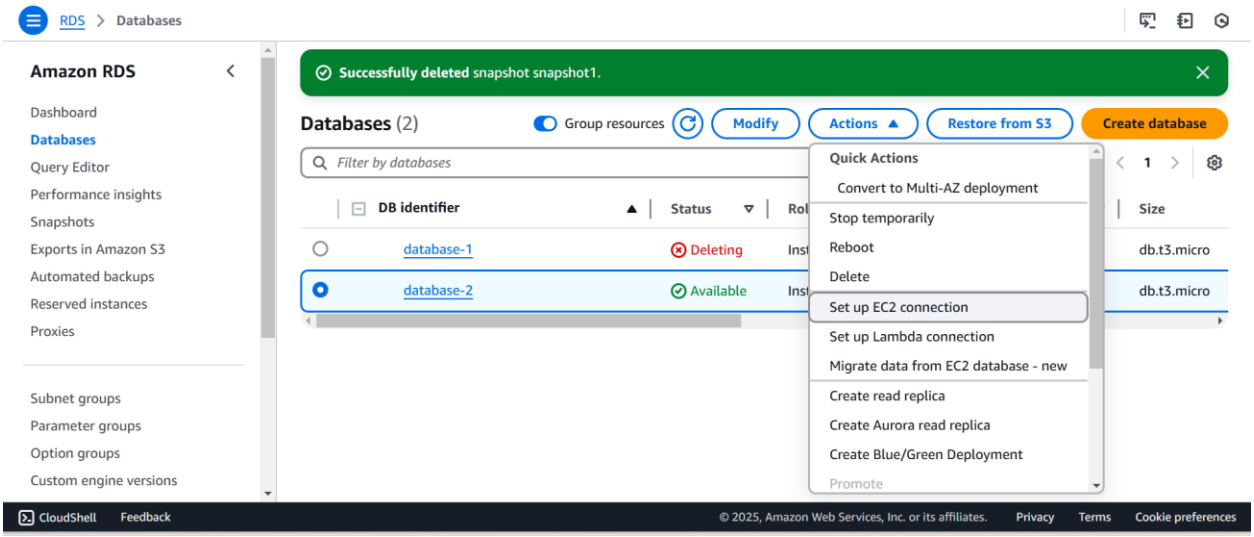
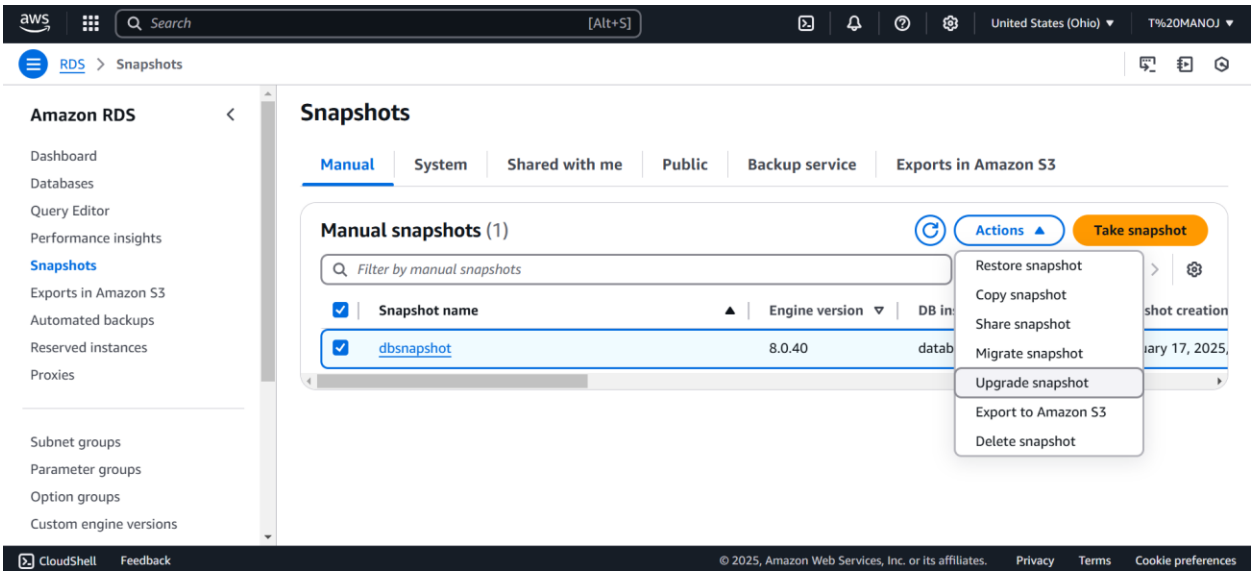
1. Create a Database in Amazon RDS

- Log into the AWS Management Console and navigate to RDS.
- Click Create Database and select the required database engine (e.g., MySQL, PostgreSQL).
- Configure instance settings such as instance type, storage, and security group.
- Set up database credentials (username and password).
- Click Create Database and wait for it to be available.



2. Create a Snapshot of the Database

- .. In the RDS console, select the created database instance.
- .. Click Actions > Take Snapshot.
- .. Enter a unique name for the snapshot and confirm creation.
- .. Wait for the snapshot status to change to Available.


