transit Gateway:

- Transit Gateway Network Manager is not available.

- You must use VPC attachments and VPC peering attachments on a transit gateway.
- Cloud WAN and transit gateway to Cloud WAN peering attachments are not available.
- VPN attachments, VPN Concentrator attachments, and Client VPN attachments are not available.
- Inter-Region peering is only supported between the China (Beijing) and China (Ningxia) Regions. You can't create an Inter-Region peering between a China Region and any other Amazon Region.

Documentation

- Amazon Transit Gateway documentation

Amazon Trusted Advisor in Amazon Web Services China

Amazon Trusted Advisor helps you provision your resources by following best practices. Trusted Advisor inspects your Amazon Web Services environment and finds opportunities to save money, improve system performance and reliability, or help close security gaps.

Region availability

Amazon Trusted Advisor is available in the following regions in China:

- China (Beijing) Region

How Amazon Trusted Advisor differs

The following differences apply to Amazon Trusted Advisor:

- The organizational view feature is not available.
- Not all checks are supported in this Region. For a list of available checks, see the Trusted Advisor check reference.
- Trusted Advisor Priority is not available.
- Amazon CloudWatch alarms for Trusted Advisor metrics are not available.
- Monitoring Trusted Advisor checks with Amazon CloudWatch Events or Amazon EventBridge is not available.

Documentation

For more information about Amazon Trusted Advisor and the API operations available, see the Amazon Web Services Support documentation:

- Amazon Web Services Support User Guide
- Amazon Web Services Support API Reference

Amazon Verified Permissions in Amazon Web Services China

Amazon Verified Permissions provides customer applications with the ability to control which users can perform which actions within the application. Verified Permissions uses policies written in the to describe access using the standard PARX model: principal, actions, resource, and context.

Region availability

Amazon Verified Permissions is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Verified Permissions differs

The following differences apply to Amazon Verified Permissions:

- AVP native integration with Amazon Cognito as identity source is not available.

Documentation

- Amazon Verified Permissions User Guide
- Amazon Verified Permissions API Reference Guide

Amazon Virtual Private Cloud in Amazon Web Services China

Amazon Virtual Private Cloud (Amazon VPC) lets you provision a logically isolated section of the Amazon Web Services China cloud where you can launch Amazon Web Services China

resources in a virtual network that you define. You have complete control over your virtual networking environment, including selection of your own IP address range, creation of subnets, and configuration of route tables and network gateways.

Region availability

Amazon Virtual Private Cloud is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon VPC differs

The following differences apply to Amazon Virtual Private Cloud:

- Amazon Site-to-Site VPN service is not available.
- You can't assign a private DNS name to a VPC endpoint service.
- Bring your own IP (BYOIP) and Bring your own ASN (BYOASN) are not available.
- Reachability Analyzer is not available.
- Network Access Analyzer is not available.
- You can't use Amazon VPC IP Address Manager (IPAM) to get a contiguous block of public IPv4 addresses from Amazon and use it to allocate Elastic IP addresses to Amazon Web Services resources.
- Amazon VPC Route Server is not available.

Documentation

- Amazon Virtual Private Cloud documentation

Amazon WAF in Amazon Web Services China

Amazon WAF is a web application firewall that lets you monitor web requests that are forwarded to Amazon CloudFront distributions or an Application Load Balancer. You can also use Amazon WAF to block or allow requests based on conditions that you specify, such as the IP addresses that requests originate from or values in the requests.

Region availability

Amazon WAF is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon WAF differs

The following differences apply to Amazon WAF:

- The following related services, which appear in the Amazon WAF documentation, are not available in the China (Beijing) and China (Ningxia) Regions: Amazon Firewall Manager, and Amazon Shield.
- Amazon Web Services Marketplace integration is not available in the China (Beijing) and China (Ningxia) Regions.
- Amazon WAF is supported at a regional level only in the China (Beijing) and China (Ningxia) Regions.
- The Amazon WAF Bot Control managed rule group `AWSManagedRulesBotControlRuleSet` is available at the common protection level only. The targeted protection level rules are not available in the China (Beijing) and China (Ningxia) Regions.

