
Getting Started with Amazon AWS



Getting Started with Amazon AWS:

Table of Contents

Welcome	1
What Is Amazon AWS?	2
Managing Amazon AWS	2
Signup, Accounts, and Credentials	3
Signup	3
Internal Access Account	3
Full Access Account	3
IAM Credentials	4
Billing and Payment	4
Tax Settings	4
ICP Recordal	4
Price List API	5
Using the Console	5
Documentation by Service	6
Amazon API Gateway	8
Amazon EC2 Auto Scaling	10
AWS CloudFormation	11
AWS CloudTrail	14
Amazon CloudWatch	15
AWS CodeBuild	17
AWS CodeDeploy	19
Amazon Cognito	20
AWS Config	22
AWS Database Migration Service	23
AWS Direct Connect	25
AWS Deep Learning AMI	26
AWS Directory Service	28
Amazon DynamoDB	30
Amazon ElastiCache	31
Amazon Elasticsearch Service	33
AWS Elastic Beanstalk	34
Amazon Elastic Compute Cloud	36
Amazon Elastic Container Registry	38
Amazon Elastic Container Service	39
Elastic Load Balancing	41
Amazon EMR	43
Amazon GameLift	46
Amazon S3 Glacier	47
AWS Identity and Access Management	49
AWS IoT	51
Amazon Kinesis Streams	52
Amazon Kinesis Data Firehose	53
AWS Lambda	55
AWS Management Console	56
Amazon Polly	58
Amazon Redshift	59
Amazon Relational Database Service	61
AWS Server Migration Service	63
Amazon Simple Notification Service	64
Snowball	65
Amazon Simple Storage Service	67
Amazon Simple Queue Service	69
Amazon Simple Workflow Service	70
AWS Step Functions	72

AWS Storage Gateway	73
AWS Support	74
AWS Systems Manager	76
Amazon Virtual Private Cloud	78
Services Unsupported in Amazon AWS	79
AWS Developer Tools	80
AWS SDKs	81
AWS Command Line Tools	81
IDE Toolkits	81
Amazon AWS Support and Other Resources	82
AWS Support API	82
Document History	83

Welcome



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

This guide also documents differences between the Amazon AWS services 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 \(p. 6\)](#).

Again, welcome to the *Getting Started* guide, and welcome to Amazon AWS.

What Is Amazon AWS?

Amazon AWS 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 AWS technology.

Amazon AWS 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 AWS 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 AWS, and you pay for your virtual server only while it runs. Backed by Amazon AWS, your virtual server can do things no physical server can, such as automatically scaling into multiple servers when demand increases.

Using Amazon AWS 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 AWS 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 AWS products are available in the China Regions.

The following topics will help you get started with Amazon AWS.

Topics

- [Managing Amazon AWS \(p. 2\)](#)
- [Signup, Accounts, and Credentials \(p. 3\)](#)
- [Billing and Payment \(p. 4\)](#)
- [Using the Console \(p. 5\)](#)

Managing Amazon AWS

There are several tools that you can use to create and manage Amazon AWS resources.

- **AWS Management Console** – A graphical user interface that you access online at <https://console.amazonaws.cn>. The AWS Management Console is the fastest way to get started with Amazon AWS; 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 \(p. 5\)](#) or [the service documentation](#).
- **AWS Command Line Interface (AWS CLI)** – A text-based tool that you install on your desktop. With the AWS CLI, you can manage and script against multiple Amazon AWS resources directly from the command line. Some services also offer custom CLIs. For more information, see [AWS Command Line Tools \(p. 81\)](#).
- **Software Development Kits (SDKs)** – Class libraries and tools that you add to your application so it can manage Amazon AWS resources. AWS offers SDKs in a variety of programming and scripting languages. The SDKs are the easiest way to write applications that interface with Amazon AWS; they provide functions that you can call to authenticate your application's connection to Amazon AWS. For more information, see [AWS SDKs \(p. 81\)](#)
- **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 Beijing Region, and <https://dynamodb.cn-northwest-1.amazonaws.com.cn> for the 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 AWS services, you need an account and credentials specific to Amazon AWS, the suite of Amazon Web Services available in the Beijing and Ningxia (China) Regions. Accounts created for other AWS Regions won't work for Amazon AWS. Similarly, Amazon AWS accounts won't work in AWS Regions outside the Beijing and Ningxia Regions. To use services in another Region, Amazon AWS customers need to sign up for an account in that Region.

To comply with Chinese law and regulations, Amazon AWS customers who want to make content publicly available via Amazon AWS 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 AWS customers are granted an Internal Access Account, which provides limited access to Amazon AWS features. Amazon AWS 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 AWS services for personal projects or for projects internal to their organization. To use all of the Amazon AWS features, customers need a Full Access Account. The two account types are described in more detail below.

Signup

The AWS Management Console walks you through the process of signing up for Amazon AWS. The steps below provide a high-level overview of signup.

To sign up for Amazon AWS:

1. Go to www.amazonaws.cn and register with Amazon AWS.
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 AWS account credentials. The credentials consist of an account ID, access key ID, and secret access key. Note that you can't use your Amazon AWS credentials to access any other AWS Region.

Internal Access Account

An Internal Access Account provides limited access to Amazon AWS services. Internal Access Accounts are granted to Amazon AWS customers who don't intend to host public content directly from their Amazon AWS 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 AWS customers who have completed ICP recordal. A Full Access Account provides full access to Amazon AWS features.

IAM Credentials

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

The administrator has full access to manage Amazon AWS resources. For example, as the administrator, you can create additional IAM users by using the Amazon AWS 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 AWS, see [AWS Identity and Access Management \(p. 49\)](#).

Billing and Payment

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

Note that some features described in the AWS documentation may not be available in the current Amazon AWS release.

In the case of AWS Billing and Cost Management, the free pricing tier is not included in the China Regions.

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 [Deposit Reports into an Amazon S3 Bucket](#) in the *AWS Billing and Cost Management User Guide*.

Tax Settings

For each Amazon AWS account you create, you can enter your tax information on the Tax Settings page of the AWS 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 AWS.

To enter your tax information:

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

ICP Recordal

To use Amazon AWS 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 AWS Billing and Cost Management console. You will be redirected to a third-party site that handles the process.

To file for ICP recordal:

1. Log into the AWS Management Console and choose your account name in the top navigation bar.
2. To open the AWS Billing and Cost Management console, choose **Billing & Cost Management**.

3. In the AWS Billing and Cost Management console, choose the ICP recordal link and follow the instructions on the page.

Price List API

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

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

Service Endpoint

AWS Price List Service API provides the following endpoints:

- <https://pricing.amazonaws.com>
- <https://pricing.cn-north-1.amazonaws.com.cn>

You can also get pricing information from the following URLs:

- <https://pricing.amazonaws.com/offers/v1.0/cn/index.json>
- <https://pricing.cn-north-1.amazonaws.com.cn/offers/v1.0/cn/index.json>

Using the Console

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

For console access, use your IAM user name and password to sign in to the [AWS Management Console](#) using the [IAM sign-in page](#). IAM lets you securely control access to AWS services and resources in your AWS account.

