

# Alibaba Cloud

## Key Management Service Quick Start

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# Document conventions

Style	Description	Example
 <b>Danger</b>	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
 <b>Warning</b>	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 <b>Notice</b>	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> If the weight is set to 0, the server no longer receives new requests.
 <b>Note</b>	A note indicates supplemental instructions, best practices, tips, and other content.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click <b>Settings</b> > <b>Network</b> > <b>Set network type</b> .
<b>Bold</b>	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
<code>Courier font</code>	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[ ] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

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# 1. Overview

You can use Key Management Service (KMS) to encrypt and protect sensitive data assets. This topic describes a series of operations that help you get started with KMS.

## Activate KMS



### Activate KMS

Use KMS to encrypt and protect sensitive data assets.

- [Activate KMS](#)

## Manage and use keys



### Create a CMK

Create a CMK in the KMS console.

- [Create a CMK](#)



### Use a key

Use a key to encrypt resources of cloud services to protect data security.

- [Encrypt resources of cloud services](#)
- [Sample code for data encryption](#)

## Manage and use secrets



### Create a secret

Create a secret in the KMS console.

- [Create a secret](#)



### Use a secret

Use a secret to store protected data and prevent the leak of sensitive information.

- [Sample code for Secrets Manager](#)

## 2. Activate KMS

Before you can use Key Management Service (KMS), you must activate it. This topic describes how to activate KMS.

### Prerequisites


An Alibaba Cloud account is created, and real-name verification is completed for the account. For more information, see [Account registration](#) and [Real-name verification](#).

### Activate KMS in the KMS console

1. Log on to the [KMS activation page](#).
2. Read and select **Key Management Service Terms of Service**.
3. Click **Activate Now**.  
After KMS is activated, you are charged based on your actual resource usage. For more information, see [Billing](#).

### Activate KMS by using the API

You can call the [OpenKmsService](#) operation to activate KMS.

 **Note** You can call the [DescribeAccountKmsStatus](#) operation to query the KMS status of the Alibaba cloud account.


## 3. Manage and use keys


### 3.1. Create a CMK

This topic describes how to create a customer master key (CMK) in the Key Management Service (KMS) console. CMKs are used to encrypt data.


#### Procedure

1. Log on to the [KMS console](#).
2. In the upper-left corner of the page, select the region where you want to create a CMK.
3. In the left-side navigation pane, click **Keys**.
4. Click **Create Key**.
5. In the **Create Key** dialog box, configure the parameters based on your business requirements.


Parameter	Description
KMS Instance	The KMS instance that you use. KMS instances can be deployed in the VPC of a tenant to allow access over private networks. For more information, see <a href="#">Overview</a> .
Key Spec	<p>The type of the CMK. Valid values:</p> <ul style="list-style-type: none"><li>◦ Symmetric:<ul style="list-style-type: none"><li>▪ Aliyun_AES_256</li><li>▪ Aliyun_SM4</li></ul></li><li>◦ Asymmetric:<ul style="list-style-type: none"><li>▪ RSA_2048</li><li>▪ RSA_3072</li><li>▪ EC_P256</li><li>▪ EC_P256K</li><li>▪ EC_SM2</li></ul></li></ul> <div> <b>Note</b> Aliyun_SM4 and EC_SM2 types are supported only for regions in mainland China where managed hardware security modules (HSMs) are used.</div>
Purpose	<p>The purpose of the CMK. Valid values:</p> <ul style="list-style-type: none"><li>◦ Encrypt/Decrypt: encrypts or decrypts data.</li><li>◦ Sign/Verify: generates or verifies a digital signature.</li></ul>
Alias Name	<p>The alias of the CMK, which helps identify the CMK. Aliases are optional to CMKs.</p> <p>For more information, see <a href="#">Overview</a>.</p>

Parameter	Description
Protection Level	<p>The protection level of the CMK. Valid values:</p> <ul style="list-style-type: none"> <li>Software: The CMK is protected by using a software module.</li> <li>Hsm: The CMK is managed in an HSM, which is dedicated to safeguard the CMK.</li> </ul>
Description	The description of the CMK.
Rotation Period	<p>The interval of automatic rotation. Valid values:</p> <ul style="list-style-type: none"> <li>30 Days</li> <li>90 Days</li> <li>180 Days</li> <li>365 Days</li> <li>Disable: Automatic rotation is disabled.</li> <li>Customize: You can customize an interval that ranges from 7 days to 730 days.</li> </ul> <p> <b>Note</b> You can specify this parameter only when you set the Key Spec parameter to Aliyun_AES_256 or Aliyun_SM4.</p>

6. Click **Advanced** and set the **Key Material Source** parameter.

 **Note** The Advanced option appears only when you set the Key Spec parameter to Aliyun\_AES\_256 or Aliyun\_SM4.

- Alibaba Cloud KMS: KMS generates key material.
- External: You must import key material from an external source. For more information, see [Import key material](#).

