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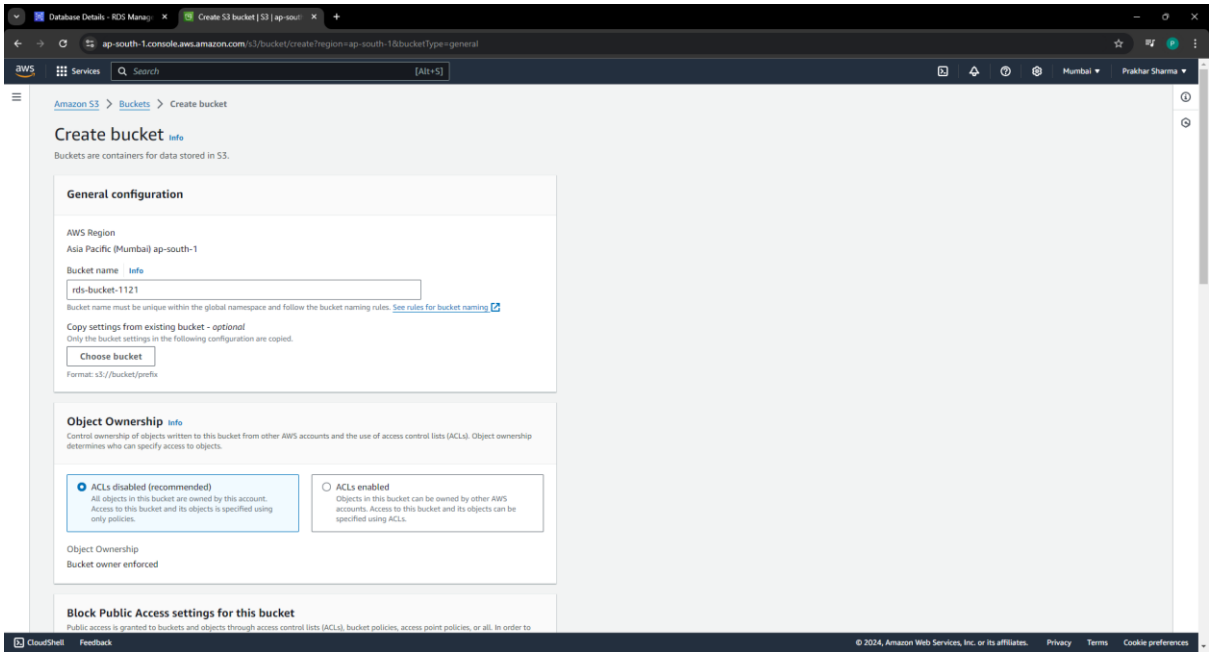
School of Computer Science, Engineering and Applications(SCSEA)
B.C.A. TY (CCSA)
Subject : Advanced Cloud Computing (P)

Name of the Student: Prakhar Anil Sharma **PRN:** 20220801121

Title of Practical : Export Amazon RDS DB Snapshot to S3

Step-1]Go to Amazon S3.
Step-2] Click on Buckets then click on create bucket.
Step-3]Name your bucket.
step-4]In Object Ownership, select ACLs disabled.



Step-5]In Block Public access settings, tick the checkbox of Block all Public Access.
Step-6]Bucket Versioning, Disable.

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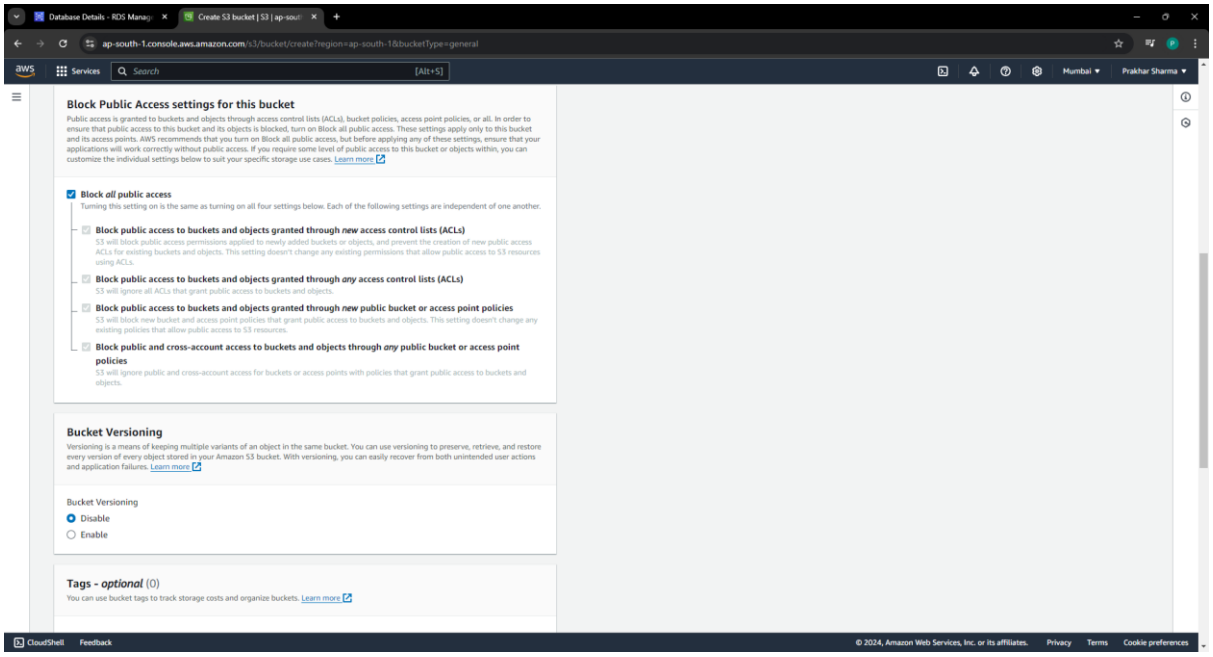