Documentation by Service

The following topics describe the services available in the Beijing and Ningxia (China) 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 AWS services in the China Regions use a region-specific console. The AWS documentation might show screenshots of the console for other Regions; changes in service functionality are documented in the topics for each service.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

Chinese is the default language for Amazon AWS documentation. To switch to the English version of the page, use the language selection dropdown at the top of the page. *Note:* Selecting a different language will update the language cookie, making it the default language.

Chinese-language URL syntax:

```
http://docs.amazonaws.cn/aws/latest/userguide/introduction.html
```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Topics

- [Amazon API Gateway \(p. 8\)](#)
- [Amazon EC2 Auto Scaling \(p. 10\)](#)
- [AWS CloudFormation \(p. 11\)](#)
- [AWS CloudTrail \(p. 14\)](#)
- [Amazon CloudWatch \(p. 15\)](#)
- [AWS CodeBuild \(p. 17\)](#)
- [AWS CodeDeploy \(p. 19\)](#)
- [Amazon Cognito \(p. 20\)](#)
- [AWS Config \(p. 22\)](#)
- [AWS Database Migration Service \(p. 23\)](#)
- [AWS Direct Connect \(p. 25\)](#)
- [AWS Deep Learning AMI \(p. 26\)](#)
- [AWS Directory Service \(p. 28\)](#)
- [Amazon DynamoDB \(p. 30\)](#)
- [Amazon ElastiCache \(p. 31\)](#)
- [Amazon Elasticsearch Service \(p. 33\)](#)
- [AWS Elastic Beanstalk \(p. 34\)](#)
- [Amazon Elastic Compute Cloud \(p. 36\)](#)
- [Amazon Elastic Container Registry \(p. 38\)](#)
- [Amazon Elastic Container Service \(p. 39\)](#)
- [Elastic Load Balancing \(p. 41\)](#)
- [Amazon EMR \(p. 43\)](#)
- [Amazon GameLift \(p. 46\)](#)
- [Amazon S3 Glacier \(p. 47\)](#)
- [AWS Identity and Access Management \(p. 49\)](#)
- [AWS IoT \(p. 51\)](#)
- [Amazon Kinesis Streams \(p. 52\)](#)
- [Amazon Kinesis Data Firehose \(p. 53\)](#)
- [AWS Lambda \(p. 55\)](#)
- [AWS Management Console \(p. 56\)](#)
- [Amazon Polly \(p. 58\)](#)

- [Amazon Redshift \(p. 59\)](#)
- [Amazon Relational Database Service \(p. 61\)](#)
- [AWS Server Migration Service \(p. 63\)](#)
- [Amazon Simple Notification Service \(p. 64\)](#)
- [Snowball \(p. 65\)](#)
- [Amazon Simple Storage Service \(p. 67\)](#)
- [Amazon Simple Queue Service \(p. 69\)](#)
- [Amazon Simple Workflow Service \(p. 70\)](#)
- [AWS Step Functions \(p. 72\)](#)
- [AWS Storage Gateway \(p. 73\)](#)
- [AWS Support \(p. 74\)](#)
- [AWS Systems Manager \(p. 76\)](#)
- [Amazon Virtual Private Cloud \(p. 78\)](#)
- [Services Unsupported in Amazon AWS \(p. 79\)](#)

Amazon API Gateway

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 AWS 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 AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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Chinese-language URL syntax:

