

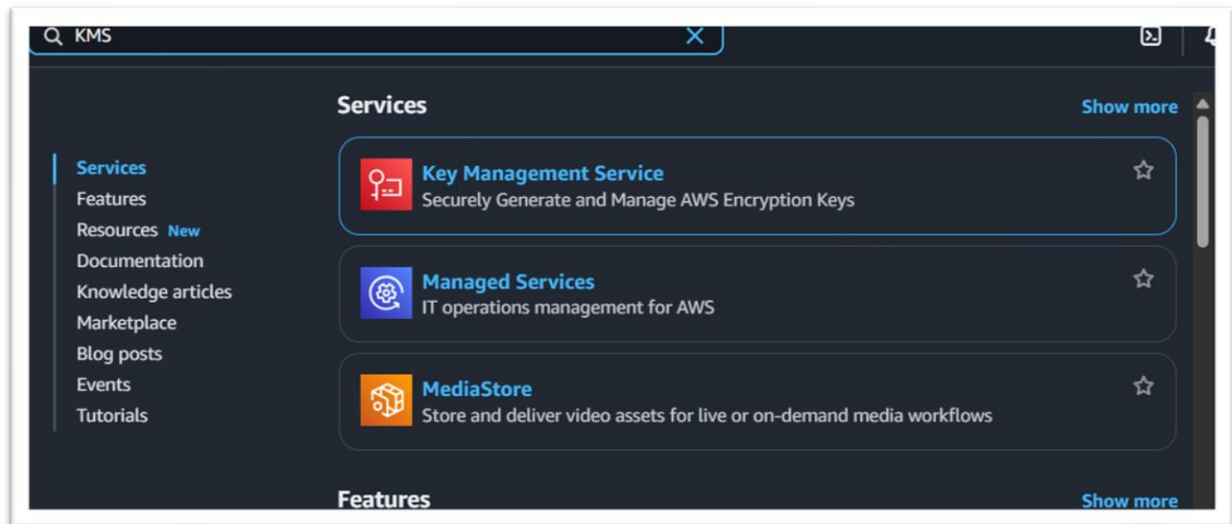


Day 22

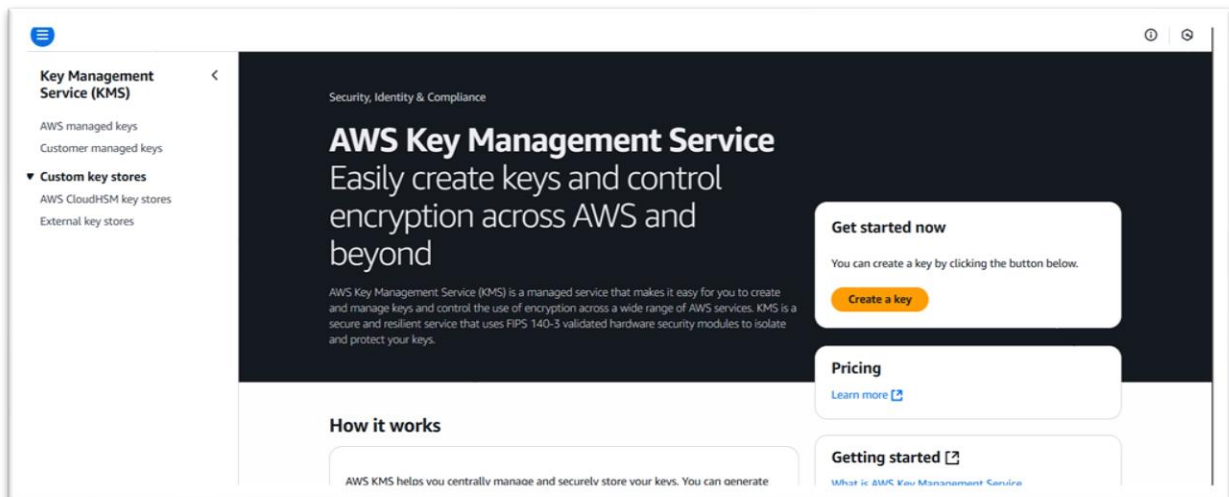
“CLOUD SECURITY”

Working with KMS:

Where can we find this KMS?



Following screen will appear:



Click on the “Create a key” button: following screen will appear.

The screenshot shows the AWS KMS 'Create key' console. At the top, there's a blue banner with an information icon and text: 'Introducing the new Create key experience. We've improved the create key experience with an enhanced policy editor. [Let us know what you think](#) or you can [use the old experience](#).' Below this is a progress bar with six steps: 1. Configure key (selected), 2. Add labels, 3 - optional. Define key administrative permissions, 4 - optional. Define key usage permissions, 5 - optional. Edit key policy, and 6. Review. The main content area is titled 'Configure key'. It has two sections: 'Key type' and 'Key usage'. In 'Key type', 'Symmetric' is selected with a radio button, and its description is 'A single key used for encrypting and decrypting data or generating and verifying HMAC codes'. 'Asymmetric' is unselected, with description 'A public and private key pair used for encrypting and decrypting data, signing and verifying messages, or deriving shared secrets'. In 'Key usage', 'Encrypt and decrypt' is selected, with description 'Use the key only to encrypt and decrypt data.'. 'Generate and verify MAC' is unselected, with description 'Use the key only to generate and verify hash-based message authentication codes (HMAC)'. At the bottom, there's a button labeled 'Advanced options'.