Step-7]In Default encryption

- Select SSE-S3 as encryption type
- Select Bucket Type – enable

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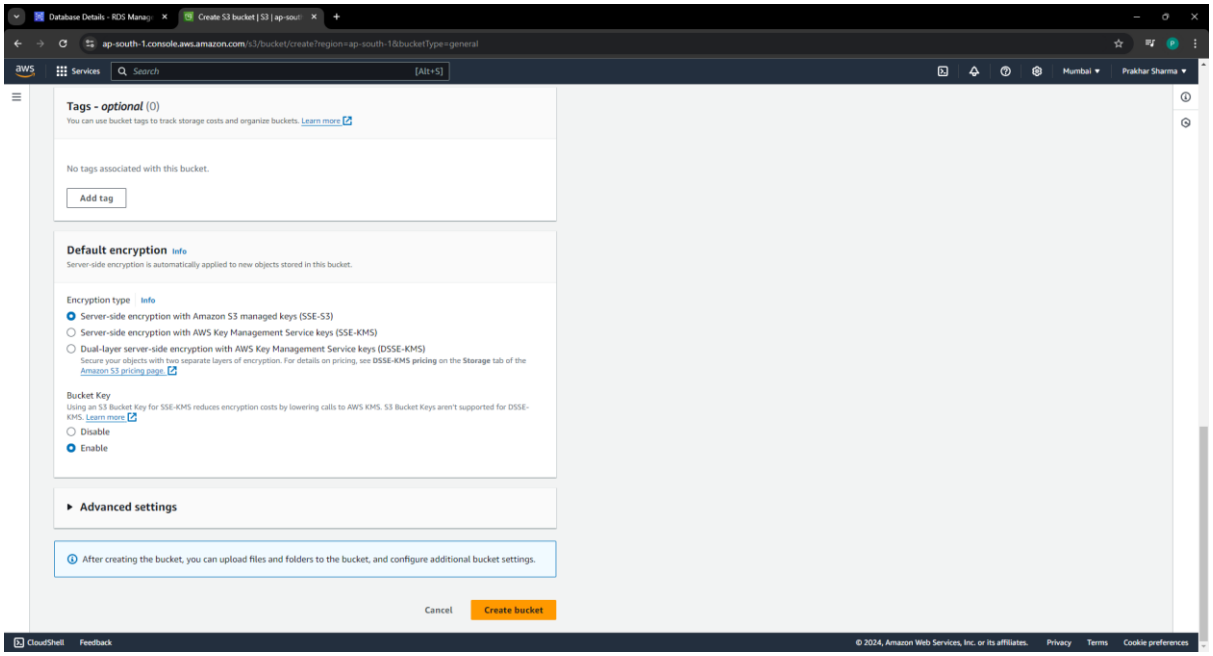
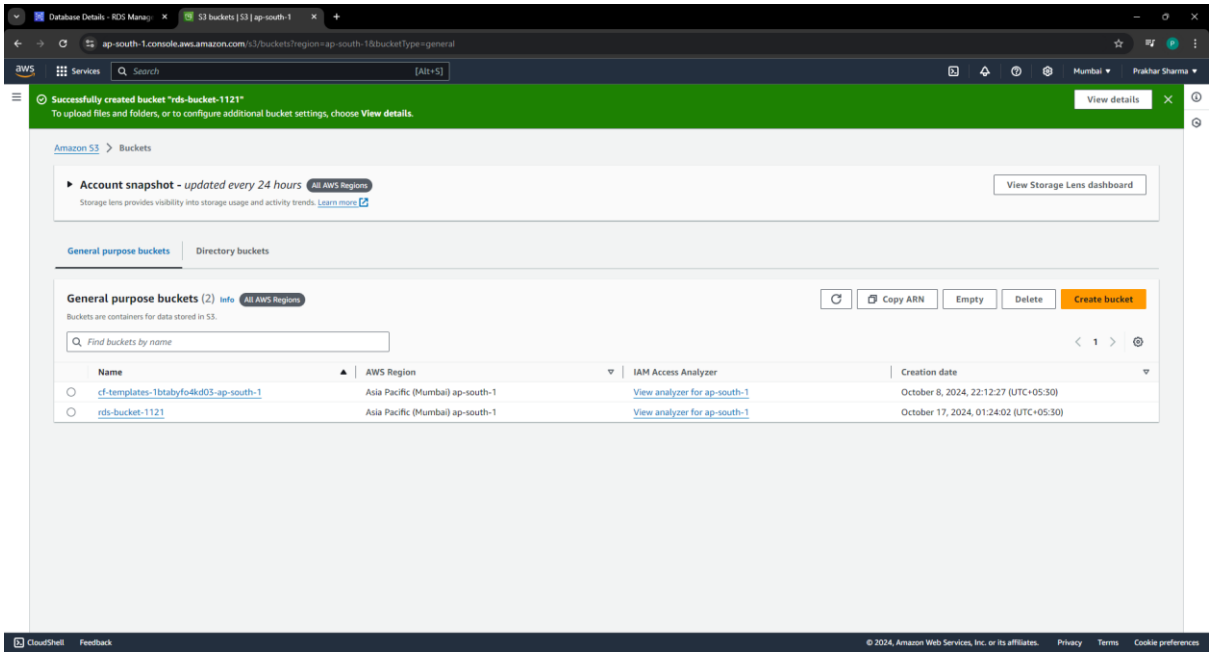
Step-8] Click on create bucket.