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http://docs.amazonaws.cn/aws/latest/userguide/introduction.html
```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon API Gateway is unique in the following ways:

- Because Amazon CloudFront is not available in the Beijing and Ningxia Regions, to call API Gateway APIs in the Beijing and Ningxia Regions, you must use Beijing Region-specific or Ningxia Region-specific endpoints.
- Because Amazon CloudFront is not available in the Beijing and Ningxia Regions, edge-optimized APIs and edge-optimized custom domain names are not supported.
- Because AWS Certificate Manager is not available in the Beijing and Ningxia Regions, you must upload the certificate content to API Gateway.
- Filing for Internet Content Provider (ICP) recordal—If you want to service API requests in the Beijing Region that can be accessed without authentication, you must obtain an ICP license. For information about filing for ICP recordal, see [Billing and Payment \(p. 4\)](#). You may also need to refile for ICP whitelisting for API Gateway in the Ningxia Region even if you already filed for it in the Beijing Region.
- The following API Gateway features are either unavailable in the Beijing and Ningxia Regions or require an ICP license:
 - API Gateway serves unauthenticated API requests only if the API owner's Amazon AWS 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 AWS account is associated with an ICP license.
 - You cannot use Alias A records for custom domain names. You must create a CNAME that points to the regional custom domain endpoint.

- The following API Gateway features are unavailable in the Beijing and Ningxia Regions:
 - API Gateway private integrations
 - API Gateway private APIs

User Guides

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

- [API Gateway Developer Guide](#)
- [API Gateway API Reference](#)

Amazon EC2 Auto Scaling

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.

- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Auto Scaling is unique in the following ways:

- Amazon EC2 provides certain restrictions. For more information, see [the section called “Amazon Elastic Compute Cloud” \(p. 36\)](#).

User Guides

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

- [Amazon EC2 Auto Scaling User Guide](#)
- [Amazon EC2 Auto Scaling API Reference](#)

AWS CloudFormation

AWS CloudFormation enables you to create and provision Amazon AWS infrastructure deployments predictably and repeatedly. It helps you leverage Amazon AWS 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 AWS infrastructure. AWS CloudFormation enables you to use a template file to create and delete a collection of resources together as a single unit (a stack).

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services

operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.

- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS CloudFormation is unique in the following ways:

- Amazon AWS supports a subset of AWS services and a single Availability Zone and Region; you may need to modify AWS CloudFormation sample templates and template snippets to conform to these differences.
- To download sample templates for AWS CloudFormation in the Beijing Region, see [AWS CloudFormation Sample Templates](#).

- To download sample templates for AWS CloudFormation in the Ningxia Region, see [AWS CloudFormation Sample Templates](#).
- AWS CloudFormation doesn't support the AWS::Include transform.
- AWS CloudFormation doesn't support the following resources:
 - AWS::Batch::ComputeEnvironment
 - AWS::Batch::JobDefinition
 - AWS::Batch::JobQueue
 - AWS::CloudWatch::Dashboard
 - AWS::CloudWatch::Dashboard
 - AWS::CloudWatch::Dashboard
 - AWS::CodeBuild::Project
 - AWS::CodeCommit::Repository
 - AWS::Cognito::IdentityPool
 - AWS::Cognito::IdentityPool
 - AWS::Cognito::IdentityPool
 - AWS::Cognito::IdentityPool
 - AWS::Cognito::IdentityPoolRoleAttachment
 - AWS::Cognito::UserPool
 - AWS::Cognito::UserPoolClient
 - AWS::Cognito::UserPoolGroup
 - AWS::Cognito::UserPoolGroup
 - AWS::Cognito::UserPoolUser
 - AWS::Cognito::UserPoolUser
 - AWS::Cognito::UserPoolUser
 - AWS::Cognito::UserPoolUser
 - AWS::Cognito::UserPoolUser
 - AWS::Cognito::UserPoolUserToGroupAttachment
 - AWS::DAX::Cluster
 - AWS::DAX::ParameterGroup
 - AWS::WAFRegional::XssMatchSetItem
 - 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::SSM::Parameter
 - AWS::SSM::Parameter
 - AWS::SSM::Parameter
 - AWS::StepFunctions::Activity

- `AWS::StepFunctions::StateMachine`
- `AWS::WAFRegional::ByteMatchSet`
- `AWS::WAFRegional::IPSet`
- `AWS::WAFRegional::Rule`
- `AWS::WAFRegional::SizeConstraintSet`
- `AWS::WAFRegional::SqlInjectionMatchSet`
- `AWS::WAFRegional::WebACL`
- `AWS::WAFRegional::WebACLAssociation`
- `AWS::WAFRegional::XssMatchSet`

User Guides

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- [AWS CloudFormation User Guide](#)
- [AWS CloudFormation API Reference](#)

AWS CloudTrail

With AWS CloudTrail, you can monitor your AWS deployments in the cloud by getting a history of AWS API calls for your account, including API calls made via the AWS Management Console, the AWS SDKs, the command line tools, and higher-level AWS services. You can also identify which users and accounts called AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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English-language URL syntax:

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```

Feature Availability and Implementation Differences

The Amazon AWS implementation of CloudTrail is unique in the following ways:

- AWS Key Management Service is not currently supported by CloudTrail in the Beijing and Ningxia Regions. For more information, see [Supported Services](#) in the *AWS CloudTrail User Guide*.
- Log file encryption and log file integrity validation are not currently supported by CloudTrail in the Beijing and Ningxia Regions.

User Guides

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- [AWS CloudTrail User Guide](#)
- [AWS CloudTrail API Reference](#)

Amazon CloudWatch

Amazon CloudWatch monitors your Amazon AWS resources and the applications you run on Amazon AWS 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 (AWS) 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, AWS CloudTrail, and other sources.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
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- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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English-language URL syntax:

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```

Feature Availability and Implementation Differences

The Amazon AWS implementation of CloudWatch is unique in the following ways:

- CloudWatch metrics and alerts are not currently available for the following services:
 - AWS Billing and Cost Management
 - Amazon ElastiCache
 - AWS OpsWorks
 - Amazon Redshift
 - Amazon Route 53
- The CloudWatch Monitoring scripts for Windows are not available in the Beijing and Ningxia Regions. However, that functionality is now available through the EC2Config and CloudWatch Logs services.
- CloudWatch Logs subscriptions to AWS Lambda and Kinesis streams aren't available in the Beijing and Ningxia Regions.
- CloudWatch automatic dashboards are not supported. Other CloudWatch dashboards are supported.

User Guides

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

- [Amazon CloudWatch User Guide](#)
- [Amazon CloudWatch API Reference](#)

AWS CodeBuild

AWS CodeBuild is a fully managed build service that compiles source code, runs tests, and produces software packages that are ready to deploy. With AWS CodeBuild, you don't need to provision, manage, and scale your own build servers. AWS 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 AWS CodeBuild, you are charged by the minute for the compute resources you use.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.

- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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English-language URL syntax:

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```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS CodeBuild is unique in the following ways:

- CodeBuild artifacts by default use AWS KMS for encryption. AWS KMS is not available in the Beijing and Ningxia Regions. Therefore, customers must build their artifacts to encrypted Amazon S3 buckets instead.
- AWS CodePipeline is not available in the Beijing and Ningxia Regions. Therefore, integration with AWS CodePipeline is not supported.
- AWS CodeCommit is not available in the Beijing and Ningxia Regions. Therefore, AWS CodeCommit is not available as a source repository.
- Use of VPC endpoints is not available in the Beijing and Ningxia Regions. Therefore, the use of an interface VPC endpoint is not supported.

User Guides

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[AWS CodeBuild](#)

AWS CodeDeploy

AWS CodeDeploy is a service that automates code deployments to any instance, including Amazon EC2 instances and instances running on-premises. AWS 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 AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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English-language URL syntax:

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```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS CodeDeploy is unique in the following ways:

- Amazon ECS deployments are not supported in the Beijing and Ningxia Regions.
- AWS Lambda deployments are not supported in the Beijing and Ningxia Regions.

User Guides

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- [AWS CodeDeploy User Guide](#)
- [AWS CodeDeploy API Reference](#)

Amazon Cognito

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.

- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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English-language URL syntax:

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```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon Cognito is unique in the following ways:

- Amazon Cognito User Pools are not currently available in the Beijing Region.
- Amazon Cognito Federated Identities do not currently support Facebook or Twitter as identity providers in the 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`.

User Guides

Amazon AWS user guides are available in HTML and PDF, in both Chinese and English. API guides are available in HTML and PDF, in English only. Currently, the API guides are not available in the Beijing and

Ningxia Regions. Links to API guides will take you to the global AWS site. Note that some features and functionality described in the guides may not be available in the current Amazon AWS release.

- [Amazon Cognito Developer Guide](#)
- [Amazon Cognito API Reference](#)

AWS Config

AWS Config provides a detailed view of the configuration of AWS resources in your AWS 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 AWS *resource* is an entity that you can work with in AWS, such as an Amazon Elastic Compute Cloud (Amazon EC2) instance, AWS Identity and Access Management (IAM) user, or an Amazon Simple Storage Service (Amazon S3) bucket.

With AWS Config, you can do the following:

- Evaluate your AWS resource configurations for desired settings.
- Get a snapshot of the current configurations of the supported resources that are associated with your AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
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- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS Config is unique in the following ways:

- AWS Config does not currently support recording for the following resource types in the Beijing and Ningxia Regions:
 - ACM Certificate
 - Amazon VPC customer gateway and VPN connection

User Guides

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- [AWS Config Developer Guide](#)
- [AWS Config API Reference](#)

AWS Database Migration Service

AWS Database Migration Service (AWS 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 AWS DMS to migrate your data into the AWS Cloud, between on-premises instances, or between combinations of cloud and on-premises setups.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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English-language URL syntax:

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```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS Database Migration Service is unique in the following ways:

- The use of an AWS Key Management Service (KMS) key to encrypt information stored on a replication instance is not supported.

User Guides

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- [AWS Database Migration Service User Guide](#)

AWS Direct Connect

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

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
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- In AWS 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.
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 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

Chinese is the default language for Amazon AWS documentation. To switch to the English version of the page, use the language selection dropdown at the top of the page. *Note:* Selecting a different language will update the language cookie, making it the default language.

Chinese-language URL syntax:

```
http://docs.amazonaws.cn/aws/latest/userguide/introduction.html
```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS Direct Connect is unique in the following ways:

- IPv6 is not supported.
- You can access the China (Beijing) only from the following AWS Direct Connect location that supports it. This AWS Direct Connect location cannot reach any other AWS Region. For more information, see [Requesting Cross Connects at AWS Direct Connect Locations](#).
 - Sinnet Jiuxianqiao IDC
 - CIDS Jiachuang IDC
- You can access the China (Ningxia) Region only from the following AWS Direct Connect location that supports it. This AWS Direct Connect location cannot reach any other AWS Region. For more information, see [Requesting Cross Connects at AWS Direct Connect Locations](#).
 - Industrial Park IDC
 - Shapotou IDC

User Guides

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

- [AWS Direct Connect User Guide](#)
- [AWS Direct Connect API Reference](#)

AWS Deep Learning AMI

The AWS Deep Learning AMI (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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services

operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.

- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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Chinese-language URL syntax:

```
http://docs.amazonaws.cn/aws/latest/userguide/introduction.html
```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Deep Learning AMI is unique in the following ways:

- The AWS Marketplace is not available in China Regions.
- You must launch Deep Learning AMIs through the EC2 QuickStart tab. Because the AWS Marketplace is not available, all eight DLAMIs are available on the QuickStart tab. In other AWS 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.

User Guides

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

- [AWS Deep Learning AMI Developer Guide](#)

AWS Directory Service

AWS Directory Service provides multiple ways to use Microsoft Active Directory (AD) with other AWS services. Directories store information about users, groups, and devices, and administrators use them to manage access to information and resources. AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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http://docs.amazonaws.cn/aws/latest/userguide/introduction.html
```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS Directory Service is unique in the following ways:

- Only the AWS Managed Microsoft AD directory type is supported by AWS Directory Service in the Beijing and Ningxia Regions.
- The following directory types are not currently supported in the Beijing and Ningxia Regions:
 - Simple AD
 - AD Connector
 - Amazon Cloud Directory
- The following AWS Managed Microsoft AD features are not currently supported in the Beijing and Ningxia Regions:
 - Multi-factor authentication (MFA)
 - Amazon EC2 seamless domain join
 - Mapping users to IAM roles for access to the AWS Management Console
- The following AWS services are not currently supported by AWS Directory Service in the Beijing and Ningxia Regions:
 - Amazon WorkSpaces
 - Amazon WorkDocs
 - Amazon WorkMail
 - Amazon QuickSight
 - Amazon Chime
 - Amazon Connect
 - AWS Management Console
- Amazon Resource Names (ARNs) and endpoints have different values in the Beijing and Ningxia Regions.
- Only signature version 4 signing is supported in the Beijing and Ningxia Regions.

User Guides

Amazon AWS user guides are available in HTML and PDF, in both Chinese and English. API guides are available in HTML and PDF, in English only. Currently, the API guides are not available in the Beijing and

Ningxia Regions. Links to API guides will take you to the global AWS site. Note that some features and functionality described in the guides may not be available in the current Amazon AWS release.

- [AWS Directory Service Administration Guide](#)
- [AWS Directory Service API Reference](#)

Amazon DynamoDB

Amazon DynamoDB is a fully managed NoSQL database service that provides fast and predictable performance with seamless scalability. If you are a developer, you can use Amazon DynamoDB to create a database table that can store and retrieve any amount of data, and serve any level of request traffic. Amazon DynamoDB automatically spreads the data and traffic for the table over a sufficient number of servers to handle the request capacity specified by the customer and the amount of data stored, while maintaining consistent and fast performance. All data items are stored on solid-state disks (SSDs).

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon DynamoDB is unique in the following ways:

- **Web identity federation**—Some web identity providers (for example, social media platforms) might not be available in the Beijing and Ningxia Regions.

User Guides

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

- [Amazon DynamoDB Developer Guide](#)
- [Amazon DynamoDB API Reference](#)
- [Amazon DynamoDB Streams API Reference](#)

Amazon ElastiCache

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.

- The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
- For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
- For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
- For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of ElastiCache is unique in the following way:

- When granting ElastiCache read access to your `.rdb` file on Amazon S3 in the Beijing and Ningxia Regions, type the canonical ID `b14d6a125bdf69854ed8ef2e71d8a20b7c490f252229b806e514966e490b8d83` in the **Grantee** field instead of `aws-scs-s3-readonly@amazon.com`.
- Currently, the Beijing Region supports a single Availability Zone. As a result, flexible node placement is not available for Memcached caches, and Multi-AZ replication is not available for Redis nodes.
- Currently, ElastiCache does not have a graphical console in the Beijing and Ningxia Regions. As a result, all work with ElastiCache must use either the CLI or APIs.
- When granting ElastiCache read access to your `.rdb` file on Amazon S3 in the Beijing and Ningxia Regions, type the canonical ID `b14d6a125bdf69854ed8ef2e71d8a20b7c490f252229b806e514966e490b8d83` in the **Grantee** field instead of `aws-scs-s3-readonly@amazon.com`.
- Currently, ElastiCache for Redis encryption features, in-transit and at-rest, aren't supported in the Beijing and Ningxia Regions.

User Guides

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

- [Amazon ElastiCache User Guide](#)
- [Amazon ElastiCache API Reference](#)

Amazon Elasticsearch Service

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

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon ES is unique in the following ways:

- Limited instance types—Only some Amazon ES instance types are available.
- No encryption—Encryption of data at rest is not available.

User Guides

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

- [Amazon Elasticsearch Service Developer Guide](#)

AWS Elastic Beanstalk

With AWS Elastic Beanstalk, you can quickly deploy and manage applications in the AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.

- The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
- For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
- For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
- For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Elastic Beanstalk is unique in the following ways:

- 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 *AWS 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`. In the Ningxia Region, environment domains generated by Elastic Beanstalk are formatted as follows, where * denotes the custom domain: `*.cn-northwest-1.eb.amazonaws.com.cn`.