Documentation

- Amazon WAF Developer Guide
- Amazon WAF API Reference

Amazon WorkSpaces in Amazon Web Services China

Amazon WorkSpaces offers an easy way to provide a cloud-based virtual desktop to your end users. You can use Amazon WorkSpaces to provision either Windows or Linux desktops in just a few minutes and quickly scale to provide thousands of desktops to your users. Select from a choice of bundles that offer a range of different amounts of CPU, memory, storage, and a choice of applications. Users can connect from a Windows or Linux PC, Mac desktop computer, iPad, Kindle, or Android tablet.

Region availability

Amazon WorkSpaces is available in the following regions in China:

- China (Ningxia) Region

How WorkSpaces differs

The following differences apply to Amazon WorkSpaces:

- The WorkSpaces Quick Setup feature is not available.
- Windows 7/Windows 2008 WorkSpaces are not available.
- Only Windows Server 2019 and Windows Server 2022 based WorkSpaces are available. Windows Server 2025 is not yet supported.
- Amazon WorkSpaces Application Manager (WAM) is not available.
- Amazon WorkSpaces Web Access is not currently available.
- Integration with Amazon WorkDocs is not currently supported.
- Copying images across Regions is not currently supported.
- The cross-Region redirection feature is not available.
- WorkSpace branding customization is not currently supported.
- Amazon WorkSpaces Advisor is not available.

Documentation

- Amazon WorkSpaces Administration Guide
- Amazon WorkSpaces User Guide
- Amazon WorkSpaces API Reference

Amazon X-Ray in Amazon Web Services China

Amazon X-Ray makes it easy for developers to analyze the behavior of their distributed applications by providing request tracing, exception collection, and profiling capabilities.

Region availability

Amazon X-Ray is available in the following regions in China:

- China (Beijing) Region
- China (Ningxia) Region

How Amazon X-Ray differs

There are no differences for this service.

Documentation

- Amazon X-Ray Developer Guide
- Amazon X-Ray API Reference

Services Unsupported in Amazon Web Services China

For a list of services that are supported and not supported in the China (Beijing) Region and the China (Ningxia) Region, see the Region Table.

Endpoints and ARNs for Amazon Web Services China

To access Amazon services and resources, you use endpoints and Amazon Resource Names (ARNs).

Endpoints

To connect programmatically to an Amazon Web Services China, you use an endpoint. An endpoint is the URL of the entry point for an Amazon service. For example, `dynamodb.cn-north-1.amazonaws.com.cn` is the endpoint for the Amazon DynamoDB service in the China (Beijing) Region, and `dynamodb.cn-northwest-1.amazonaws.com.cn` is the endpoint for Amazon DynamoDB in the China (Ningxia) Region. The Amazon SDKs and the Amazon Command Line Interface (CLI) automatically use the default endpoint for each service in an Amazon Region. But you can specify another endpoint for your API requests.

The endpoints reference for services has moved to Endpoints for Amazon Web Services China in the Amazon Web Services General Reference.

Amazon Resource Names (ARNs)

Amazon Resource Names (ARNs) uniquely identify Amazon resources. You use an ARN to specify a resource across all of Amazon Web Services, such as in Amazon Identity and Access Management (IAM) policies, Amazon Relational Database Service (Amazon RDS) tags, and API calls.

For information about ARNs in the China (Beijing) and China (Ningxia) Regions, see ARNs for Amazon Web Services in China.

For general information about ARNs, see Amazon Resource Names (ARNs) in the *Amazon Web Services General Reference*.

ARNs for Amazon Web Services China

In the China (Beijing) and China (Ningxia) Regions, the Amazon Resource Name (ARN) syntax includes a cn.

```
arn:aws-cn
```

If an ARN requires you to specify a region:

- For the China (Beijing) Region, use `cn-north-1`.