Search
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RDS > Snapshots
Amazon RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Snapshots
Manual
System
Shared with me
Public
Backup service
Exports in Amazon S3
Manual snapshots (1)
Actions
Take snapshot
Filter by manual snapshots
Snapshot name
Engine version
dbsnapshot
8.0.40
Restore snapshot
Copy snapshot
Share snapshot
Migrate snapshot
Upgrade snapshot
Export to Amazon S3
Delete snapshot
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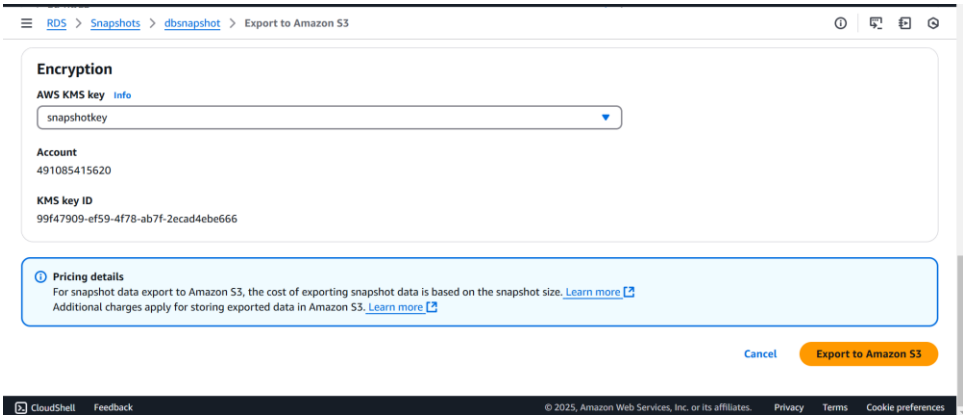
RDS > Snapshots > dbsnapshot > Export to Amazon S3
Encryption
AWS KMS key Info
snapshotkey
Account
491085415620
KMS key ID
99f47909-ef59-4f78-ab7f-2ecad4ebe666