User Guides

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

- [AWS Elastic Beanstalk Developer Guide](#)
- [AWS Elastic Beanstalk API Reference](#)

Amazon Elastic Compute Cloud

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam:123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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English-language URL syntax:

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http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon EC2 is unique in the following ways:

- **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 \(p. 3\)](#).
- **Limited instance types**—Only some Amazon EC2 instance types are available.
- **No Amazon EBS Encryption**—Amazon EBS volume encryption is not available.
- **No AWS Systems Manager for Microsoft System Center Virtual Machine Manager**—SCVMM is not available.
- **EC2 AMI Tools**—The Beijing and 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 Beijing Region, and the `--ec2cert $EC2_AMITOOL_HOME/etc/ec2/amitools/cert-ec2-cn-northwest-1.pem` option in the Ningxia Region.
- **Cross-region copy operations** are supported only between the Beijing Region and the Ningxia Region.
- **VM Export**—The Amazon S3 bucket for the destination image must exist and must have `WRITE` and `READ_ACP` permissions granted to the Beijing Region account with the following canonical ID: `834bafd86b15b6ca71074df0fd1f93d234b9d5e848a2cb31f880c149003ce36f`.
- By default, **enhanced networking** is not enabled on Windows Server 2012 R2 AMIs. For more information, see [Enabling Enhanced Networking on Windows Instances in a VPC](#).
- **Tagging**—Tagging resources during creation is not supported. You can tag resources only after creating them.
- **IPv6** is not supported.
- **Parameter Store secure string parameters** are not supported.
- **Systems Manager Automation** — The `aws:copyImage` action is not supported.
- **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 AWS service name and `AWSEC2SpotServiceRolePolicy` as the policy.
- **Reserved Instances:**
 - **No Reserved Instance Marketplace**—The Reserved Instance Marketplace is not available.
 - **No three-year-term Standard Reserved Instances**—Standard Reserved Instances are not available in three-year terms.
 - **Reserved Instance Discount Pricing Tiers**—For more information, see [Understanding Reserved Instance Discount Pricing Tiers](#).

Pricing Tiers

Total List Value of Reserved Instances	Upfront discount	Hourly discount
Less than ¥3200000	0%	0%

Total List Value of Reserved Instances	Upfront discount	Hourly discount
¥3200000 to ¥25000000	5%	5%
¥25000000 to ¥64000000	10%	10%
More than ¥64000000	Contact us	Contact us

- **T2 Unlimited** and **T3 Unlimited** are not supported.

User Guides

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- [Amazon EC2 User Guide for Linux Instances](#)
- [Amazon EC2 User Guide for Windows Instances](#)
- [Amazon EC2 API Reference](#)

Command Line Interface (CLI)

To interact with Amazon Web Services from the command line, you can use the [AWS Command Line Tools \(p. 81\)](#). For some services, a service-specific command line interface (CLI) is also available.

- [Download the Amazon EC2 API Tools](#)

Amazon Elastic Container Registry

Amazon Elastic Container Registry (Amazon ECR) is a managed AWS Docker registry service that is secure, scalable, and reliable. Amazon ECR supports private Docker repositories with resource-based permissions using AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.

- For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
- For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
- For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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- [Amazon Elastic Container Registry User Guide](#)
- [Amazon Elastic Container Registry API Reference](#)

Amazon Elastic Container Service

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon ECS is unique in the following ways:

- The following features are not available in the China (Beijing) Region:
 - Service Discovery
- The following features are not available in the China (Ningxia) Region:
 - Service Discovery
 - AWS CloudFormation support
 - CodePipeline support

User Guides

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

- [Amazon Elastic Container Service Developer Guide](#)
- [Amazon Elastic Container Service API Reference](#)

Elastic Load Balancing

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Elastic Load Balancing is unique in the following ways:

- Because Amazon Route 53 is not available in the Beijing and Ningxia Regions, Elastic Load Balancing doesn't support Route 53 features. You can use CNAME to associate your custom domain name with your load balancer name.
- Elastic Load Balancing does not support Internet Protocol version 6 (IPv6) in the Beijing and Ningxia Regions. Elastic Load Balancing provides a public DNS name for your load balancer that returns Internet Protocol version 4 (IPv4) records.

User Guides

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- [Elastic Load Balancing User Guide](#)
- [Elastic Load Balancing API Reference version 2012-06-01](#)

Command Line Interface (CLI)

To interact with Amazon Web Services from the command line, you can use the [AWS Command Line Tools \(p. 81\)](#). For some services, a service-specific command line interface (CLI) is also available.

Note

Currently, the Elastic Load Balancing Command Line Tools must be downloaded from outside the China Regions.

- [Download the Elastic Load Balancing Command Line Tools](#)

Amazon EMR

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 AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon EMR is unique in the following ways:

- Amazon EMR does not support AMI version 2.4.11 and earlier in the Beijing and 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 following table indicates which instance are available to be used with Amazon EMR in the Beijing and 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
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

Instance Type	China (Beijing)	China (Ningxia)
m3.2xlarge	Yes	No
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
r4.4xlarge	Yes	Yes
r4.8xlarge	Yes	Yes
r4.16xlarge	Yes	Yes

User Guides

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- 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)

Command Line Interface (CLI)

To interact with Amazon Web Services from the command line, you can use the [AWS Command Line Tools](#) (p. 81). For some services, a service-specific command line interface (CLI) is also available.

- [Download the Amazon EMR CLI](#)

Amazon GameLift

Amazon GameLift is a fully managed service for deploying, operating, and scaling your session-based multiplayer game servers in the cloud. Amazon GameLift 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 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 provides robust tool for matchmaking with FlexMatch.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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English-language URL syntax:

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```

Feature Availability and Implementation Differences

In addition to Amazon AWS implementation differences common to all AWS services in China regions, the implementation of Amazon GameLift is unique in the following ways:

- 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 a China region; destinations in non-China regions cannot be used. In addition, destinations that run in a China region cannot be used by a queue that is in a non-China region.
- For FlexMatch matchmaking, matchmaking configurations that are created and run in a China region must use only queues that are also in a China region; queues in non-China regions cannot be used. In addition, queues that run in a China region cannot be used by a matchmaking configuration that is in a non-China region.

User Guides

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- [Amazon GameLift Developer Guide](#)
- [Amazon GameLift API Reference](#)

Amazon S3 Glacier

Amazon S3 Glacier is a low-cost storage service that provides secure and durable storage for data archiving and backup. With Glacier, customers can store their data cost effectively for months, years, or even decades. Amazon S3 Glacier enables customers to offload the administrative burdens of operating and scaling storage to Amazon AWS, so they don't have to worry about capacity planning, hardware provisioning, data replication, hardware failure detection and recovery, or time-consuming hardware migrations.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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User Guides

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

- [Amazon S3 Glacier Developer Guide](#)

AWS Identity and Access Management

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

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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Chinese-language URL syntax:

```
http://docs.amazonaws.cn/aws/latest/userguide/introduction.html
```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of IAM is unique in the following ways:

- **Users and credentials**—In the Beijing and Ningxia Regions, there is no concept of "root" or "account" user or credentials. All users are IAM users, including the user who created the account.
- **No hardware or SMS MFA**—The Beijing and 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 (for example, social media platforms) might not be available in the Beijing and Ningxia Regions.
- **AWS API Signature Version**—Services available in the Beijing and Ningxia Regions support only signature version 4 signing.
- **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 (for example, Amazon EC2), the service principal name has the following format, with "service" replaced by the name of the service:

```
service.amazonaws.com.cn
```

For more information, see [Creating a Role to Delegate Permissions to an AWS 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 Beijing and Ningxia Regions.
- In the 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 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 Beijing Region and Ningxia Region, after you switch to a role in the AWS 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 AWS services support [service-linked roles](#) in the Beijing and Ningxia Regions. For information about which services support using service-linked roles, see [AWS 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.
- Data about when an IAM identity (user, group, or role) last attempted to access an AWS service through permissions granted by an IAM policy is not available. For more information, see [Service Last Accessed Data](#).