  Example for Amazon Relational Database Service:

  ```
  arn:aws-cn:rds:cn-north-1:123456789012:db:mysql-db
  ```

- For the China (Ningxia) Region, use `cn-northwest-1`.

  Example for Amazon Elastic Compute Cloud:

  ```
  arn:aws-cn:ec2:cn-northwest-1:123456789012:volume/vol-1a2b3c4d
  ```

For additional information about ARNs, see Amazon Resource Names (ARNs) in the Amazon Web Services General Reference.

Amazon Developer Tools

Amazon Web Services China can be accessed programmatically using the Amazon SDKs, the Amazon Command Line Interface (CLI), and other Amazon developer tools. The developer tools are designed to help you build and manage your Amazon Web Services China applications.

> **Important**
>
> Currently, the Amazon developer tools are available only in English.

Amazon SDKs

The Amazon SDKs make it easy to work with Amazon APIs in your preferred programming language or platform. The SDKs include sample code, libraries, documentation, templates, sample applications, and other developer tools related to your technology of choice.

To download the Amazon SDKs, go to Tools for Amazon Web Services.

Amazon Command Line Tools

Amazon Web Services offers the Amazon Command Line Interface (CLI), a single tool for controlling and managing multiple Amazon services. For those who script in the Windows PowerShell environment, Amazon Web Services also offers the Amazon Tools for Windows PowerShell.

To download the Amazon CLI or the PowerShell tools, go to Tools for Amazon Web Services.

Before the introduction of the Amazon CLI, service-specific CLI tools were available. Some of the prior, service-specific CLIs are available in the China Regions. If a service-specific CLI is available, it can be downloaded from the appropriate service page. The service pages can be found at Documentation by Service.

IDE Toolkits

Amazon Toolkits are extensions that integrate Amazon Cloud services, resources, and features with a variety of developer environments. These environments include Visual Studio, VS

Code, and Azure DevOps. There are also Toolkit extensions available for the JetBrains suite of integrated development environments, including Rider, PyCharm, and DataGrip. You can use these integrations to manage your Amazon Cloud resources and features for Amazon S3, Amazon ECS, Amazon CloudFormation, Amazon Lambda, and Amazon App Runner services—without having to leave your development environment. You can install most toolkit extensions from an IDE's built-in extension browser, reducing the time and attention required for setup. With an intuitive GUI layout, unique features designed to address each IDE's capabilities, and regular releases of new features—Toolkits minimize interruptions to your workflow and maximize the efficiency of your favorite IDEs.

Amazon Web Services China Support and Other Resources

Amazon Web Services China offers a variety of support options, including one-on-one troubleshooting, Amazon Trusted Advisor, a discussion forum, and the Service Health Dashboard.

Support Service	Description
Amazon Web Services Support	Amazon Web Services Support is a one-on-one, fast-response support channel that is staffed around the clock by experienced technical support engineers. The service helps customers of all sizes and technical abilities to successfully use the products and features provided by Amazon Web Services China.
Amazon Trusted Advisor	Amazon Trusted Advisor helps you provision your resources by following best practices . Trusted Advisor inspects your Amazon environment and finds opportunities to save money, improve system performance and reliability, or help close security gaps.
Service Health Dashboard	Amazon Web Services China features a Service Health Dashboard (SHD) that provides access to current status and historical data about every Amazon Web Services China product. If there's a problem with a service, you'll be able to expand the appropriate line in the Details section and learn more. You can also subscribe to the RSS feed for any service. You can access the SHD at http://status.amazonaws.cn/. The SHD is available in both Chinese and English.

Amazon Web Services Support API

The Amazon Web Services Support API provides access to some of the services that underlie the features of the Amazon Web Services Support Center.