 **Note** If you select External, you must also select I understand the implications of using the external key materials key.

7. Click **OK**.

After the CMK is created, you can view its detailed information, such as the CMK ID, status, and protection level.

## 3.2. Use KMS to encrypt resources of cloud services

Key Management Service (KMS) is integrated with cloud services such as Elastic Compute Service (ECS), Object Storage Service (OSS), Container Service for Kubernetes (ACK), and ApsaraDB RDS. You can use KMS to encrypt the resources of these cloud services to ensure data security in the cloud.

### Encrypt ECS resources



You can use KMS to encrypt ECS resources such as system disks, data disks, and relevant images and snapshots.

The following example describes how to encrypt a data disk when you create an ECS instance. For more information about other methods to encrypt ECS resources, see [Use KMS to protect ECS workloads with a few clicks](#).

1. Log on to the [ECS console](#).
2. In the left-side navigation pane, choose **Instances & Images > Instances**.
3. In the top navigation bar, select the region in which you want to create an ECS instance.
4. On the **Instances** page, click **Create Instance**.
5. In the **Storage** section of the **Basic Configurations** step, perform the following operations to encrypt a data disk:
  - i. Click **Add Disk**.
  - ii. Configure specifications for the disk.
  - iii. Select **Disk Encryption** and select a key from the drop-down list.

You can select **Default Service CMK** to use the default service customer master key (CMK) or select a CMK that you created in KMS for encryption.

**Storage**

Disk specifications and performance

**System Disk**

Ultra Disk 40 GiB 2120 IOPS ☒ Release with Instance

[Click here](#) for guidelines on how to select an appropriate disk for your scenario.

☐ Disk Backup (**Recommended**)

You can periodically backup disks with an automatic snapshot policy to prevent risks such as viru

**Data Disk** You have selected 1 disks and can select 15 more.

Enhanced SSD (ESSD) 40 GiB 3800 IOPS Performance Level

☒ Disk Encryption Default Service CMK

☐ Disk Backup (**Recommended**) ?

+ Add Disk

6. Configure other parameters by following the on-screen instructions.

For more information, see [Create an instance by using the wizard](#).


## Encrypt OSS resources

After you upload objects to an OSS bucket, KMS automatically encrypts the objects.

### • Enable encryption when you create an OSS bucket

- i. Log on to the [OSS console](#).
- ii. In the **Bucket Management** section of the **Overview** page, click **Create Bucket**.
- iii. In the **Create Bucket** panel, set the **Encryption Method** parameter to **KMS**.
- iv. Configure the **Encryption Algorithm** parameter. Valid values:
  - AES256

#### ■ SM4

 **Note** KMS provides the SM4 algorithm by using Managed HSM. For more information, see [Overview](#).


- v. Configure the **CMK** parameter.  
You can select a CMK ID. OSS uses the specified CMK to generate different keys to encrypt different objects. The objects are automatically decrypted when they are downloaded by the users who have decryption permissions. Before you select a CMK ID, you must create a regular CMK or an external CMK in the same region as the bucket in the KMS console. For more information, see [Create a CMK](#).
- vi. Configure other parameters by following the on-screen instructions.  
For more information, see [Create buckets](#).

#### ● Encrypt data in an existing bucket

- i. Log on to the [OSS console](#).
- ii. In the left-side navigation pane, click **Buckets**.
- iii. Click the name of the bucket whose data you want to encrypt.
- iv. In the left-side navigation pane, choose **Basic Settings > Server-side Encryption**.
- v. In the **Server-side Encryption** section, click **Configure**.
  - a. Set the **Encryption Method** parameter to **KMS**.
  - b. Configure the **Encryption Algorithm** parameter. Valid values:
    - AES256
    - SM4

 **Note** KMS provides the SM4 algorithm by using Managed HSM. For more information, see [Overview](#).

- c. Configure the **CMK** parameter.  
You can select a CMK ID. OSS uses the specified CMK to generate different keys to encrypt different objects. The objects are automatically decrypted when they are downloaded by the users who have decryption permissions. Before you select a CMK ID, you must create a regular CMK or an external CMK in the same region as the bucket in the KMS console. For more information, see [Create a CMK](#).
- d. Click **Save**.