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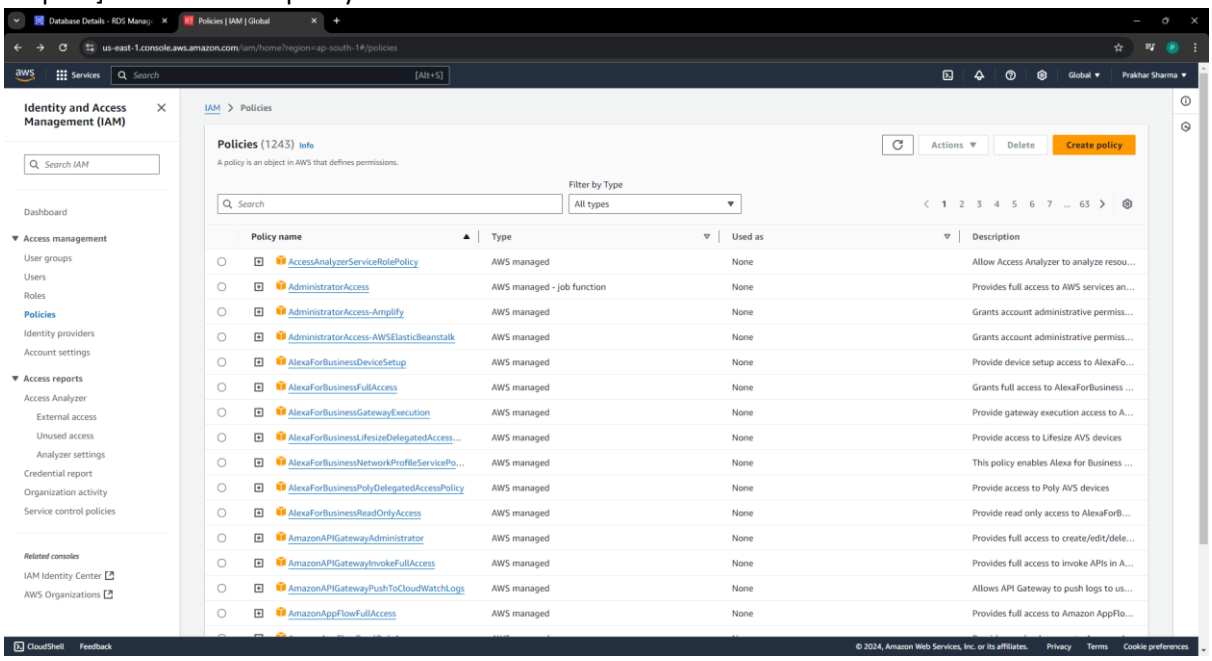
Title of Practical : Export Amazon RDS DB Snapshot to S3

Step-9]Go to IAM , Click on Policies.
Step-10]Click on create policy.



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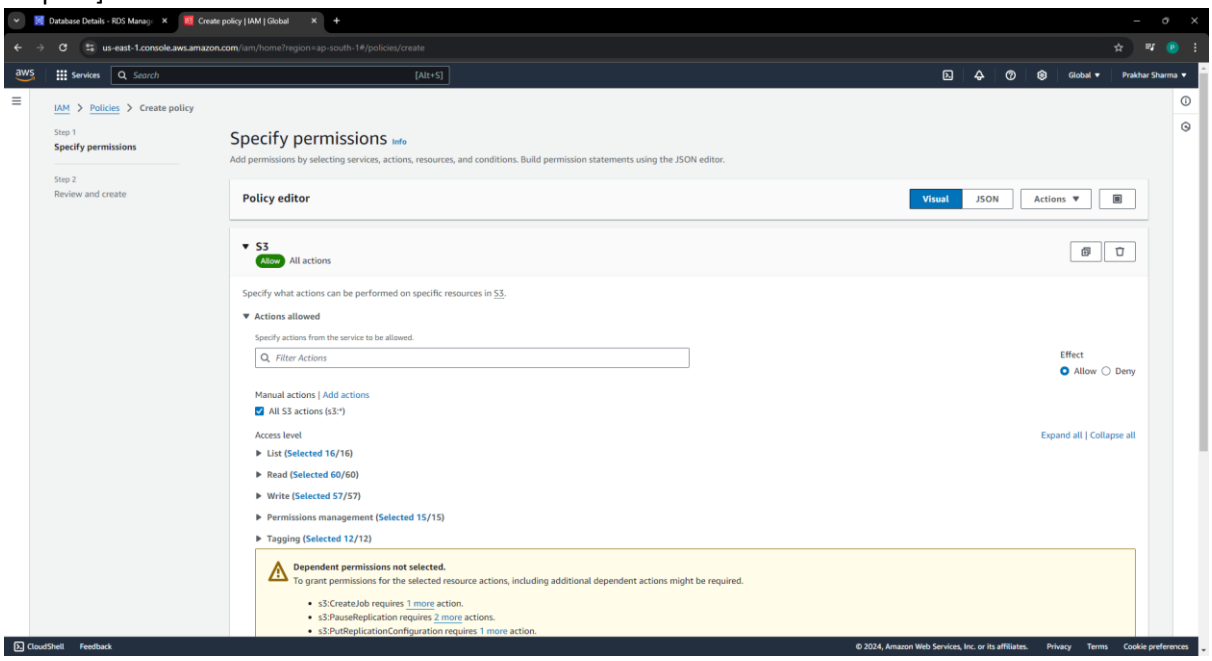
Step-11]In Specify permission, Select S3 as a service.
Step-12] Tick the checkbox of All S3 action