User Guides

Amazon AWS user guides are available in HTML and PDF, in both Chinese and English. API guides are available in HTML and PDF, in English only. Currently, the API guides are not available in the Beijing and

Ningxia Regions. Links to API guides will take you to the global AWS site. Note that some features and functionality described in the guides may not be available in the current Amazon AWS release.

- [IAM User Guide](#)
- [IAM API Reference](#)

AWS IoT

AWS IoT provides secure, bi-directional communication between Internet-connected things (such as sensors, actuators, embedded devices, or smart appliances) and the AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS IoT is unique in the following ways:

- Currently, IoT is available only in the Beijing Region.
- The following aren't supported:
 - The `firehose` AWS IoT rule action
 - Amazon Cognito
 - Encryption of stored data (data at rest) for the fleet indexing service

User Guides

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

- [AWS IoT Getting Started Guide](#)
- [AWS IoT API Reference](#)

Amazon Kinesis Streams

Kinesis is a platform for streaming data on AWS, 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 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.

Note

Amazon Kinesis Firehose and Amazon Kinesis Analytics are not available in the Beijing and Ningxia Regions.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.

- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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```

User Guides

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- [Amazon Kinesis Data Streams Developer Guide](#)
- [Amazon Kinesis Data Streams API Reference](#)

Amazon Kinesis Data Firehose

Amazon Kinesis Data Firehose is part of the Kinesis streaming data platform. With Kinesis Data Firehose, you don't need to write applications or manage resources. You configure your data procedures to send

data to Kinesis Data Firehose, and it automatically delivers the data to the destination that you specified. You can also configure Kinesis Data Firehose to transform your data before delivering it.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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http://docs.amazonaws.cn/aws/latest/userguide/introduction.html
```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Kinesis Data Firehose is unique in the following ways:

- Splunk and Amazon Redshift aren't available as destinations.
- Data encryption isn't supported.
- You can't use record format conversion to convert your data to the Apache Parquet or Apache ORC formats.

User Guides

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

- [Amazon Kinesis Data Firehose Developer Guide](#)
- [Amazon Kinesis Data Firehose API Reference](#)

AWS Lambda

AWS Lambda is a compute service that lets you run code without provisioning or managing servers. AWS 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 AWS Lambda, you can run code for virtually any type of application or backend service—all with zero administration. AWS 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 AWS Lambda supports (currently Node.js, Java, C#, Go and Python).

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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Chinese-language URL syntax:

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http://docs.amazonaws.cn/aws/latest/userguide/introduction.html
```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS Lambda is unique in the following ways:

- The following AWS Lambda features are unavailable in the Beijing and Ningxia Regions:
 - Lambda environment variables

User Guides

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

- [AWS Lambda Developer Guide and API Reference](#)

AWS Management Console

The AWS 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 AWS account, including monitoring your monthly spending by service, managing security credentials, or even setting up new IAM users. The console also provides tools to locate and navigate to the services you need. You can select services from the *Recently visited services* section, expand the *All services* section, or search for services by name or keyword.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS Management Console is unique in the following ways:

- The console does not support Resource Groups in the Beijing and Ningxia Regions.
- The console does not support Tag Editor in the Beijing and Ningxia Regions.

- The console is not available as a mobile app in the Beijing and Ningxia Regions.

User Guides

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

- [AWS Management Console Getting Started Guide](#)

Amazon Polly

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon Polly is unique in the following ways:

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

User Guides

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

- [Amazon Polly Developer Guide](#)

Amazon Redshift

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

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.

- For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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```

English-language URL syntax:

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http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon Redshift is unique in the following ways:

- You can launch an Amazon Redshift cluster only in an EC2-VPC platform. EC2-Classical is not supported.
- Database encryption is supported only when using a default encryption key assigned by Amazon Redshift or when using an on-site hardware security module (HSM). AWS Key Management Service (AWS KMS) and AWS CloudHSM are not supported.
- Cross-region features, such as snapshot copying across regions and COPY from another region, are currently supported only between the Beijing Region and the Ningxia Region.
- The following node types are available:
 - `ds2.xlarge`
 - `ds2.8xlarge`
 - `dc1.large`
 - `dc1.8xlarge`
- The Amazon Redshift Getting Started 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 Beijing and Ningxia Regions.

User Guides

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

- [Amazon Redshift Getting Started](#)
- [Amazon Redshift Cluster Management Guide](#)
- [Amazon Redshift Database Developer Guide](#)
- [Amazon Redshift API Reference](#)

Amazon Relational Database Service

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

Chinese is the default language for Amazon AWS documentation. To switch to the English version of the page, use the language selection dropdown at the top of the page. *Note:* Selecting a different language will update the language cookie, making it the default language.

Chinese-language URL syntax:

```
http://docs.amazonaws.cn/aws/latest/userguide/introduction.html
```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon RDS is unique in the following ways:

- Multi-AZ deployments are not supported for DB instances running Microsoft SQL Server.
- Cross-region features, such as DB snapshot copying across regions and read replication across multiple regions, are currently not supported between the 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.
- The following DB instance classes are available:
 - **t1.micro**: 613 MB memory, up to 1 ECU, 64-bit platform, low I/O capacity.
 - **m1.small**: 1.7 GB memory, 1 ECU (1 virtual core with 1 ECU), 64-bit platform, moderate I/O capacity.
 - **m3.medium**: 3.75 GB memory, 3 ECUs, 64-bit platform, moderate I/O capacity.
 - **m3.large**: 7 GB memory, 6.5 ECUs, 64-bit platform, high I/O capacity.
 - **m3.xlarge**: 15 GB memory, 13 ECUs, 64-bit platform, high I/O capacity.
 - **m3.2xlarge**: 30 GB memory, 26 ECUs, 64-bit platform, high I/O capacity.
- You can have up to 20 manual snapshots for your account in the Beijing and Ningxia Regions.
- To use the Bring Your Own License model with a DB instance running Microsoft SQL Server, you must provide your Microsoft License Mobility Agreement information. Fill out the form once for each of your AWS accounts. In the Beijing and Ningxia Regions, you provide your License Mobility Agreement information by using the [AWS website form](#) to specify the number of licenses that you have.