 **Notice** The modification of the default encryption method for a bucket do not affect the encryption configurations of the existing objects in the bucket.

## Encrypt ACK resources

Professional managed Kubernetes clusters in ACK allow you to use a CMK that you created in KMS to encrypt Kubernetes secrets.

1. Log on to the [ACK console](#).
2. In the left-side navigation pane, click **Clusters**.
3. In the upper-right corner of the **Clusters** page, click **Cluster Templates**.

4. In the **Select Cluster Template** dialog box, select **Professional Managed Kubernetes Cluster** and click **Create**.
5. On the **Managed Kubernetes** tab, find the **Secret Encryption** parameter, select **Select Key**, and then select a CMK ID from the drop-down list.
6. Configure other parameters by following the on-screen instructions.

For more information, see [Create a professional managed Kubernetes cluster](#).

## Encrypt ApsaraDB RDS resources

ApsaraDB RDS supports disk encryption and transparent data encryption (TDE). The following example describes how to encrypt a standard or enhanced SSD when you create an ApsaraDB RDS for MySQL instance.

1. Go to the [Basic Configurations](#) page in the ApsaraDB RDS console.
2. Set the **Storage Type** parameter to **Standard SSD** or **Enhanced SSD (Recommended)**. Then, select **Disk Encryption**.
3. Select a CMK ID from the **Key** drop-down list.

The screenshot shows the configuration interface for ApsaraDB RDS. Under the 'Storage Type' section, there are five buttons: 'Local SSD (Recommended)', 'Enhanced SSD (Recommended)', 'ESSD PL2 (Recommended)', 'ESSD PL3 (Recommended)', and 'Standard SSD'. The 'Standard SSD' button is selected. To the right of these buttons is a checkbox labeled 'Disk Encryption' which is checked. Below the storage type buttons is a link 'how to select a storage type.' and a red recommendation text: 'Recommendation: Local or enhanced SSDs offer higher I/O performance and stability.' Under the 'Key' section, there is a dropdown menu showing a CMK ID '0b131305-7328-4f01-b7fe-d1e5f91d' and a 'Create' link. Below the dropdown is the text 'To use a different custom key, Create'.

4. Configure other parameters by following the on-screen instructions.

For more information, see [Create an ApsaraDB RDS for MySQL instance](#).

## Encrypt resources of other cloud services

For information about how to encrypt resources of other cloud services, see [Alibaba Cloud services that can be integrated with KMS](#).

# 3.3. Sample code for data encryption

After you create a customer master key (CMK) of the Advanced Encryption Standard (AES) or SM4 type, you can use code of Key Management Service (KMS) SDKs to encrypt data. In the example provided in this topic, KMS SDK for Java is used to encrypt data.


## Preparations

1. Obtain the dependency declaration of KMS SDK for Java. For information about the required SDK version, see [SDK overview](#). Sample code:

```
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-core</artifactId>
  <version>4.5.2</version>
</dependency>
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-kms</artifactId>
  <version>2.14.0</version>
</dependency>
```

2. Obtain the endpoints to access KMS based on the region where you use KMS. For more information,

see [Request method](#).

 **Note** In this example, you can specify the region ID to access the public endpoint of KMS. For more information about how to access the Virtual Private Cloud (VPC) endpoint of KMS, see [Code samples of KMS SDK for Java](#).

## Encrypt data

Use the following code of KMS SDK for Java to encrypt data:

```
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.IAcsClient;
import com.aliyuncs.exceptions.ClientException;
import com.aliyuncs.exceptions.ServerException;
import com.aliyuncs.profile.DefaultProfile;
import com.google.gson.Gson;
import java.util.*;
import com.aliyuncs.kms.model.v20160120.*;
import com.aliyuncs.utils.Base64Helper;

public class Encrypt {
    public static void main(String[] args) {
        /*
         * 1. Specify the region where your CMK resides.
         * 2. Specify the AccessKey ID and AccessKey secret that are required to access KMS
         *
         */
        DefaultProfile profile = DefaultProfile.getProfile("cn-hangzhou", "<accessKeyId>",
"<accessSecret>");
        IAcsClient client = new DefaultAcsClient(profile);
        EncryptRequest request = new EncryptRequest();
        // Specify the CMK alias or CMK ID that is used to encrypt "Hello world".
        request.setKeyId("alias/Apollo/SalaryEncryptionKey");
        request.setPlaintext(Base64Helper.encode("Hello world", null));
        try {
            EncryptResponse response = client.getAcsResponse(request);
            System.out.println(new Gson().toJson(response));
        } catch (ServerException e) {
            e.printStackTrace();
        } catch (ClientException e) {
            System.out.println("ErrCode:" + e.getErrCode());
            System.out.println("ErrMsg:" + e.getErrMsg());
            System.out.println("RequestId:" + e.getRequestId());
        }
    }
}
```