Pricing details
For snapshot data export to Amazon S3, the cost of exporting snapshot data is based on the snapshot size. Learn more
Additional charges apply for storing exported data in Amazon S3. Learn more
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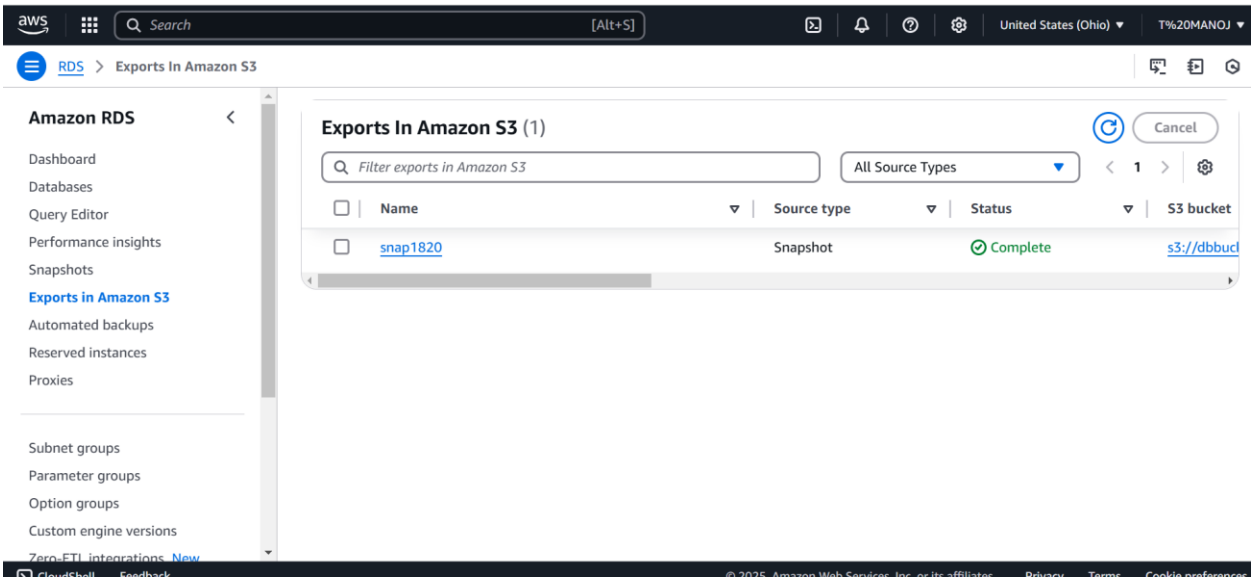
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RDS > Exports In Amazon S3
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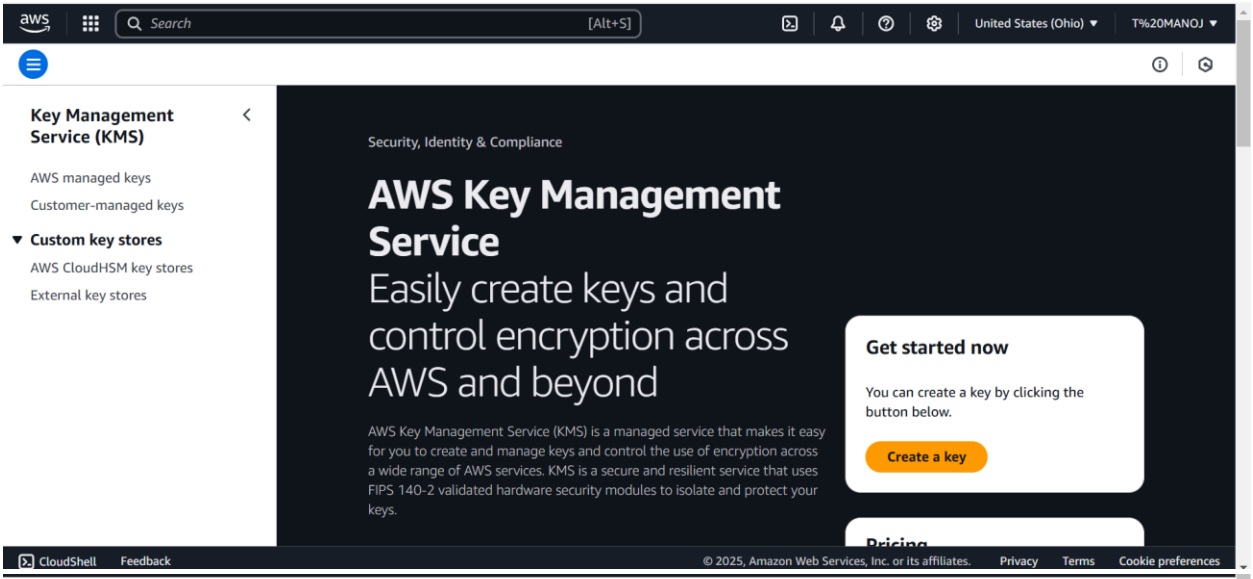
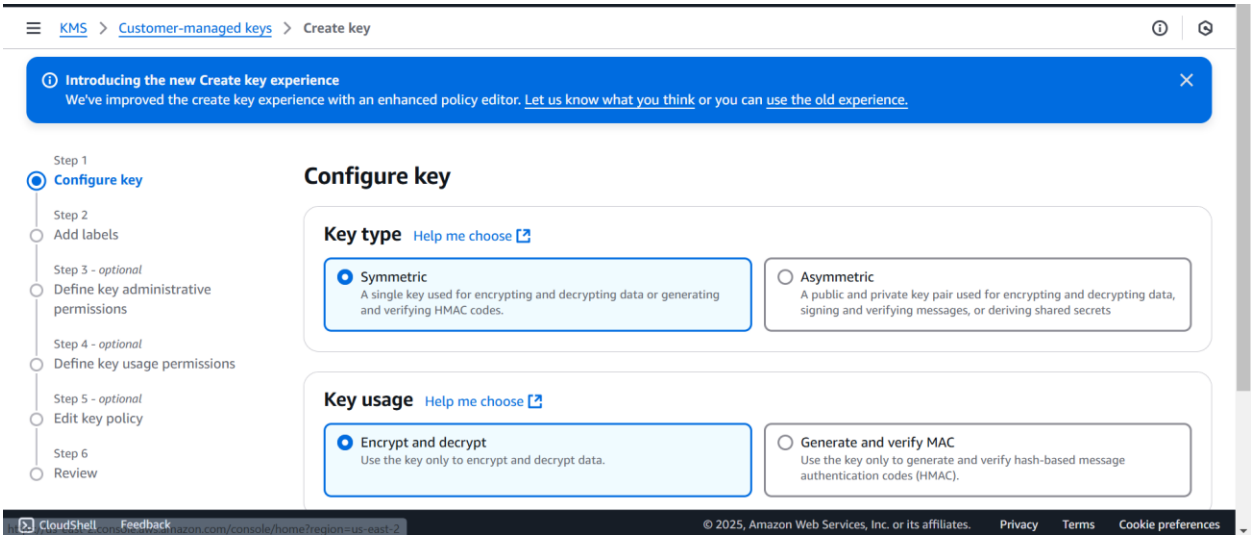
Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Exports In Amazon S3 (1)
Cancel
Filter exports in Amazon S3
All Source Types
Name
Source type
Status
S3 bucket
snap1820
Snapshot
Complete