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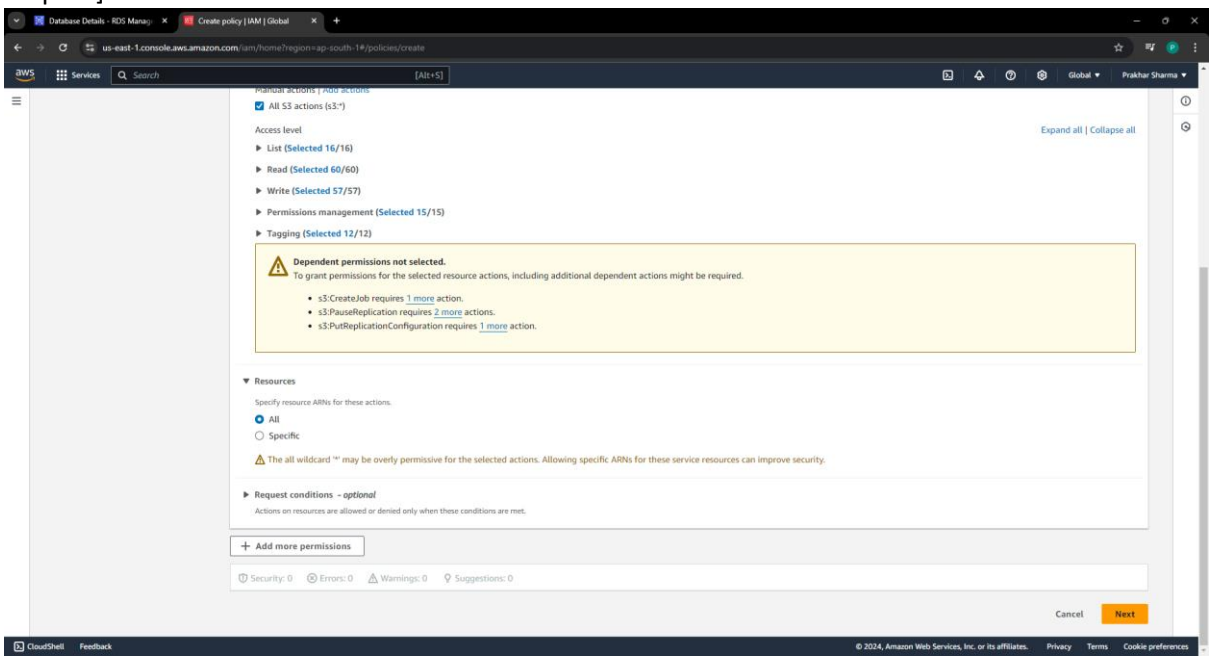
Title of Practical : Export Amazon RDS DB Snapshot to S3

Step-13]In Resources, Select All.

Step-14] Click on Next.