In the China (Beijing) Region, you can use the following endpoint to access the Amazon Web Services Support API:

- https://support.cn-north-1.amazonaws.com.cn

In the China (Ningxia) Region, you can use the following endpoint to access the Amazon Web Services Support API:

- https://support.cn-northwest-1.amazonaws.com.cn

For more information, see Amazon Web Services Support.

Document history

Change	Description	Date
Amazon GuardDuty	Managing GuardDuty accounts with organization policies is not available in the China Regions.	September 30, 2026
Amazon GuardDuty	Custom Detection Rules and its associated finding types and APIs are now available in the China (Beijing) and China (Ningxia) Region.	September 24, 2026
Amazon GuardDuty	GuardDuty AI Protectio n is not available in the China Regions. As a result, AI Protection findings do not contribute as signals to Extended Threat Detection attack sequences, including the AttackSequence:IAM/ CompromisedCredentials finding type.	September 17, 2026
Amazon GuardDuty	Custom Detection Rules and its associated finding types and APIs are not available in the China Regions.	September 1, 2026
Amazon Organizations	You can now use backup policies, a declarative policy type, in the China (Beijing) and China (Ningxia) Regions.	August 27, 2026

Amazon Elastic File System	Cross-account replication is now available.	July 27, 2026
Amazon GuardDuty	Malware Protection for S3, on-demand malware scan for EC2, and malware scan of Amazon EBS volumes encrypted with Amazon managed keys are now available in the China (Beijing) and China (Ningxia) Region.	July 14, 2026
Amazon GuardDuty	GuardDuty AI Protection is now available in the China (Beijing) and China (Ningxia) Region. In the China Regions, AI Protection supports the Impact:IAMUser/AnomalousModelInvocation and Impact:IAMUser/CostHarvesting finding types, which are based on Amazon SageMaker AI model invocations. The Impact:IAMUser/PromptInjection.Direct finding type is not available in the China Regions because Amazon Bedrock and Amazon Bedrock Guardrails are not available in these Regions.	July 13, 2026
Amazon Organizations	Multi-party approval is not available in the China (Beijing) and China (Ningxia) Region.	June 8, 2026

Amazon Security Hub	Unused access findings are not available in Amazon Security Hub in the china Regions.	May 11, 2026
Amazon Security Hub	Amazon Security Hub Usage page is not available in the China Regions.	May 4, 2026
Amazon GuardDuty	GuardDuty has deprecated the `AmazonGuardDutyFullAccess` policy and replaced it with a scoped-down policy named `AmazonGuardDutyFullAccess_v2`. For more information, see Amazon managed policy: AmazonGuardDutyFullAccess_v2.	March 13, 2026
Amazon IoT Greengrass	VPC endpoints (Amazon PrivateLink) for Amazon IoT Greengrass V2 are now available in the China (Beijing) Region.	December 8, 2025
Amazon Verified Permissions	Amazon Verified Permissions is now available in the China Regions.	September 30, 2025
Amazon Directory Service	Amazon Managed Microsoft AD (Hybrid Edition) is not available in China Regions	August 5, 2025

Diff doc update	Updated diff doc to note unavailability of mTLS authentication in China (Beijing) and China (Ningxia) Region.	July 30, 2025
Amazon EFS	Amazon EFS APIs and mount targets are supported on Internet Protocol version 6 (IPv6).	June 25, 2025
Amazon CloudTrail	CloudTrail enriched events are currently not supported.	May 29, 2025
Amazon Web Services China Local Zones	Amazon Web Services China Local Zones is now available in the China (Beijing) and China (Ningxia) Region.	April 22, 2025
Amazon CloudTrail	You can now use additional advanced event selectors and predefined templates to log data events to your trail. For more information, see Data events.	April 17, 2025
Amazon CloudTrail	Some advanced selector fields for data events in trails are not supported.	April 10, 2025
Amazon RDS	Database Insights is now available in the China (Beijing) and China (Ningxia) Region.	March 13, 2025