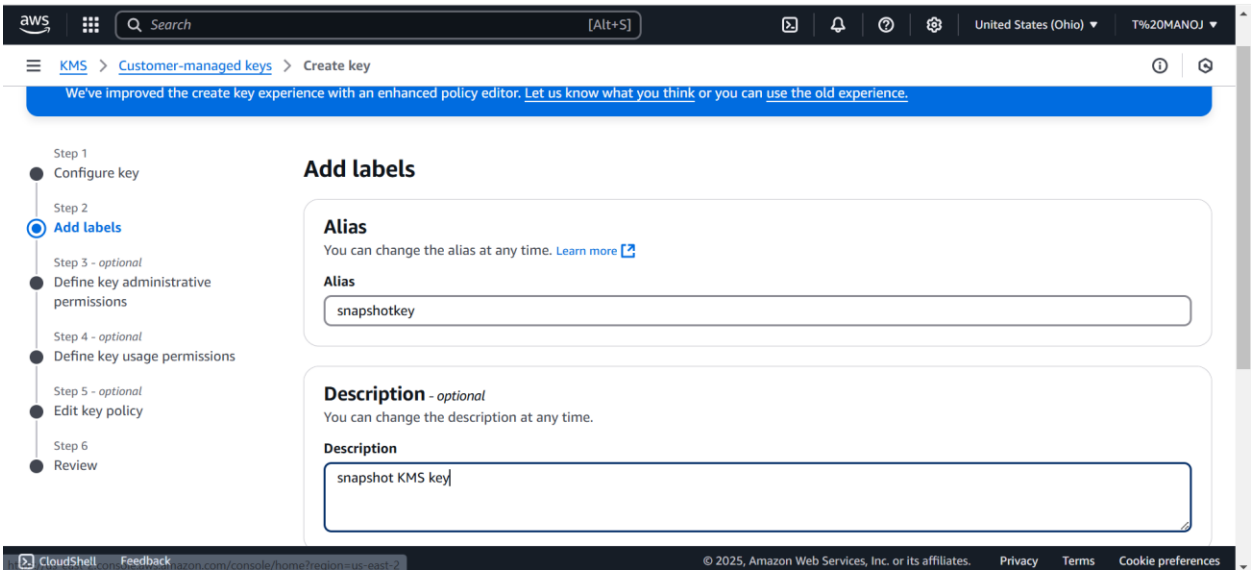
- 3. Create KMS Key for Encryption

- .. Navigate to IAM & KMS in the AWS console.

- .. Click Create Key and select Symmetric Key.
- .. Enter an alias and description for the key.
- .. Set permissions and attach an IAM policy to allow RDS access.
- .. Click Create Key and note the KMS Key ARN.