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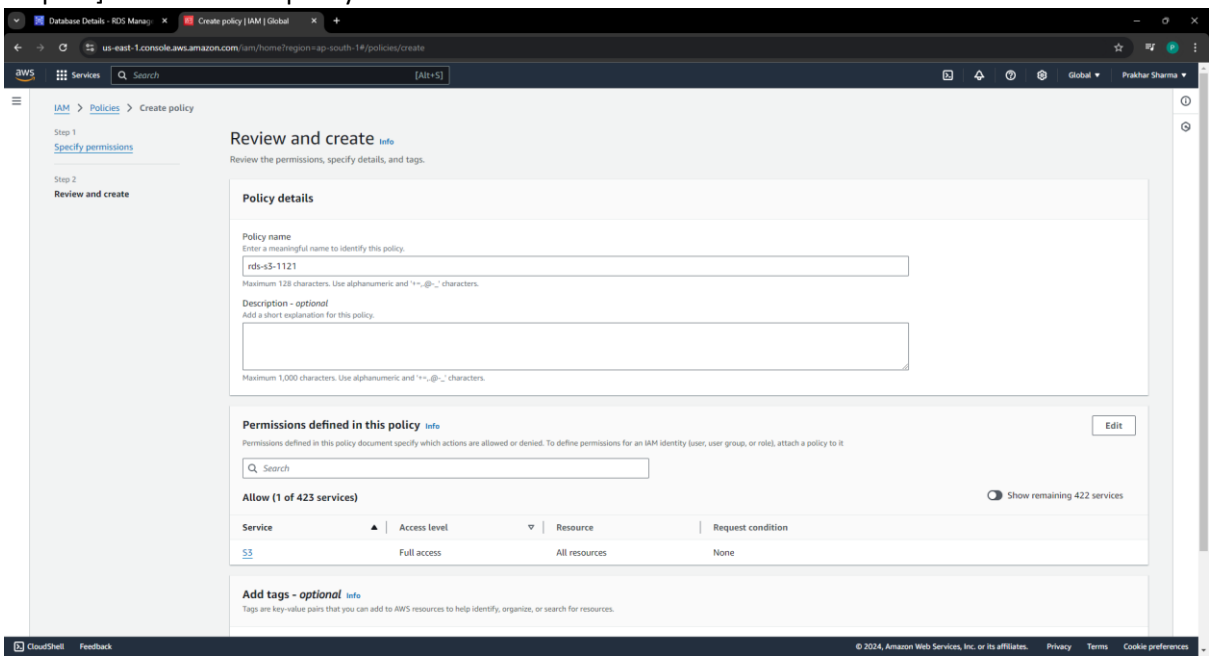
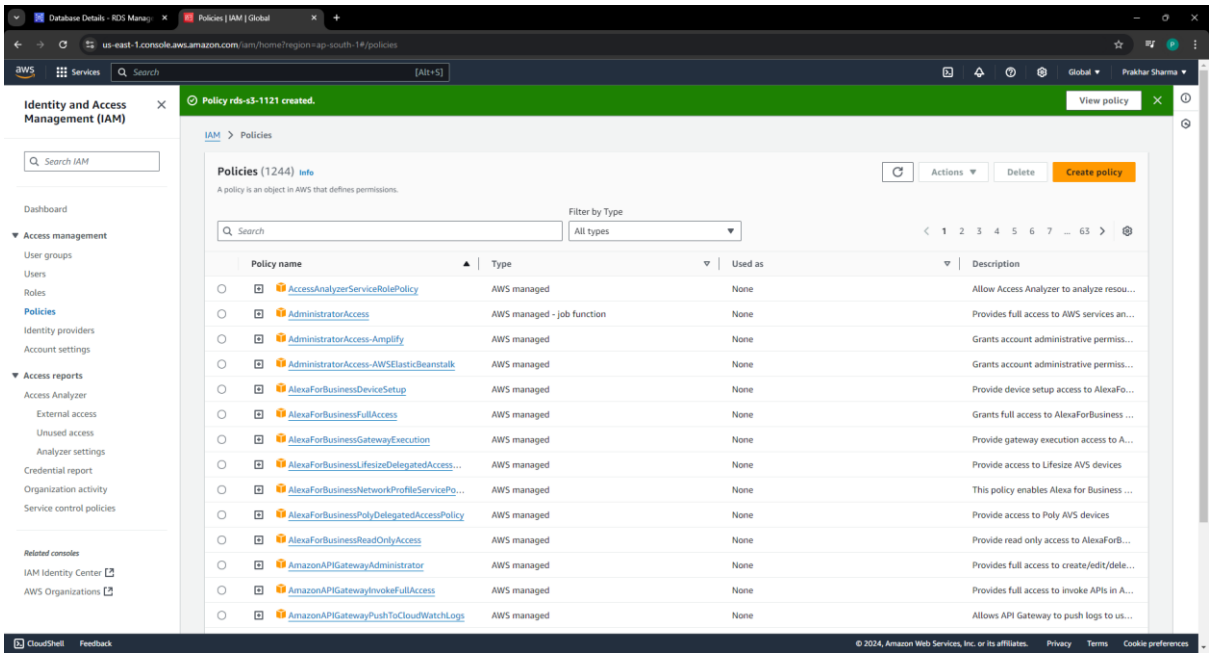
Title of Practical : Export Amazon RDS DB Snapshot to S3

Step-15]Name the policy.

Step-16]Click on create policy.





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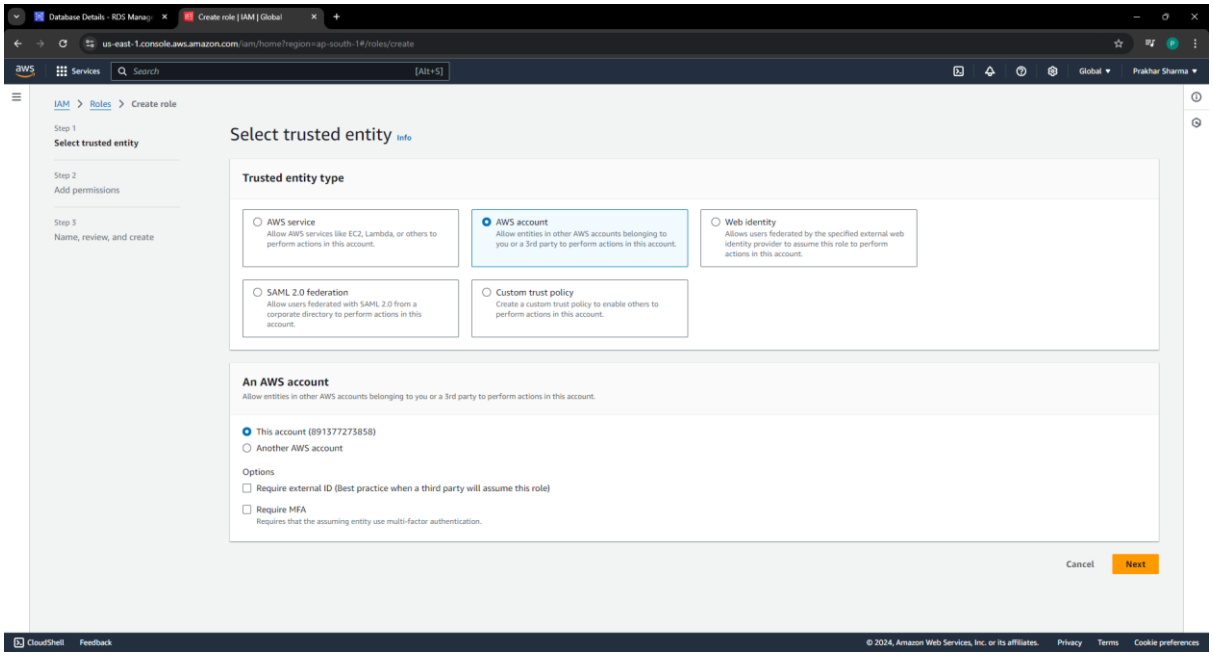
Title of Practical : Export Amazon RDS DB Snapshot to S3

Step-17]Go to IAM ,Click on Roles.
Step-18]Click on create role.
Step-19]Select Trusted entity type as AWS account.
Step-20]Click on Next.