Amazon GuardDuty	Extended Threat Detection is now available in the China (Beijing) and China (Ningxia) Region. With no activatio n needed, it detects multi-stage attacks that span data sources, multiple types of Amazon resources, and time, within an Amazon Web Services account. When potential threats are detected, it generates an attack sequence finding.	March 13, 2025
Amazon Aurora	Database Insights is now available in the China (Beijing) and China (Ningxia) Region.	March 13, 2025
Amazon Lambda	Lambda SnapStart is now available in the China Regions.	September 26, 2024
Amazon Elastic Container Service	Amazon EBS volumes are now available for attaching to Amazon ECS tasks in the China (Beijing) Region and China (Ningxia) Region.	September 17, 2024
Amazon Private Certificate Authority	Amazon Private Certificate Authority is now available in China (Beijing) Region.	February 28, 2024
Amazon Network Firewall	Amazon Network Firewall is now available in China (Beijing) Region.	February 28, 2024

Amazon Inspector	Amazon Inspector is now available in the China (Beijing) Region and China (Ningxia) Region.	February 7, 2024
Quick	Amazon QuickSight is now available in China (Beijing) Region.	January 25, 2024
Amazon IoT TwinMaker	Amazon IoT TwinMaker is now available in the China (Beijing) Region.	January 11, 2024
IAM Identity Center	IAM Identity Center is now available in the China (Beijing) Region and China (Ningxia) Region.	September 19, 2023
Amazon SDK for SAP ABAP	Amazon SDK for SAP ABAP is now available in the China Regions.	August 30, 2023
Amazon Security Hub	Consolidated controls view and consolidated control findings are now available in the China (Beijing) and China (Ningxia) Region.	August 28, 2023
Amazon Application Recovery Controller (ARC)	Amazon Application Recovery Controller (ARC) is now available in the China (Beijing) Region and China (Ningxia) Region.	August 9, 2023

Amazon Virtual Private Cloud	The Public IP insights feature of Amazon VPC IP Address Manager (IPAM) is available. Public IP insights shows you all public IPv4 addresses used by services in this Region in your account	July 28, 2023
Amazon GuardDuty	Lambda Protection is now available in the China (Beijing) and China (Ningxia) Region.	July 27, 2023
Savings Plans	Savings Plans is now available in the China Regions.	July 6, 2023
Amazon Lambda	Amazon SQS event sources (ScalingConfig) is now available in the China Regions.	March 31, 2023
Service Quotas	Service Quotas is now available in the China (Beijing) and China (Ningxia) Region.	February 23, 2023
Amazon Launch Wizard	Amazon Launch Wizard is now available in the China (Beijing) Region and China (Ningxia) Region.	January 19, 2023
Amazon DataSync	DataSync is an online data transfer service that simplifies, automates, and accelerates moving data between storage systems and services.	December 14, 2022

Amazon Elastic Container Service	Amazon ECS Service Connect is now available in the China (Beijing) Region and China (Ningxia) Region.	December 14, 2022
Amazon Security Hub	Updated feature differences.	December 8, 2022
Amazon Security Hub	Cross-Region aggregation is now partially available in the China (Beijing) and China (Ningxia) Region.	September 26, 2022
Amazon Managed Workflows for Apache Airflow	Amazon Managed Workflows for Apache Airflow is now available in the China (Beijing) Region and China (Ningxia) Region.	May 16, 2022
Amazon CodePipeline	Amazon CodePipeline is now available in the China (Beijing) Region and China (Ningxia) Region.	February 15, 2022
Amazon MemoryDB	Amazon MemoryDB is now available in the China (Beijing) Region and China (Ningxia) Region.	January 27, 2022
Amazon App Mesh	Amazon App Mesh is now available in the China (Beijing) Region and China (Ningxia) Region.	September 29, 2021
Amazon Trusted Advisor	Updated feature differences.	September 10, 2021
Amazon OpenSearch Service	Amazon Elasticsearch Service renamed to Amazon OpenSearch Service.	September 8, 2021