Search
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United States (Ohio)
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KMS > Customer-managed keys > Create key
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.
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
Add labels
Alias
You can change the alias at any time. Learn more
Alias
snapshotkey
Description - optional
You can change the description at any time.
Description
snapshot KMS key
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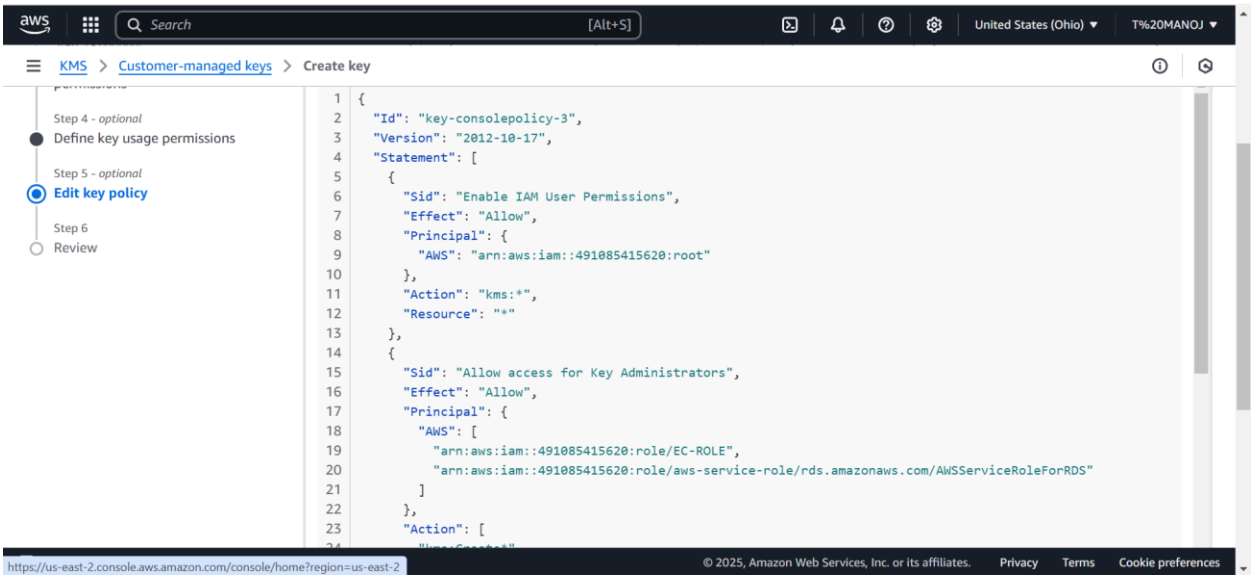
Search
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United States (Ohio)
T%20MANOJ
KMS > Customer-managed keys > Create key
Step 4 - optional
Define key usage permissions
Step 5 - optional
Edit key policy
Step 6
Review
{
"Id": "key-consolepolicy-3",
"Version": "2012-10-17",
"Statement": [
{
"Sid": "Enable IAM User Permissions",
"Effect": "Allow",
"Principal": {
"AWS": "arn:aws:iam::491085415620:root"
},
"Action": "kms:*",
"Resource": "*"
},
{
"Sid": "Allow access for Key Administrators",
"Effect": "Allow",
"Principal": {
"AWS": [
"arn:aws:iam::491085415620:role/EC-ROLE",
"arn:aws:iam::491085415620:role/aws-service-role/rds.amazonaws.com/AWSServiceRoleForRDS"
]
},
"Action": [
https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2
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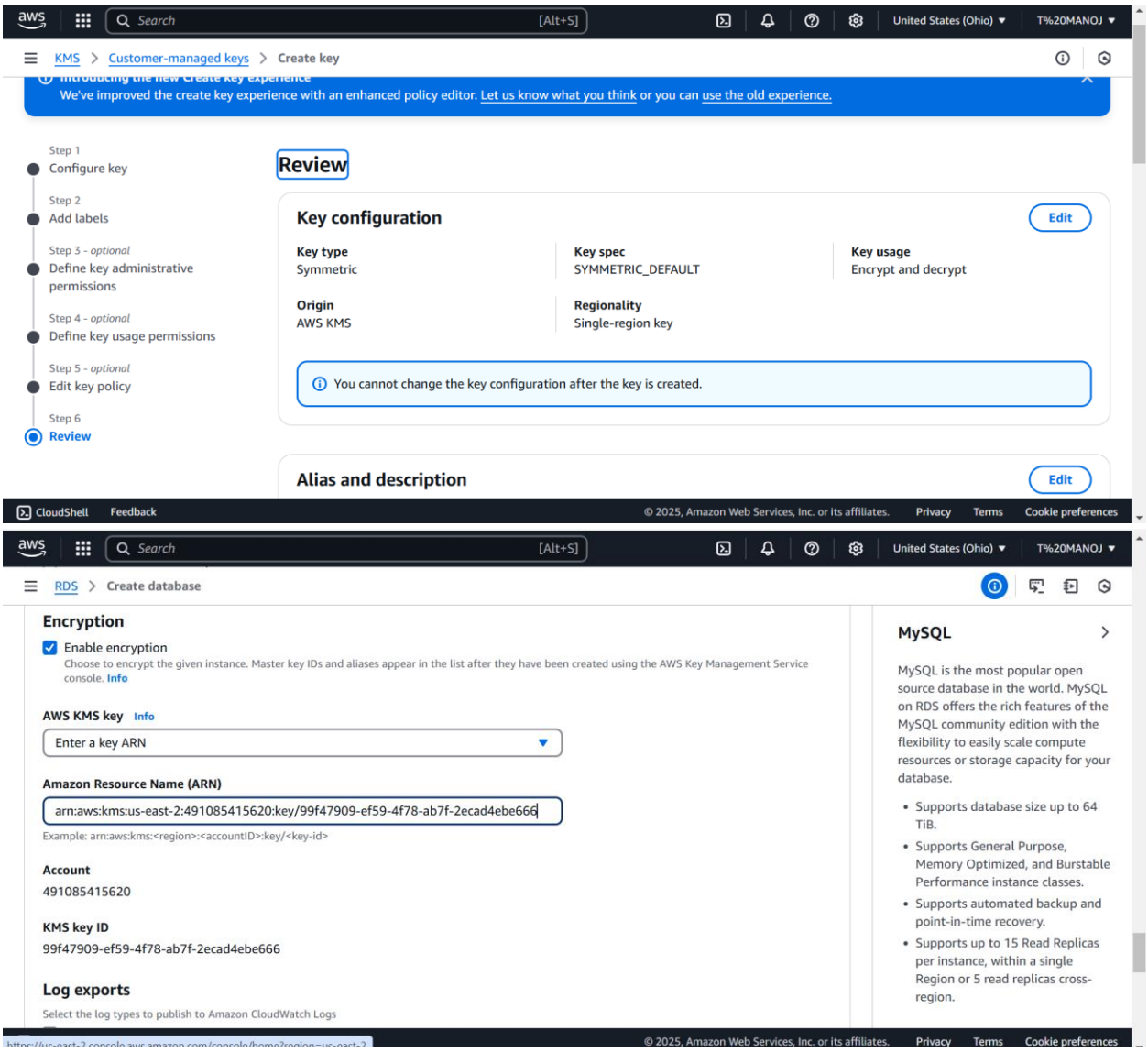