Step-21]In Add permissions Search and select the RDS Policy You Just created.
Step-22]Click on Next.

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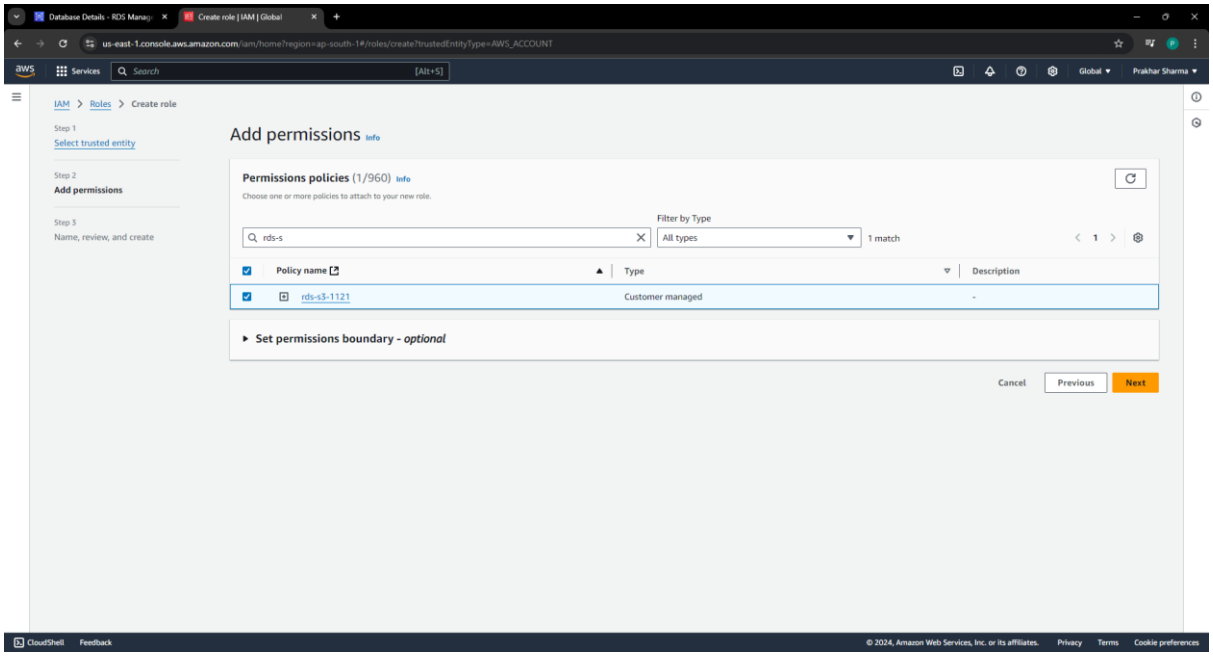
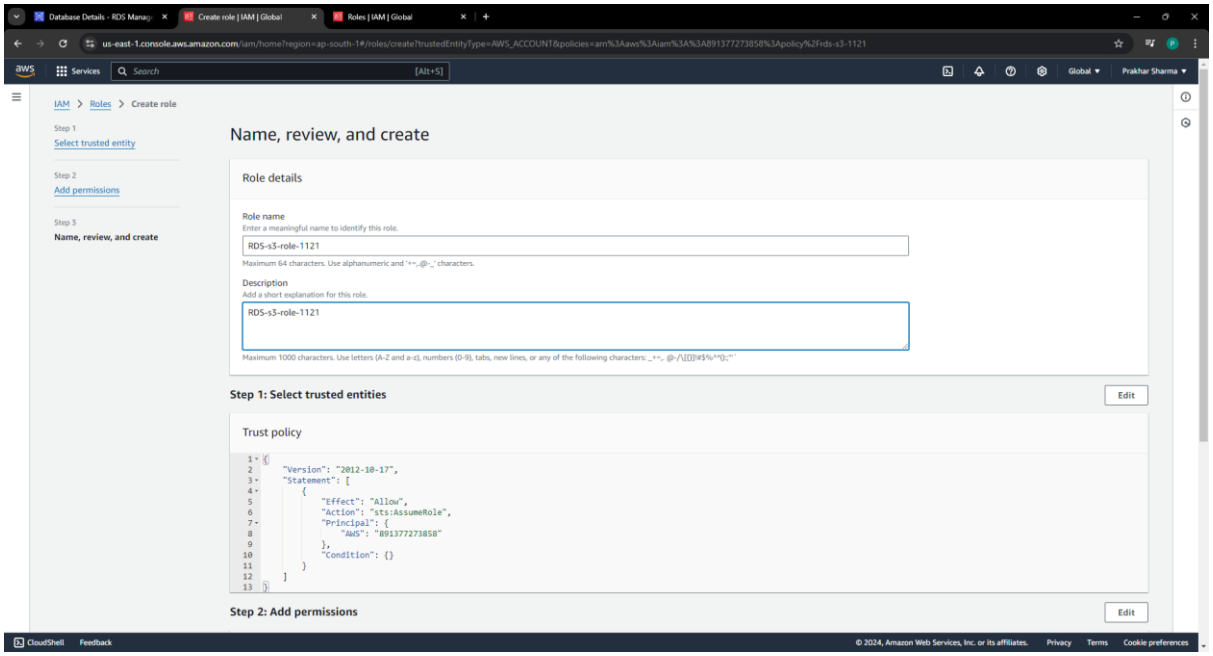


Step-23]Give Role Name.