For more information about the sample code, visit [alibabacloud-kms-demo](#).


## 4. Manage and use secrets

### 4.1. Create a secret

KMS allows you to manage secrets in a centralized manner. This topic describes how to create a secret in the Key Management Service (KMS) console.

#### Procedure

1. Log on to the [KMS console](#).
2. In the top navigation bar, select the region in which you want to create a secret.
3. In the left-side navigation pane, click **Secrets**.
4. Click **Create Secret**.
5. In the **Create Secret** dialog box, select a secret type, configure the parameters, and then click **Next**.
  - **Managed Credential for RDS**: Configure the Secret name, Select RDS Instance, Set Secret Value, and Secret Description parameters.
  - **Managed RAM secret**: Configure the Select RAM user, Set secret value, and Secret Description parameters.
  - **Managed ECS secret**: Configure the Secret name, Managed instance, Managed User, Initial secret value, and Secret Description parameters.
  - **Other secrets**: Configure the Secret name, Set Secret Value, Secret InitVersion, Secret Description, and Encryption Master Key parameters.
6. In the **Create Secret** dialog box, select **Turn on automatic rotation**, configure the **Rotation Period** parameter, and then click **Next**.

 **Note** If you set the Secret Type parameter to Other secrets, you cannot enable automatic rotation in the KMS console. For more information about how to enable automatic rotation for generic secrets, see [Rotate generic secrets](#).

7. In the **Create Secret** dialog box, confirm the configuration of the secret and click **OK**.  
After you create the secret, you can view the details, such as the name, type, and creation time of the secret.

#### Related information

- [Overview](#)
- [Overview](#)
- [Overview](#)
- [Overview](#)

### 4.2. Sample code for Secrets Manager


This topic provides sample code of KMS SDK for Java to describe how to use a secret created in Secrets Manager. This topic uses the Java SDK as an example to describe how to use a secret.

#### Preparations

1. Obtain the dependency declaration of KMS SDK for Java. For information about the required SDK version, see [SDK overview](#). Example:

```
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-core</artifactId>
  <version>4.5.2</version>
</dependency>
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-kms</artifactId>
  <version>2.12.0</version>
</dependency>
```

2. Obtain the endpoints to access KMS based on the region where you use KMS. For more information, see [Request method](#).

 **Note** In the example, you can specify the region ID to access the public endpoint of KMS. For more information about how to access the VPC endpoint of KMS, see [Code samples of KMS SDK for Java](#).

