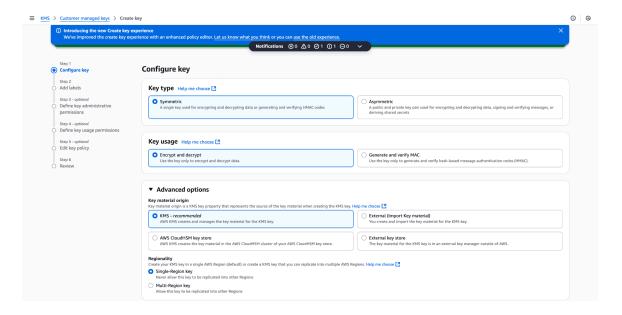
X Steps to Create a Customer Managed KMS Key

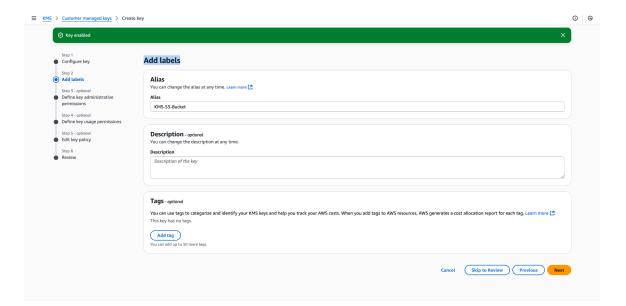
1. Create a Symmetric Key

- 1. Go to AWS KMS → Customer Managed Keys.
- 2. Select Create Key → Symmetric.
- 3. Keep defaults \rightarrow proceed.



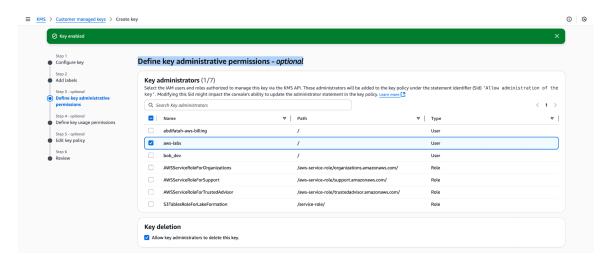
2. Add Labels

- Assign an alias (friendly name).
- Optionally add tags.
- Leave defaults and continue.



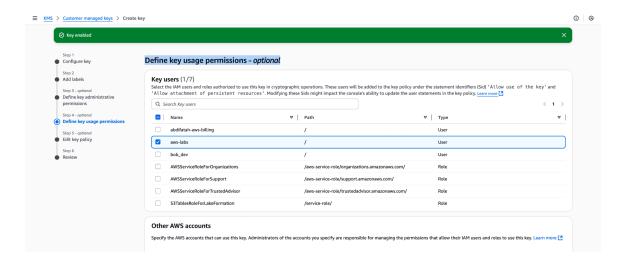
3. Define Administrative Permissions (Optional)

- Choose IAM users/roles who can manage the key.
- Optionally allow administrators to delete the key.

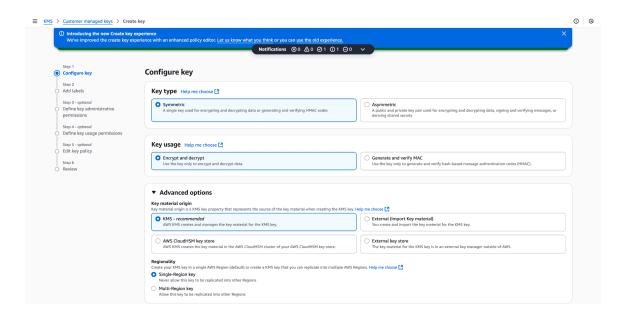


4. Define Usage Permissions (Optional)

- Assign IAM users/roles who can use the key for encryption. Example 9 (was-labs)
- Continue with defaults → review → finish.



"Next, we will create a second KMS key, which will be different from the first Symmetric key. Below are the step-by-step instructions to create it."

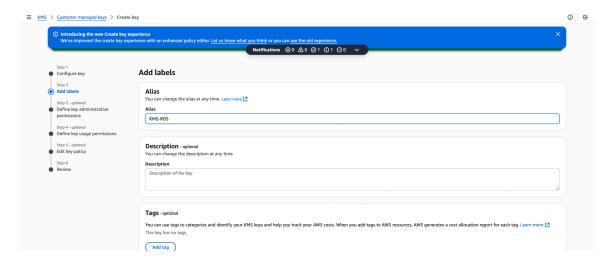


Add Labels:

- Assign an alias (e.g., KMS-RDS) to identify the key.
- Leave the remaining options at their default values.
- Optionally, add tags for better organization before moving on to the *Define Key* step.

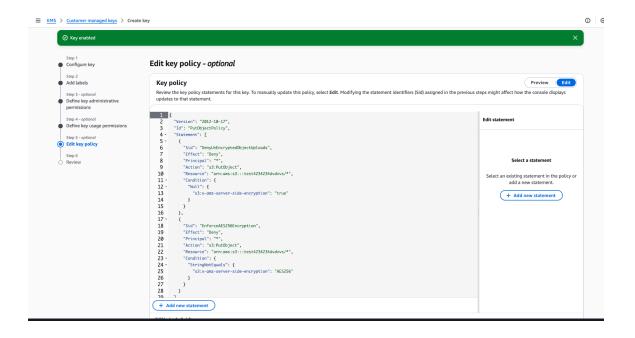
Define Key Administrative Permissions (Optional):

- Keep the default settings (do not select any users or roles).
- Continue to the next step until you reach the **Key Policy Editor**.
- Once there, click **Edit** and add the custom policy provided.



Edit Key Policy (Optional):

- In this step, you can customize the key policy.
- Click **Edit** to modify the default policy and add your required statements.



```
"Edit Policy:"
"Version": "2012-10-17",
"Id": "PutObjectPolicy",
"Statement": [
  "Sid": "DenyUnEncryptedObjectUploads",
  "Effect": "Deny",
  "Principal": "*",
  "Action": "s3:PutObject",
  "Resource": "arn:aws:s3:::test4234234dvdvvs/*",
  "Condition": {
   "Null": {
    "s3:x-amz-server-side-encryption": "true"
   }
  }
  "Sid": "EnforceAES256Encryption",
  "Effect": "Deny",
  "Principal": "*",
  "Action": "s3:PutObject",
  "Resource": "arn:aws:s3:::test4234234dvdvvs/*",
  "Condition": {
   "StringNotEquals": {
    "s3:x-amz-server-side-encryption": "AES256"
   }
  }
]
```

} Customer managed keys for both Encrypt and Decrypt