Step-24]Click on create role.



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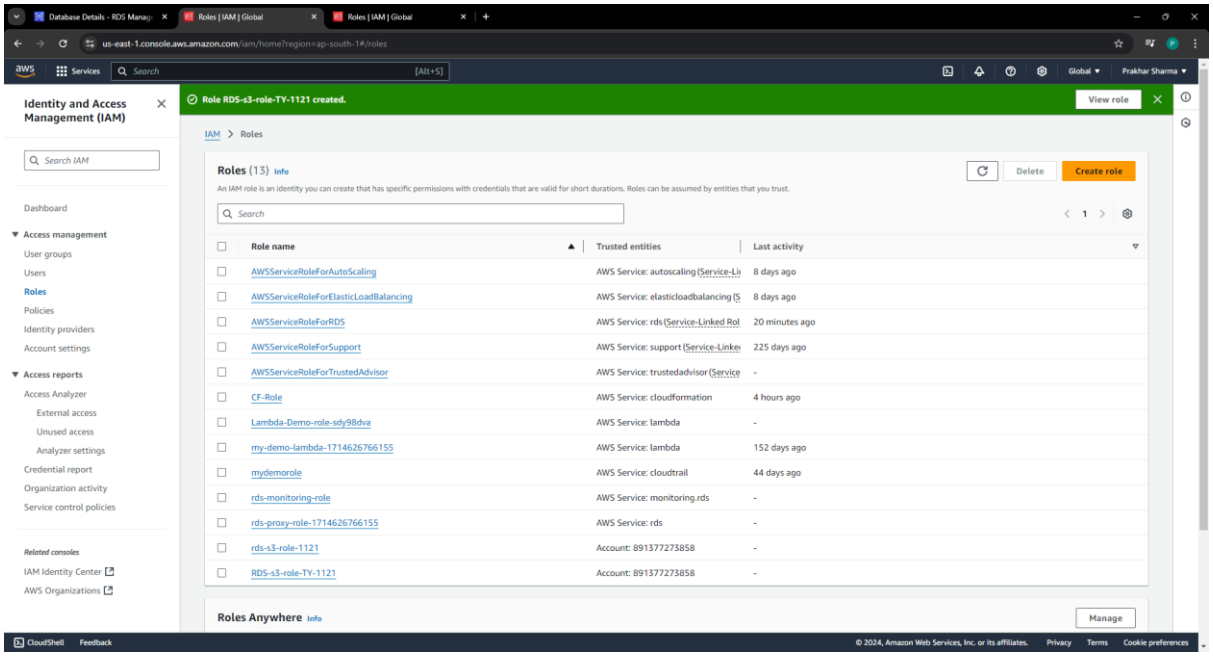

Step-25]Go to KMS.
Step-26]Click on customer-managed keys.
Step-27]Click on create key.
Step-28]In Configure Key, Select Key Type as Symmetric and Key Usage as Encrypt and Decrypt.

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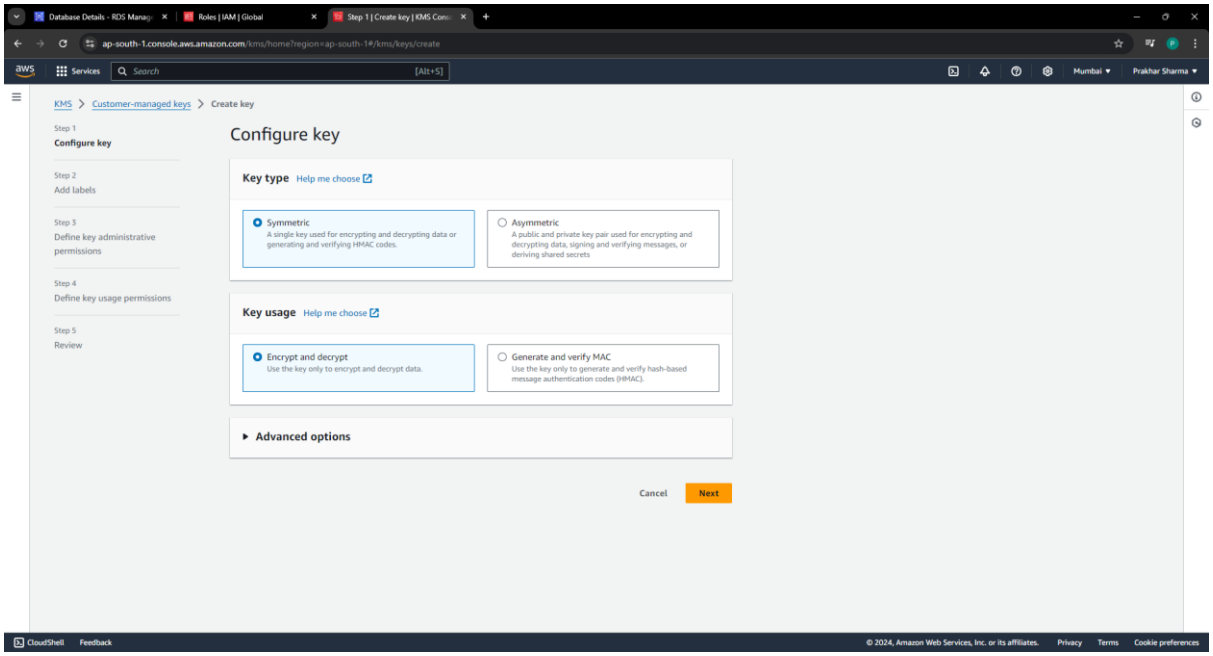
Step-29] Click on Next.