Select the suitable option, and click on the next button, following screen will appear, fill it:

The screenshot shows the AWS KMS 'Create key' console at the 'Add labels' step. The progress bar now shows 'Add labels' as the active step. The main content area is titled 'Add labels'. It has two sections: 'Alias' and 'Description - optional'. The 'Alias' section has a text input field with the placeholder 'Display name for the key'. The 'Description - optional' section has a text input field with the placeholder 'Description of the key'.

Click next, following screen will appear: select the admin.

The screenshot shows the AWS KMS 'Create key' console at the 'Define key administrative permissions - optional' step. The progress bar now shows 'Define key administrative permissions' as the active step. The main content area is titled 'Define key administrative permissions - optional'. It has a section 'Key administrators (10)' with a search bar and a list of administrators. The list has columns for 'Name', 'Path', and 'Type'. The administrators listed are: AmazonFraudDetector-DataAccessRole-1737697..., AWSDataLifecycleManagerDefaultRole, AWSServiceRoleForAutoScaling, AWSServiceRoleForElasticLoadBalancing, AWSServiceRoleForGlobalAccelerator, AWSServiceRoleForLexV2Bots_F5MWNV3VAL7, and AWSServiceRoleForRDS.

Name	Path	Type
AmazonFraudDetector-DataAccessRole-1737697...	/service-role/	Role
AWSDataLifecycleManagerDefaultRole	/service-role/	Role
AWSServiceRoleForAutoScaling	/aws-service-role/autoscaling.amazonaws.com/	Role
AWSServiceRoleForElasticLoadBalancing	/aws-service-role/elasticloadbalancing.amazona...	Role
AWSServiceRoleForGlobalAccelerator	/aws-service-role/globalaccelerator.amazonaws.c...	Role
AWSServiceRoleForLexV2Bots_F5MWNV3VAL7	/aws-service-role/lexv2.amazonaws.com/	Role
AWSServiceRoleForRDS	/aws-service-role/rds.amazonaws.com/	Role

When you click Next, following screen will appear:

The screenshot shows the 'Define key usage permissions - optional' step in the AWS KMS console. On the left, a navigation pane lists steps: Step 1: Configure key, Step 2: Add labels, Step 3 - optional: Define key administrative permissions, Step 4 - optional: Define key usage permissions (selected), Step 5 - optional: Edit key policy, Step 6: Review. The main content area is titled 'Define key usage permissions - optional' and contains a section 'Key users (10)'. It instructs the user to select IAM users and roles authorized to use the key. Below this is a search bar and a table of key users.

<input type="checkbox"/>	Name	Path	Type
<input type="checkbox"/>	AmazonFraudDetector-DataAccessRole-1737697...	/service-role/	Role
<input type="checkbox"/>	AWSDataLifecycleManagerDefaultRole	/service-role/	Role
<input type="checkbox"/>	AWSServiceRoleForAutoScaling	/aws-service-role/autoscaling.amazonaws.com/	Role
<input type="checkbox"/>	AWSServiceRoleForElasticLoadBalancing	/aws-service-role/elasticloadbalancing.amazona...	Role
<input type="checkbox"/>	AWSServiceRoleForGlobalAccelerator	/aws-service-role/globalaccelerator.amazonaws.c...	Role
<input type="checkbox"/>	AWSServiceRoleForLexV2Bots_F5MWNV3VAL7	/aws-service-role/lexv2.amazonaws.com/	Role
<input type="checkbox"/>	AWSServiceRoleForRDS	/aws-service-role/rds.amazonaws.com/	Role
<input type="checkbox"/>	AWSServiceRoleForSMSVoice	/aws-service-role/sms-voice.amazonaws.com/	Role

When you click next, it will ask you to review the policy:

The screenshot shows the 'Edit key policy - optional' step in the AWS KMS console. The navigation pane on the left is the same as the previous step, with 'Edit key policy' now selected. The main content area is titled 'Edit key policy - optional' and contains a section 'Key policy'. It instructs the user to review the key policy statements and provides 'Preview' and 'Edit' buttons. Below this is a code editor showing a JSON policy statement.

```
1 {
2   "Id": "key-consolepolicy-3",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Enable IAM User Permissions",
7       "Effect": "Allow",
8       "Principal": {
```

When you click on the Finish button, following confirmation will show:

The screenshot shows the 'Success' confirmation screen in the AWS KMS console. A green banner at the top states: 'Success Your AWS KMS key was created with alias 2ndkms and key ID b49993a7-59a7-4740-9909-961ae625f6d8.' Below this, the 'Customer managed keys (1)' section is shown. It includes a search bar and a table of keys.

<input type="checkbox"/>	Aliases	Key ID	Status	Key type	Key spec	Key usage
<input type="checkbox"/>	2ndkms	b49993a7-59a7-474...	Enabled	Symmetric	SYMMETRIC_DEFAULT	Encrypt and decrypt

--The End--