**Automation Script for Encryption – RDS MySQL**

#!/bin/bash

*#Create DB instance*

aws rds create-db-instance --engine MySQL /

--db-instance-identifier database-name /

--allocated-storage 200 /

--db-instance-class db.t3.micro /

--vpc-security-group-ids security-group-id/

--db-subnet-group subnet-groupid /

--master-username username /

--master-user-password password /

--backup-retention-period 3

*#create DB snapshot*

aws rds create-db-snapshot /

--region region-id /

--db-snapshot-identifier database-snapshot /

--db-instance-identifier database-name

*#encrypt the DB snapshot using the kms key id created in the same region of DB*

aws rds copy-db-snapshot /

--region region-id /

--source-db-snapshot-identifier database-snapshot /

--target-db-snapshot-identifier database-snapshot-encrypted / --copy-tags --kms-key-id key-id

*# restore the snapshot*

aws rds restore-db-instance-from-db-snapshot /

--region region-id /

--db-instance-identifier database-encrypted /

--db-snapshot-identifier database-snapshot-encrypted

**Example:**

#!bin/bash

*#Create DB instance*

aws rds create-db-instance --engine MySQL /

--db-instance-identifier database-2 /

--allocated-storage 200 /

--db-instance-class db.t3.micro /

--vpc-security-group-ids sg-0c9c7803eb60d609d /

--db-subnet-group default-vpc-0ad7e0bf54c1ba342 /

--master-username admin /

--master-user-password password /

--backup-retention-period 3

*#create DB snapshot*

aws rds create-db-snapshot /

--region us-east-1 /

--db-snapshot-identifier database-2-db-snapshot /

--db-instance-identifier database-2

*#encrypt the DB snapshot using the kms key id created in the same region of DB*

aws rds copy-db-snapshot /

--region us-east-1 /

--source-db-snapshot-identifier database-2-db-snapshot /

--target-db-snapshot-identifier database-2-db-snapshot-ncrypted / --copy-tags --kms-key-id b337bfb7-acef-4d01-b0dd-09d68155358e

*# restore the snapshot*

aws rds restore-db-instance-from-db-snapshot /

--region us-east-1 /

--db-instance-identifier database-2-db-encrypted /

--db-snapshot-identifier database-2-db-snapshot-encrypted