Amazon Firewall Manager	Amazon Firewall Manager is now available in the China (Beijing) Region and China (Ningxia) Region.	August 19, 2021
Amazon Glue DataBrew	Amazon Glue DataBrew is now available in the China (Beijing) and China (Ningxia) Region.	May 19, 2021
Amazon Compute Optimizer	Amazon Compute Optimizer is now available in the China (Beijing) and China (Ningxia) Region.	May 5, 2021
Amazon Cloud Control API (Cloud Control API)	Amazon Cloud Control API (Cloud Control API) is now available in the China (Beijing) Region and China (Ningxia) Region.	March 31, 2021
Amazon IoT Greengrass	Amazon IoT Greengrass V2 is now available in the China (Beijing) Region.	March 17, 2021
Amazon MQ	Amazon MQ is now available in the China (Beijing) and China (Ningxia) Region.	March 15, 2021
Amazon GuardDuty	Amazon GuardDuty is now available in the China (Beijing) and China (Ningxia) Region.	March 12, 2021
Amazon IoT SiteWise	Amazon IoT SiteWise is now available in the China (Beijing) Region.	February 3, 2021

Amazon DocumentDB	Amazon DocumentDB is now available in the China (Ningxia) Region.	November 23, 2020
Amazon Resource Access Manager	Amazon Resource Access Manager is now available in the China (Beijing) and China (Ningxia) Region.	November 18, 2020
Amazon IoT Analytics	Amazon IoT Analytics is now available in the China (Beijing) Region.	November 4, 2020
Amazon CloudFormation	Amazon CloudFormation StackSets are now supported in the China (Beijing) and China (Ningxia) Region.	October 30, 2020
Amazon Security Hub	Amazon Security Hub is now available in the China (Beijing) and China (Ningxia) Region.	October 21, 2020
Amazon FSx	Amazon FSx is now available in the China (Beijing) and China (Ningxia) Region.	October 21, 2020
Amazon Cloud Map	Amazon Cloud Map is now available in the China (Beijing) and China (Ningxia) Region.	October 15, 2020
Amazon Lake Formation	Amazon Lake Formation is now available in the China (Beijing) Region.	October 14, 2020
Amazon IoT Events	Amazon IoT Events is now available in the China (Beijing) Region.	September 30, 2020

Amazon Resource Groups	Amazon Resource Groups is now available in the REGION ENTITY.	September 30, 2020
Amazon Account Management	Amazon Account Management is now available in the China (Beijing) and China (Ningxia) Region.	September 30, 2020
Amazon DCV	Amazon DCV is now available in the China (Beijing) and China (Ningxia) Region.	September 30, 2020
Amazon Keyspaces (for Apache Cassandra)	Amazon Keyspaces (for Apache Cassandra) is now available in the China (Beijing) and China (Ningxia) Region.	August 19, 2020
Amazon KMS	Importing Key Material is now supported in the China (Beijing) and China (Ningxia) Region.	August 17, 2020
SAP HANA on Amazon	SAP HANA on Amazon is now available in the China (Beijing) and China (Ningxia) Region.	August 12, 2020
Amazon Billing and Cost Management	Amazon Billing and Cost Management is now available in the China (Ningxia) Region.	July 15, 2020
EC2 Image Builder	EC2 Image Builder is now available in the China (Beijing) and China (Ningxia) Region.	July 8, 2020
Amazon Organizations	Amazon Organizations is now available in the China (Ningxia) Region.	June 23, 2020