User Guides

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

- [Amazon RDS User Guide](#)
- [Amazon RDS API Reference](#)

AWS Server Migration Service

AWS Server Migration Service automates the migration of your on-premises VMware vSphere or Microsoft Hyper-V/SCVMM virtual machines to the AWS Cloud. AWS SMS incrementally replicates your server VMs as cloud-hosted Amazon Machine Images (AMIs) ready for deployment on Amazon EC2. Working with AMIs, you can easily test and update your cloud-based images before deploying them in production.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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Feature Availability and Implementation Differences

The [Amazon Elastic Compute Cloud \(p. 36\)](#) regional differences apply to AWS SMS.

User Guides

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- [AWS SMS User Guide](#)
- [AWS SMS API Reference](#)

Amazon Simple Notification Service

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.

- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon SNS is unique in the following ways.

- The following Amazon SNS features are not yet available in the Beijing and Ningxia Regions:
 - [Mobile push notifications](#)
 - [SMS messaging](#)

User Guides

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

- [Amazon Simple Notification Service Developer Guide](#)
- [Amazon Simple Notification Service API Reference](#)

Snowball

AWS Snowball is a service for customers who want to transport terabytes or petabytes of data to and from Amazon AWS.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.

- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Snowball is unique in the following ways:

- Currently, only the China (Beijing) AWS Region is supported.
- Snowball Edge devices are not available.
- Shipping is handled by S.F. Express. For more information about shipping in China, see [Shipping Considerations for AWS Snowball](#) in the *AWS Snowball User Guide*.

User Guides

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

- [AWS Snowball User Guide](#)
- [AWS Snowball API Reference](#)

Amazon Simple Storage Service

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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Chinese-language URL syntax:

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon S3 is unique in the following ways:

- Creating an AWS account

To publish content in the Beijing and Ningxia Regions, you must sign up for an Amazon AWS account, which is specific to the Beijing and Ningxia Regions. This account will not work in other AWS 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 Beijing Region, see [Signup, Accounts, and Credentials \(p. 3\)](#).

- 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 [Billing and Payment \(p. 4\)](#).

- 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 *AWS Billing and Cost Management User Guide*.
- 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 AWS 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 \(AWS Signature Version 4\)](#).
 - Website hosting:
 - You can configure your bucket to host a static website, but the website can be viewed publicly (by using an anonymous request) only if your Amazon AWS account is associated with an ICP license.
 - Support in Amazon S3 for root domain support relies on Amazon Route 53. Because Route 53 is not currently available in the Beijing and Ningxia Regions, information about root domain support and the corresponding walkthrough is not valid. For more information about root domain support and the walkthrough, see [Hosting a Static Website on Amazon S3](#) and [Example: Setting Up a Static Website Using a Custom Domain](#) in the Amazon Simple Storage Service Developer Guide.
 - 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.

- Any copy operation between the China Regions and AWS Regions outside of China is not supported.

- Cross-region replication (CRR) is not supported between the China Regions and AWS Regions outside of China.
- Amazon S3 Transfer Acceleration is not supported in the Beijing and Ningxia Regions.
- Support for BitTorrent in Amazon S3 is not available in the Beijing and Ningxia Regions.
- Access to Amazon S3 over Internet Protocol version 6 (IPv6) is not supported in the Beijing and Ningxia Regions.
- Bucket permissions check in the Amazon S3 console is not supported in the Beijing and Ningxia Regions.
- Server-side encryption with AWS KMS-managed encryption keys (SSE-KMS) is not supported in the Beijing and Ningxia Regions.
- Amazon Athena integration with Amazon S3 is not supported in the Beijing and Ningxia Regions.

User Guides

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

- [Amazon Simple Storage Service Getting Started Guide](#)
- [Amazon Simple Storage Service Console User Guide](#)
- [Amazon Simple Storage Service Developer Guide](#)
- [Amazon S3 API Reference](#)

Amazon Simple Queue Service

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 AWS SDK supports. Amazon SQS supports both standard and FIFO queues.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.

- For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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```

English-language URL syntax:

```
http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Amazon SQS is unique in the following way:

Server-side encryption (SSE) for Amazon SQS is currently not available in the China Regions.

User Guides

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

- [Amazon Simple Queue Service Developer Guide](#)
- [Amazon Simple Queue Service API Reference](#)

Amazon Simple Workflow Service

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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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- [Amazon Simple Workflow Service Developer Guide](#)
- [Amazon Simple Workflow Service API Reference](#)

AWS Step Functions

AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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```

User Guides

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

- [AWS Step Functions Developer Guide](#)
- [AWS Step Functions API Reference](#)

AWS Storage Gateway

AWS 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 AWS storage infrastructure. The service enables you to securely store data to the Amazon AWS cloud for scalable and cost-effective storage. AWS 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).

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.

- For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

Language Options

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- [AWS Storage Gateway User Guide](#)
- [AWS Storage Gateway API Reference](#)

AWS Support

AWS 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 AWS products and features successfully. For more information, see [AWS Support Plans](#).

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

The AWS Support API (available to Business and Enterprise-level Support customers) provides automated access to the functions of the [AWS Support Center](#).

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classic platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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English-language URL syntax:

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http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of AWS Support is unique in the following way:

- API access to AWS Trusted Advisor data via the AWS Support API is not supported.

User Guides

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- [AWS Support User Guide](#)
- [AWS Support API Reference](#)

AWS Systems Manager

AWS Systems Manager (formerly Amazon EC2 Systems Manager) is a unified interface that allows you to easily centralize operational data and automate tasks across your AWS 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.

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
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- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

- The EC2-Classical platform is not supported.
- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

The AWS documentation might show code examples for endpoints and ARNs that are not specific for the Beijing and Ningxia Regions. When using examples, verify you are using the correct endpoints and ARNs for your Region.

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English-language URL syntax:

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http://docs.amazonaws.cn/en_us/aws/latest/userguide/introduction.html
```

Feature Availability and Implementation Differences

The Amazon AWS implementation of Systems Manager is unique in the following ways:

- **Systems Manager Automation** — The `aws:copyImage` action is not supported.
- **Systems Manager Parameter Store secure string parameters** are not supported.
- To download the [Session Manager plugin](#) for Systems Manager, for use on your local machine, use the following URLs:
 - Windows: <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 32-bit: https://s3.cn-north-1.amazonaws.com.cn/session-manager-downloads/plugin/latest/ubuntu_32bit/session-manager-plugin.deb
 - Ubuntu 64-bit: https://s3.cn-north-1.amazonaws.com.cn/session-manager-downloads/plugin/latest/ubuntu_64bit/session-manager-plugin.deb
- The following AWS Systems Manager Automation actions for invoking APIs from other AWS services are not supported:
 - `aws:executeAwsApi`
 - `aws:waitForAwsResourceProperty`
 - `aws:assertAwsResourceProperty`
- **AWS Systems Manager Distributor**—Systems Manager Distributor is not supported.
- **Systems Manager Automation**—Concurrently executing Automations in multiple AWS Regions and accounts is not supported.