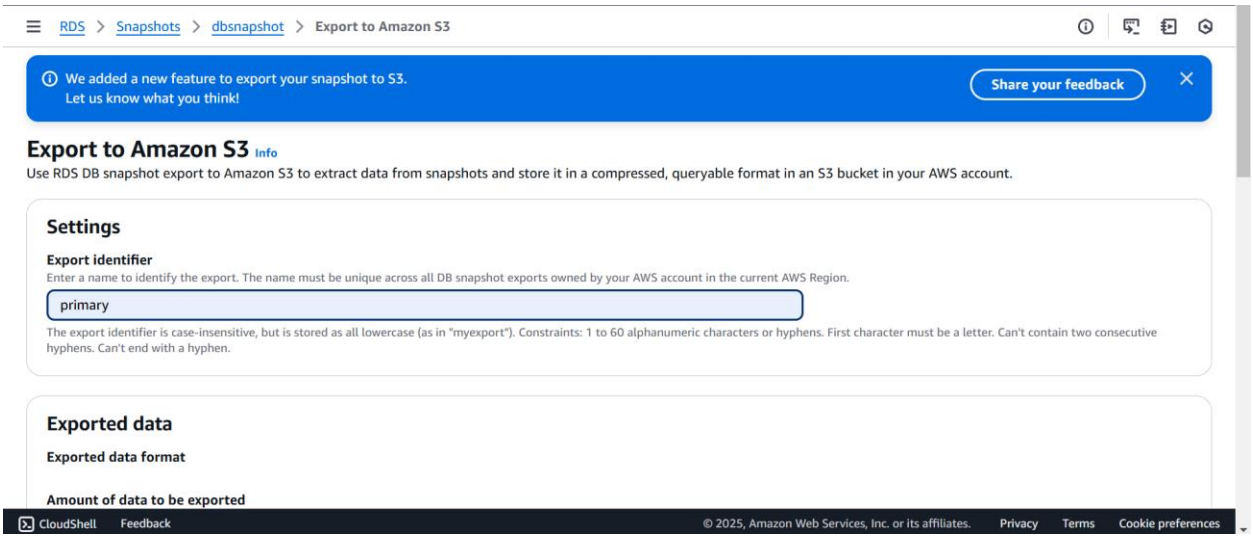
4. Create IAM Role for RDS Access

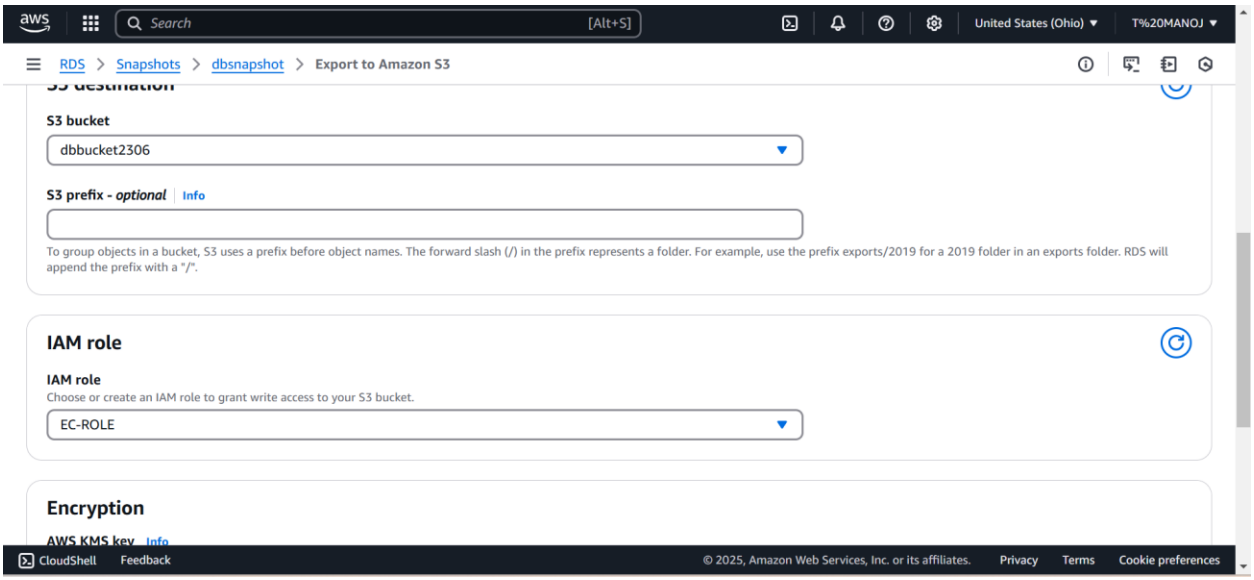
- .. Navigate to IAM > Roles and click Create Role.
- .. Choose AWS Service > RDS and click Next.
- .. Attach permissions for S3 Read Access and KMS Decrypt.
- .. Review and create the role.
- .. Assign the IAM role to the RDS instance.

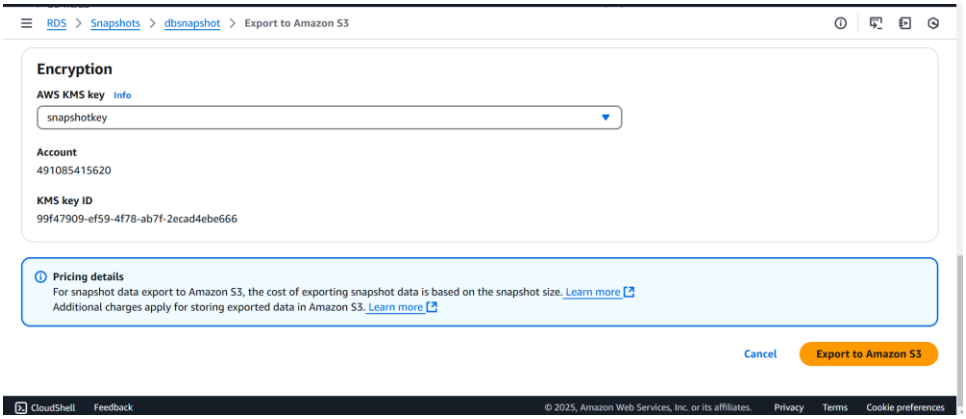
5. Export the Snapshot to Amazon S3

- .. Select the created snapshot in the RDS console.