Amazon Managed Service for Apache Flink	Amazon Managed Service for Apache Flink is now available in the China (Beijing) and China (Ningxia) Region.	June 10, 2020
Amazon Auto Scaling	Amazon Auto Scaling is now available in the China (Beijing) and China (Ningxia) Region.	June 3, 2020
Amazon Serverless Application Model	Amazon Serverless Application Model is now available in the China (Beijing) and China (Ningxia) Region.	May 27, 2020
Amazon Route 53	Amazon Route 53 is now available in the China (Beijing) and China (Ningxia) Region.	May 13, 2020
Amazon Deep Learning Containers	Amazon Deep Learning Containers is now available in the China (Beijing) and China (Ningxia) Region.	April 29, 2020
Amazon SageMaker AI	Amazon SageMaker AI is now available in the China (Beijing) and China (Ningxia) Region.	April 29, 2020
Amazon Redshift	Amazon Redshift Spectrum is now available in the China (Beijing) and China (Ningxia) Region.	April 29, 2020
Amazon CodeCommit	Amazon CodeCommit is now available in the China (Beijing) and China (Ningxia) Region.	April 23, 2020

Amazon Managed Streaming for Apache Kafka	Amazon MSK is now available in the China (Beijing) and China (Ningxia) Region.	April 15, 2020
Amazon Glue	Amazon Glue is now available in the China (Beijing) and China (Ningxia) Region.	April 8, 2020
Amazon WorkSpaces	Updated feature differences.	April 2, 2020
Amazon Backup	Amazon Backup is now available in the China (Beijing) and China (Ningxia) Region.	March 5, 2020
Amazon Certificate Manager	Amazon Certificate Manager is now available in the China (Beijing) and China (Ningxia) Region.	March 4, 2020
Amazon Elastic Kubernetes Service	Amazon Elastic Kubernete s Service is now available in the China (Beijing) and China (Ningxia) Region.	February 26, 2020
Amazon Storage Gateway	Amazon Storage Gateway is now available in the China (Beijing) and China (Ningxia) Region.	February 5, 2020
Amazon AppSync	Amazon AppSync is now available in the China (Beijing) Region.	January 22, 2020
Amazon Elastic File System	Amazon Elastic File System is now available in the China (Beijing) and China (Ningxia) Region.	January 22, 2020

Amazon Serverless Application Repository	Amazon Serverless Application Repository is now available in the China (Beijing) and China (Ningxia) Region.	January 15, 2020
Amazon Neptune	Amazon Neptune is now available in the China (Ningxia) Region.	January 15, 2020
Amazon Athena	Amazon Athena is now available in the China (Ningxia) Region.	January 15, 2020
Amazon Health	Amazon Health is now available in the China (Beijing) and China (Ningxia) Region.	December 23, 2019
Amazon X-Ray	Amazon X-Ray is now available in the China (Beijing) and China (Ningxia) Region.	December 20, 2019
FreeRTOS	FreeRTOS is now available in the China (Beijing) and China (Ningxia) Region.	December 20, 2019
Amazon Glue	Amazon Glue is now available in the China (Ningxia) Region.	December 18, 2019
Amazon Secrets Manager	Amazon Secrets Manager is now available in the China (Beijing) and China (Ningxia) Region.	December 13, 2019
Amazon WorkSpaces	Amazon WorkSpaces is now available in the China (Ningxia) Region.	November 13, 2019

Amazon EventBridge	Amazon EventBridge is now available in the China (Beijing) and China (Ningxia) Region.	November 13, 2019
Amazon Batch	Amazon Batch is now available in the China (Beijing) and China (Ningxia) Region.	October 9, 2019
Amazon Transcribe	Amazon Transcribe is now available in the China (Beijing) and China (Ningxia) Region.	October 9, 2019
Amazon ParallelCluster	Amazon ParallelCluster is now available in the China (Beijing) and China (Ningxia) Region.	September 11, 2019
Amazon License Manager	Amazon License Manager is now available in the China (Beijing) and China (Ningxia) Region.	June 26, 2019
Amazon IoT Greengrass	Amazon IoT Greengrass is now available in the China (Beijing) Region.	June 25, 2019
Application Auto Scaling	Application Auto Scaling is now available in the China (Beijing) and China (Ningxia) Region.	June 14, 2019
Amazon Web Services Marketplace China	Amazon Web Services Marketplace China is now available in the China (Beijing) and China (Ningxia) Region.	June 10, 2019