## Use secrets

You can create a secret to store protected data. For more information, see [Overview](#).

```
package com.aliyun.kms.secretmanager.samples;
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.exceptions.ClientException;
import com.aliyuncs.kms.model.v20160120.*;
import com.aliyuncs.profile.DefaultProfile;
import com.aliyuncs.profile.IClientProfile;
import com.aliyuncs.http.HttpClientConfig;
public class FastUsage {
    /*
     * Before you access Secrets Manager, assign a permission policy to your access account in the RAM console. For example, assign the AliyunKMSFullAccess policy, which grants management permissions on KMS, to the account. You can also assign system policies or custom policies that grant required permissions on API operations.
     */
    public static DefaultAcsClient getkmsClient() {
        /*
         * 1. Specify the region where Secrets Manager resides.
         * 2. Specify the AccessKey ID and AccessKey secret that are required to access KMS.
         */
        IClientProfile profile = DefaultProfile.getProfile("cn-hangzhou", "$your_access_key", "$your_access_secret");
        HttpClientConfig clientConfig = HttpClientConfig.getDefault();
        profile.setHttpClientConfig(clientConfig);
        return new DefaultAcsClient(profile);
    }
    public static void CreateSecretSample(String secret_name, String secret_data, String version_id) throws ClientException {
        DefaultAcsClient acsClient = getkmsClient();
        CreateSecretRequest request = new CreateSecretRequest();
        request.setRegionId("cn-hangzhou");
        request.setSecretName(secret_name);
        request.setSecretData(secret_data);
        request.setVersionId(version_id);
        CreateSecretResponse response = acsClient.getAcsResponse(request);
    }
}
```

```

        CreateSecretRequest req = new CreateSecretRequest();
        req.setSecretName(secret_name);
        req.setSecretData(secret_data);
        req.setVersionId(version_id);
        req.setSecretDataType("text");
        req.setDescription("my app passwd");
        req.setEncryptionKeyId(""); //You can use a symmetric CMK or leave this p
arameter empty. When this parameter is left empty, you can use the managed key that is crea
ted in Secrets Manager.
        req.setTags("");
        CreateSecretResponse rsp = acsClient.getAcsResponse(req);
        System.out.printf("CreateSecret arn: %s; secret_name: %s; versionid: %s; requestid:
%s \n",rsp.getArn(),rsp.getSecretName(),rsp.getVersionId(),rsp.getRequestId());
    }

    public static void GetSecretValueSample(String secret_name,String version_stage) throws
ClientException {
        DefaultAcsClient acsClient = getkmsClient();
        GetSecretValueRequest req = new GetSecretValueRequest();
        req.setSecretName(secret_name);
        req.setVersionStage(version_stage);
        GetSecretValueResponse rsp = acsClient.getAcsResponse(req);
        System.out.printf("GetSecretValue data: %s \n",rsp.getSecretData());
    }

    public static void PutSecretValueSample(String secret_name,String secret_data,String ve
rsion_id,String version_stages) throws ClientException {
        DefaultAcsClient acsClient = getkmsClient();
        PutSecretValueRequest req = new PutSecretValueRequest();
        req.setSecretName(secret_name);
        req.setSecretData(secret_data);
        req.setSecretDataType("text");
        req.setVersionId(version_id);
        req.setVersionStages(version_stages); //The secret value of the version that is ma
rked with a specified stage label in the JSON format.
        PutSecretValueResponse rsp = acsClient.getAcsResponse(req);
        System.out.printf("PutSecretValue versionid: %s; now stages: %s \n",rsp.getVersionI
d(),rsp.getVersionStages());
    }

    public static void DeleteScretSample() throws ClientException {
        DefaultAcsClient acsClient = getkmsClient();
        DeleteSecretRequest req = new DeleteSecretRequest();
        req.setSecretName("myapp_secret");
        req.setForceDeleteWithoutRecovery("true");
        DeleteSecretResponse rsp = acsClient.getAcsResponse(req);
        System.out.printf("DeleteSecret force delete secret:%s \n",rsp.getSecretName());
    }

    public static void main(String[] args ){
        try {
            /*
             * Create a secret and specify the initial version and the secret value that yo
u want to encrypt. The initial version is marked with ACSCurrent.
             */
            FastUsage.CreateSecretSample("myapp_secret","mysqlpasswdv1","v1");
            /*
             * Obtain the secret value. If you do not specify a version number or stage la
bel. Secrets Manager returns the secret value of the version marked with ACSCurrent.

```

```

    //, Secret Manager returns the secret value of the version marked with ACSCurrent.
    * */
    FastUsage.GetSecretValueSample("myapp_secret", "");
    /*
    * Store the secret value of a new version in the secret and specify VersionStages for this version. If VersionStages is not specified, the version is marked with ACSCurrent.
    * */
    FastUsage.PutSecretValueSample("myapp_secret", "mysqlpasswdv2", "v2", "[\\\"ACSCurrent\\\", \\\"MyUserstage\\\"]");
    /*
    * Obtain the secret value again. By default, the secret value of the new version is obtained.
    * */
    FastUsage.GetSecretValueSample("myapp_secret", "");
    FastUsage.PutSecretValueSample("myapp_secret", "mysqlpasswdv3", "v3", "");
    /*
    * Obtain the secret value. By default, the secret value of the new version is obtained.
    * */
    FastUsage.GetSecretValueSample("myapp_secret", "");
    /*
    * Obtain the secret value. After VersionId or VersionStages is specified, you can obtain the secret value of an earlier version.
    * */
    FastUsage.GetSecretValueSample("myapp_secret", "MyUserstage");
    FastUsage.DeleteSecretSample();
} catch (ClientException e) {
    e.printStackTrace();
}
}
}

```

For more sample code, see [KMS code development sample library](#).