User Guides

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

- [AWS Systems Manager User Guide](#)
- [AWS Systems Manager API Reference](#)

Command Line Interface (CLI)

To interact with Amazon Web Services from the command line, you can use the [AWS Command Line Tools \(p. 81\)](#). For some services, a service-specific command line interface (CLI) is also available.

- [Systems Manager AWS CLI Reference](#)

Amazon Virtual Private Cloud

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

Please note the following Amazon AWS implementation particulars, which are potentially relevant to all services in the Beijing and Ningxia Regions.

- To use services in the Beijing and Ningxia Regions, you need an account and credentials specific to the Beijing and Ningxia Regions. Accounts and credentials for other AWS Regions will not work for services operating in the Beijing and Ningxia Regions. Likewise, accounts and credentials for the Beijing and Ningxia Regions will not work for other AWS Regions.
- There are two Availability Zones in the Beijing Region.
- There are three Availability Zones in the Ningxia Region.
- In AWS 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.
- The domain for both the Beijing and Ningxia Regions is `www.amazonaws.cn`.
- The endpoints for services in the China (Beijing) Region and the China (Ningxia) Region are different from other global endpoints.
 - The endpoint domain for both the Beijing and Ningxia Regions is `amazonaws.com.cn`.
 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

- In the China Regions, the Amazon Resource Name (ARN) syntax includes a `cn`.

For example: `arn:aws-cn:iam::123456789012:user/division_abc/subdivision_xyz/Bob`.

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- AWS Marketplace is not supported.
- The free usage tier is not available in the China Regions.

Note

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```

Feature Availability and Implementation Differences

- No VPN—In the Beijing and Ningxia Regions, you can't connect your VPC to your own network using a VPN connection.
- IPv6 is not supported.
- Inter-region VPC peering connections are not supported.

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- [Amazon VPC Getting Started Guide](#)
- [Amazon VPC User Guide](#)
- [Amazon VPC Network Administrator Guide](#)
- [Amazon VPC API Reference](#)

Command Line Interface (CLI)

To interact with Amazon Web Services from the command line, you can use the [AWS Command Line Tools \(p. 81\)](#). For some services, a service-specific command line interface (CLI) is also available.

- [Download the Amazon EC2 API Tools.](#)

Services Unsupported in Amazon AWS

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](#).

AWS Developer Tools

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

Important

Currently, the AWS developer tools are available only in English.

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 - For an endpoint in the China (Beijing) Region, the Region value should be `cn-north-1`.
 - For an endpoint in the China (Ningxia) Region, the Region value should be `cn-northwest-1`.
 - For example, the endpoint for Elastic Load Balancing in the Beijing Region is `elasticloadbalancing.cn-north-1.amazonaws.com.cn`.

Endpoint syntax varies from service to service. For more information, see [China \(Beijing\)](#), [China \(Ningxia\)](#), and the service-specific documentation.

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Topics

- [AWS SDKs \(p. 81\)](#)
- [AWS Command Line Tools \(p. 81\)](#)
- [IDE Toolkits \(p. 81\)](#)

AWS SDKs

The AWS SDKs make it easy to work with AWS 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 AWS SDKs, go to [Tools for Amazon Web Services](#).

AWS Command Line Tools

Amazon Web Services (AWS) offers the AWS Command Line Interface (CLI), a single tool for controlling and managing multiple AWS services. For those who script in the Windows PowerShell environment, AWS also offers the AWS Tools for Windows PowerShell.

To download the AWS CLI or the PowerShell tools, go to [Tools for Amazon Web Services](#).

Before the introduction of the AWS 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 \(p. 6\)](#).

IDE Toolkits

The AWS Toolkits provide specialized cloud tools integrated into your development environment. The AWS Toolkit for Eclipse is an open source plug-in for the Eclipse Java IDE that makes it easier to develop, debug, and deploy Java applications using Amazon Web Services. The AWS Toolkit for Visual Studio is an extension for Microsoft Visual Studio that helps you build, debug, and deploy .NET applications using AWS.

To download the IDE Toolkits, go to [Tools for Amazon Web Services](#).

Amazon AWS Support and Other Resources

Amazon AWS offers a variety of support options, including one-on-one troubleshooting, AWS Trusted Advisor, a discussion forum, and the Service Health Dashboard.

Support Service	Description
AWS Support	AWS 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 AWS.
AWS Trusted Advisor	AWS Trusted Advisor helps you provision your resources by following best practices. Trusted Advisor inspects your AWS environment and finds opportunities to save money, improve system performance and reliability, or help close security gaps.
AWS Forums	The Amazon AWS Discussion Forums are a place to post questions and feedback about Amazon AWS. You can use the RSS feeds and e-mail watches to stay in tune with topics that interest you.
Service Health Dashboard	Amazon AWS features a Service Health Dashboard (SHD) that provides access to current status and historical data about every Amazon AWS 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.

AWS Support API

The AWS Support API provides access to some of the services that underlie the features of the AWS Support Center. In the China (Beijing) Region, you can use the following endpoint to access the AWS Support API:

- <https://support.cn-north-1.amazonaws.com.cn>

In the China (Ningxia) Region, you can use the following endpoint to access the AWS Support API:

- <https://support.cn-northwest-1.amazonaws.com.cn>

For more information, see [AWS Support \(p. 74\)](#).

Document History

The following table describes the document history for *Getting Started with Amazon AWS*.

- **Latest documentation update:** December 11, 2017

Change	Description	Date Changed
Amazon AWS	Amazon AWS is now available in the Ningxia Region. This guide has been updated to document differences between the Amazon AWS services as currently implemented and described in other product guides and the Ningxia Region.	December 11, 2017
AWS Lambda	AWS Lambda is now available in the Beijing Region.	November 13, 2017
API Gateway	API Gateway is now available in the Beijing Region.	November 13, 2017
Amazon Cognito	Amazon Cognito is now available in the Beijing Region.	November 8, 2017
AWS IoT	AWS IoT is now available in the Beijing Region.	July 12, 2017
Amazon ECS	Amazon ECS is now available in the Beijing Region.	July 6, 2017
Amazon ECR	Amazon ECR is now available in the Beijing Region.	July 6, 2017
CodeDeploy	CodeDeploy is now available in the Beijing Region.	March 29, 2017
AWS Config	AWS Config is now available in the Beijing Region.	October 24, 2016
Amazon Redshift	Amazon Redshift is now available in the Beijing Region.	March 17, 2016
Amazon Kinesis	Kinesis is now available in the Beijing Region.	July 22, 2015
AWS CloudTrail	CloudTrail is now available in the Beijing Region.	June 9, 2015
AWS Direct Connect	AWS Direct Connect is now available in the Beijing Region.	April 14, 2015
Initial publication	This is the first publication of <i>Getting Started with Amazon AWS</i> . This guide provides a general overview of Amazon AWS and document differences between the services available in this region and services available elsewhere.	April 10, 2014