Amazon KMS	Amazon Key Management Service is now available in the China (Beijing) and China (Ningxia) Region.	June 5, 2019
MediaConvert	Amazon Elemental MediaConvert is now available in the China (Beijing) and China (Ningxia) Region.	April 8, 2019
Amazon CloudFront	Amazon CloudFront is now available in the China (Beijing) and China (Ningxia) Region.	April 8, 2019
Amazon Step Functions	Amazon Step Functions is now available in the China (Beijing) and China (Ningxia) Region.	January 17, 2019
Firehose	Amazon Data Firehose is now available in the China (Beijing) and China (Ningxia) Region.	January 16, 2019
Amazon Polly	Amazon Polly is now available in the China (Beijing) Region.	November 14, 2018
Amazon CodeBuild	Amazon CodeBuild is now available in the China (Beijing) and China (Ningxia) Region.	October 5, 2018
Amazon GameLift Servers	Amazon GameLift Servers is now available in the China (Beijing) Region.	September 27, 2018
Amazon Database Migration Service	Amazon Database Migration Service is now available in the China (Beijing) and China (Ningxia) Region.	August 9, 2018

Amazon Web Services Management Console	Amazon Web Services Management Console is now available in the China (Beijing) and China (Ningxia) Region.	July 19, 2018
Amazon Snowball Edge	Amazon Snowball Edge is now available in the China (Beijing) Region.	June 27, 2018
Amazon Lambda	Amazon Lambda is now available in the China (Beijing) and China (Ningxia) Region.	June 27, 2018
Amazon API Gateway	Amazon API Gateway is now available in the China (Beijing) and China (Ningxia) Region.	June 27, 2018
Amazon Directory Service	Amazon Directory Service is now available in the China (Beijing) and China (Ningxia) Region.	June 20, 2018
Amazon Directory Service	Amazon Directory Service is now available in the China (Beijing) and China (Ningxia) Region.	June 20, 2018
Amazon Web Services China	Amazon Web Services China is now available in the China (Ningxia) Region. This guide has been updated to document differences between the Amazon Web Services China as currently implemented and described in other product guides and the China (Ningxia) Region.	December 11, 2017

Amazon Lambda	Amazon Lambda is now available in the China (Beijing) Region.	November 13, 2017
Amazon API Gateway	Amazon API Gateway is now available in the China (Beijing) Region.	November 13, 2017
Amazon Cognito	Amazon Cognito is now available in the China (Beijing) Region.	November 8, 2017
Amazon Redshift	Amazon Redshift is now available in the China (Beijing) and China (Ningxia) Region.	September 18, 2017
Amazon IoT	Amazon IoT is now available in the China (Beijing) Region.	July 12, 2017
Amazon ECS	Amazon Elastic Container Service is now available in the China (Beijing) Region.	July 6, 2017
Amazon ECR	Amazon Elastic Container Registry is now available in the China (Beijing) Region.	July 6, 2017
Amazon CodeDeploy	Amazon CodeDeploy is now available in the China (Beijing) Region.	March 29, 2017
Amazon Config	Amazon Config is now available in the China (Beijing) Region.	October 24, 2016
Amazon Redshift	Amazon Redshift is now available in the China (Beijing) Region.	March 17, 2016

Amazon Kinesis	Amazon Kinesis is now available in the China (Beijing) Region.	July 22, 2015
Amazon CloudTrail	Amazon CloudTrail is now available in the China (Beijing) Region.	June 9, 2015
Amazon Direct Connect	Amazon Direct Connect is now available in the China (Beijing) Region.	April 14, 2015
Initial publication	This is the first publication of *Getting Started with Amazon Web Services China* . This guide provides a general overview of Amazon Web Services China and document differences between the services available in the China (Beijing) Region and services available elsewhere.	April 10, 2014