

AWS KEY MANAGEMENT SERVICE

1 Login to AWS Console

- Go to <https://aws.amazon.com/console/> and sign in.

2 Open AWS KMS

- Search for **KMS** or **Key Management Service** in the AWS Console and open it.

3 Create a New Key

- Click **Customer managed keys** in the left menu.
- Click **Create key**.

4 Select Key Type

- Choose between:
 - **Symmetric key** (default; for encryption and decryption).
 - **Asymmetric key** (for signing or encryption separately).

5 Define Key Usage

- Choose:
 - **Encrypt and decrypt** (most common).
 - **Sign and verify** (if using asymmetric keys).

6 Set Alias and Description

- Provide:
 - **Alias** (friendly name for your key).
 - **Description** (optional).

7 Configure Key Administrative Permissions

- Select IAM users or roles who can **manage the key** (but not use it).

8 Configure Key Usage Permissions

- Select IAM users, roles, or AWS services that can **use the key** for encryption/decryption.

9 Review and Create

- Review your key configuration.
- Click **Finish** to create the key.

10 Use Your KMS Key

- Your key is now available for:
 - **Encrypting data** in services like S3, EBS, Lambda, Secrets Manager.
 - Custom encryption using AWS SDK or CLI.

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Search

[Alt+S]

S3

EC2

Route 53

IAM

EFS

VPC

United States (N. Virginia)

Account ID: 2111-2544-8409

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Key Management Service (KMS)

AWS managed keys

Customer-managed keys

Custom key stores

AWS CloudHSM key stores

External key stores

Security, Identity & Compliance

AWS Key Management Service

Easily create keys and control encryption across AWS and beyond

AWS Key Management Service (KMS) is a managed service that makes it easy for you to create and manage keys and control the use of encryption across a wide range of AWS services. KMS is a secure and resilient service that uses FIPS 140-3 validated hardware security modules to isolate and protect your keys.

Get started now

You can create a key by clicking the button below.

Create a key

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KMS

Customer-managed keys

Create key

Step 1

Configure key

Step 2

Add labels

Step 3 - optional

Define key administrative permissions

Step 4 - optional

Define key usage permissions

Step 5 - optional

Edit key policy

Step 6

Review

Configure key

Key type

Help me choose

☒ Symmetric

A single key used for encrypting and decrypting data or generating and verifying HMAC codes.

☐ Asymmetric

A public and private key pair used for encrypting and decrypting data, signing and verifying messages, or deriving shared secrets

Key usage

Help me choose

☒ Encrypt and decrypt

Use the key only to encrypt and decrypt data.

☐ Generate and verify MAC

Use the key only to generate and verify hash-based message authentication codes (HMAC).

Advanced options

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KMS

Customer-managed keys

Create key

Step 3 - optional

Define key administrative permissions

Step 4 - optional

Define key usage permissions

Step 5 - optional

Edit key policy

Step 6

Review

Alias

KEYPOINT

Description - optional

You can change the description at any time.

Description

Description of the key

Tags - optional

You can use tags to categorise and identify your KMS keys and help you track your AWS costs. When you add tags to AWS resources, AWS generates a cost allocation report for each tag. [Learn more](#)

This key has no tags.

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root

KMS

Customer managed keys

Create key

Step 4 - optional

Define key usage permissions

Step 5 - optional

Edit key policy

Step 6

Review

ability to update the user statements in the key policy. [Learn more](#)

Search Key users

	Name	Path	Type
<input type="checkbox"/>	apache-monitor	/	Role
<input type="checkbox"/>	AWSServiceRoleForAPIGateway	/aws-service-role/ops.apigateway.amazo...	Role
<input type="checkbox"/>	AWSServiceRoleForAutoScaling	/aws-service-role/autoscaling.amazona...	Role
<input type="checkbox"/>	AWSServiceRoleForEC2Spot	/aws-service-role/spot.amazonaws.com/	Role
<input type="checkbox"/>	AWSServiceRoleForElasticLoadBalancing	/aws-service-role/elasticloadbalancing.a...	Role
<input type="checkbox"/>	AWSServiceRoleForRDS	/aws-service-role/rds.amazonaws.com/	Role
<input type="checkbox"/>	AWSServiceRoleForSupport	/aws-service-role/support.amazonaws.c...	Role
<input type="checkbox"/>	AWSServiceRoleForTrustedAdvisor	/aws-service-role/trustedadvisor.amazo...	Role
<input type="checkbox"/>	CloudTrail_CloudWatchLogs_Role	/service-role/	Role
<input checked="" type="checkbox"/>	lamda_service-role-ihmvlvuv	/service-role/	Role

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Customer-managed keys

Create key

Step 3 - optional

Define key administrative permissions

Step 4 - optional

Define key usage permissions

Step 5 - optional

Edit key policy

Step 6

Review

Review the key policy statements for this key. To manually update this policy, select **Edit**. Modifying the statement identifiers (Sid) assigned in the previous steps might affect how the console displays updates to that statement.

```
2  "Id": "key-consolepolicy-3",
3  "Version": "2012-10-17",
4  "Statement": [
5  {
6    "Sid": "Enable IAM User Permissions",
7    "Effect": "Allow",
8    "Principal": {
9      "AWS": "arn:aws:iam::211125448409:root"
10   },
11   "Action": "kms:*",
12   "Resource": "*"
13  },
14  {
15   "Sid": "Allow access for Key Administrators",
16   "Effect": "Allow",
17   "Principal": {
18     "AWS": "arn:aws:iam::211125448409:role/service-role/helloworld-role-qldh73hy"
19   },
20   "Action": [
```

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Customer-managed keys

Key Management Service (KMS)

AWS managed keys

Customer-managed keys

Custom key stores

AWS CloudHSM key stores

External key stores

Success

Your AWS KMS key was created with alias **KEYPOINT** and key ID **f7e3cef6-2be9-42a3-aefe-cd6077729759**.

View key

Customer-managed keys (1)

Filter keys by properties or tags

Aliases

Key ID

Status

Key type

Key spec

Key usage

☐

[KEYPOINT](#)

[f7e3cef6-2be9-4...](#)

Enabled

Symmetric

SYMMETRIC_DEF...

Encrypt and decr...

- ▼ Custom key stores
 - AWS CloudHSM key stores
 - External key stores

The following IAM users and roles can use this key for cryptographic operations. They can also allow AWS services that are integrated with KMS to use the key on their behalf. [Learn more](#)

< 1 >

<input checked="" type="checkbox"/>	Name	Path	Type
<input checked="" type="checkbox"/>	hellowrld-role-qldh73hy	/service-role	Role

[Add other AWS accounts](#)