- .. Click Actions > Export to Amazon S3.
- .. Choose the destination S3 bucket for the exported snapshot.
- .. Select or create a KMS key for encryption.
- .. Start the export and wait for completion.
- .. Verify that the snapshot appears in the S3 bucket.

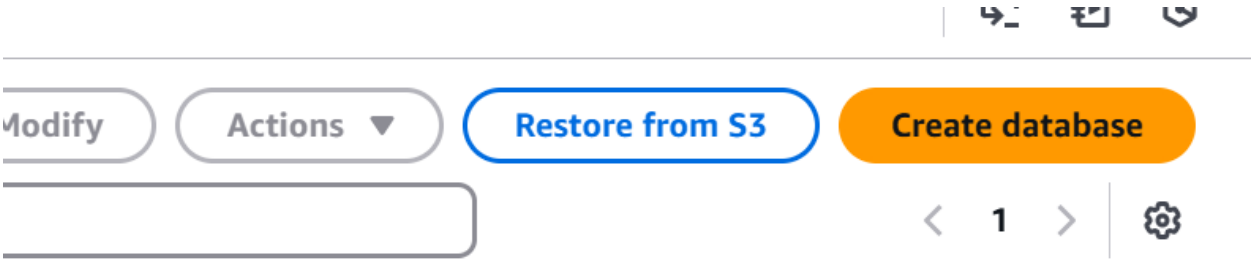






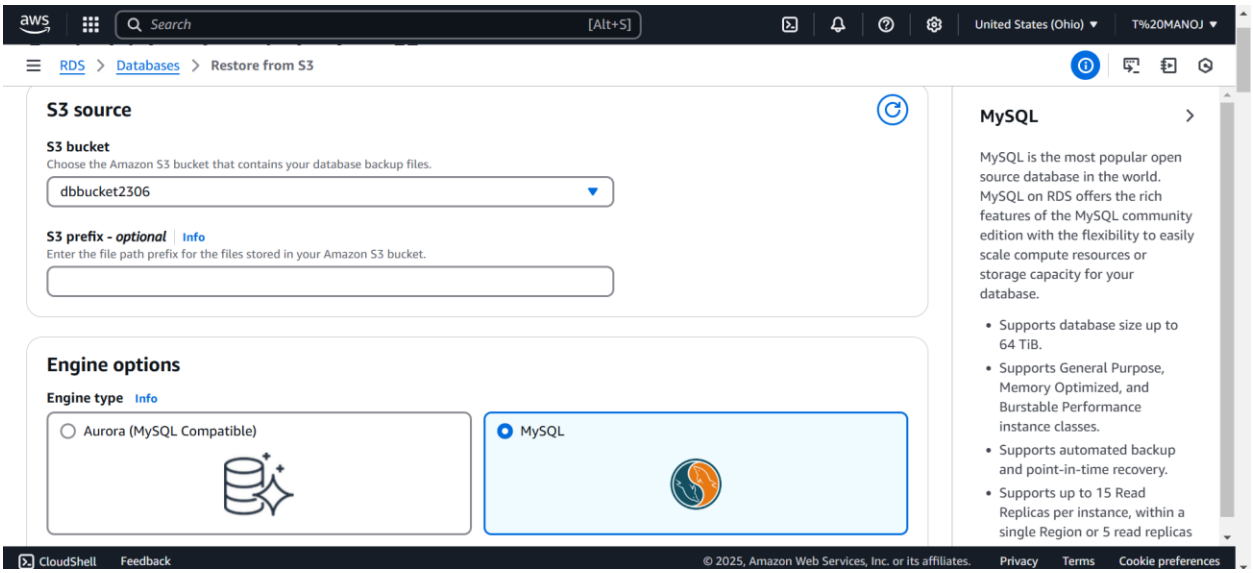
6. Delete the Original Database

- .. In the RDS Console, select the original database instance.
- .. Click Actions > Delete.
- .. Confirm deletion and ensure retention of snapshots in S3.



7. Restore the Database from the Snapshot in S3

- .. Navigate to RDS > Snapshots.
- .. Click Restore Snapshot and select the snapshot stored in S3.
- .. Configure the new database instance settings.
- .. Click Restore Database and wait for it to become available.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RDS > Databases > Restore from S3
S3 source
S3 bucket
Choose the Amazon S3 bucket that contains your database backup files.
dbbucket2306
S3 prefix - optional | Info
Enter the file path prefix for the files stored in your Amazon S3 bucket.
Engine options
Engine type Info
Aurora (MySQL Compatible)
MySQL
MySQL
MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.
Supports database size up to 64 TiB.
Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
Supports automated backup and point-in-time recovery.
Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas
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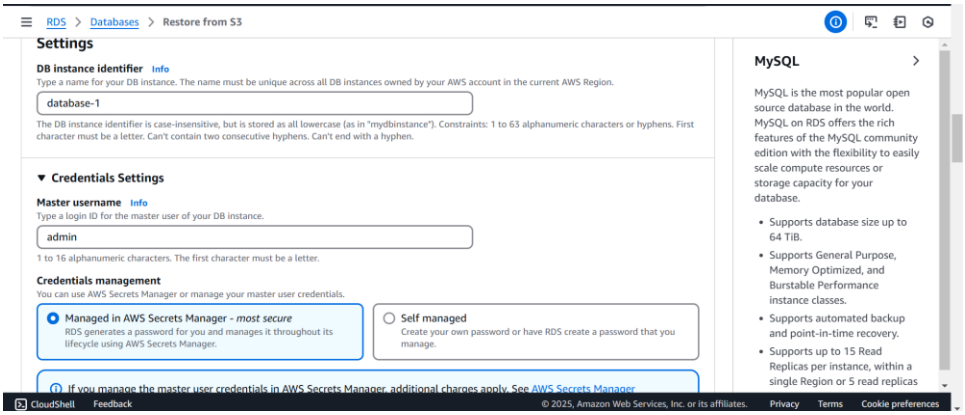
RDS > Databases > Restore from S3
Settings
DB instance identifier Info
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.
database-1
The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 63 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.
Credentials Settings
Master username Info
Type a login ID for the master user of your DB instance.
admin
1 to 16 alphanumeric characters. The first character must be a letter.
Credentials management
You can use AWS Secrets Manager or manage your master user credentials.
Managed in AWS Secrets Manager - most secure
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.
Self managed
Create your own password or have RDS create a password that you manage.
If you manage the master user credentials in AWS Secrets Manager, additional charges apply. See AWS Secrets Manager
MySQL
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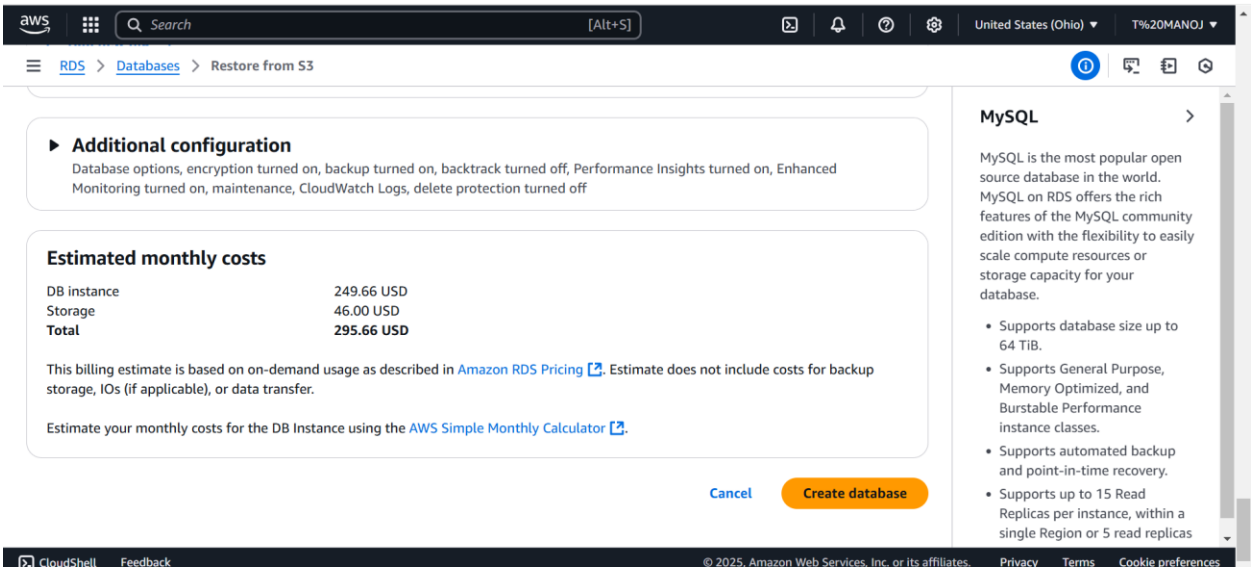
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RDS > Databases > Restore from S3
Additional configuration
Database options, encryption turned on, backup turned on, backtrack turned off, Performance Insights turned on, Enhanced Monitoring turned on, maintenance, CloudWatch Logs, delete protection turned off
Estimated monthly costs
DB instance 249.66 USD
Storage 46.00 USD
Total 295.66 USD
This billing estimate is based on on-demand usage as described in Amazon RDS Pricing. Estimate does not include costs for backup storage, IOs (if applicable), or data transfer.
Estimate your monthly costs for the DB Instance using the AWS Simple Monthly Calculator.
Cancel
Create database
MySQL
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