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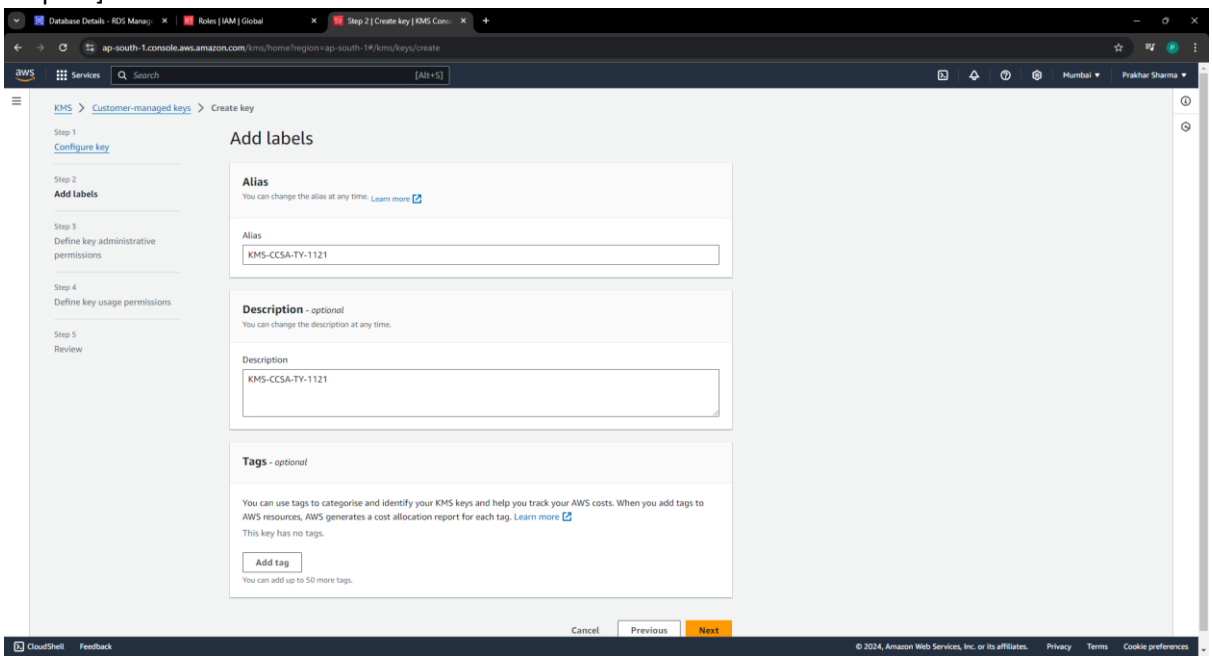
Step-30]In Add labels, Name the Alias.
Step-31]Click on Next.



Step-32]In Define Key usage permissions, Select the IAM Role you created .
Step-33]Click on Next.

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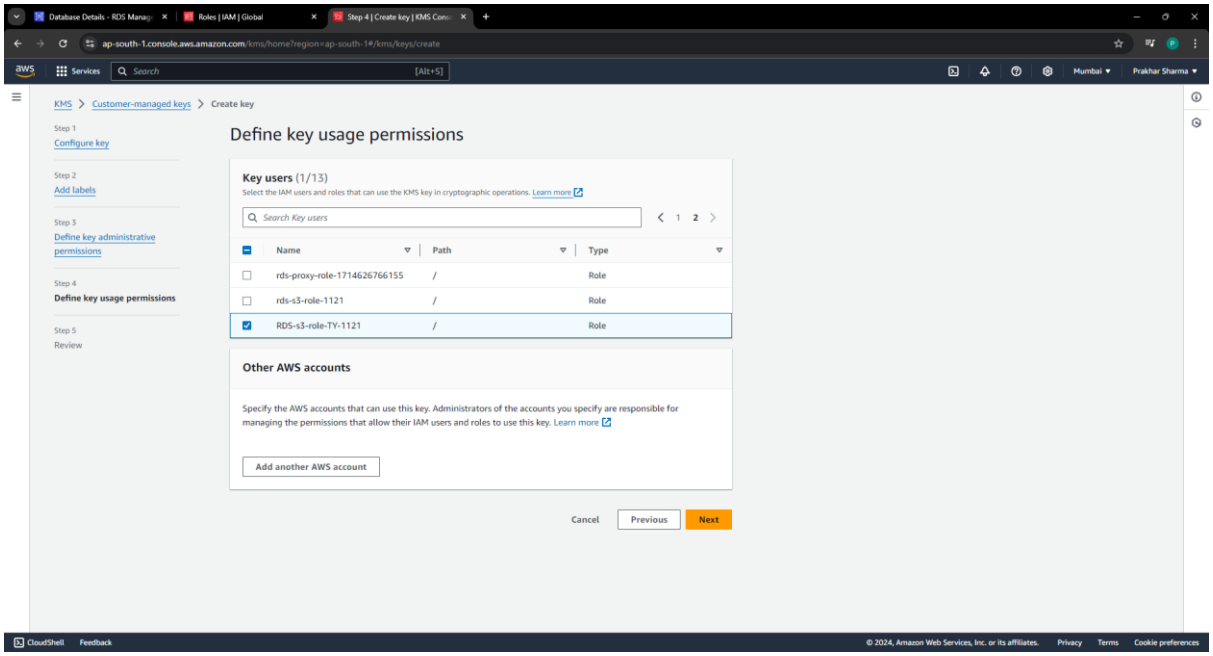
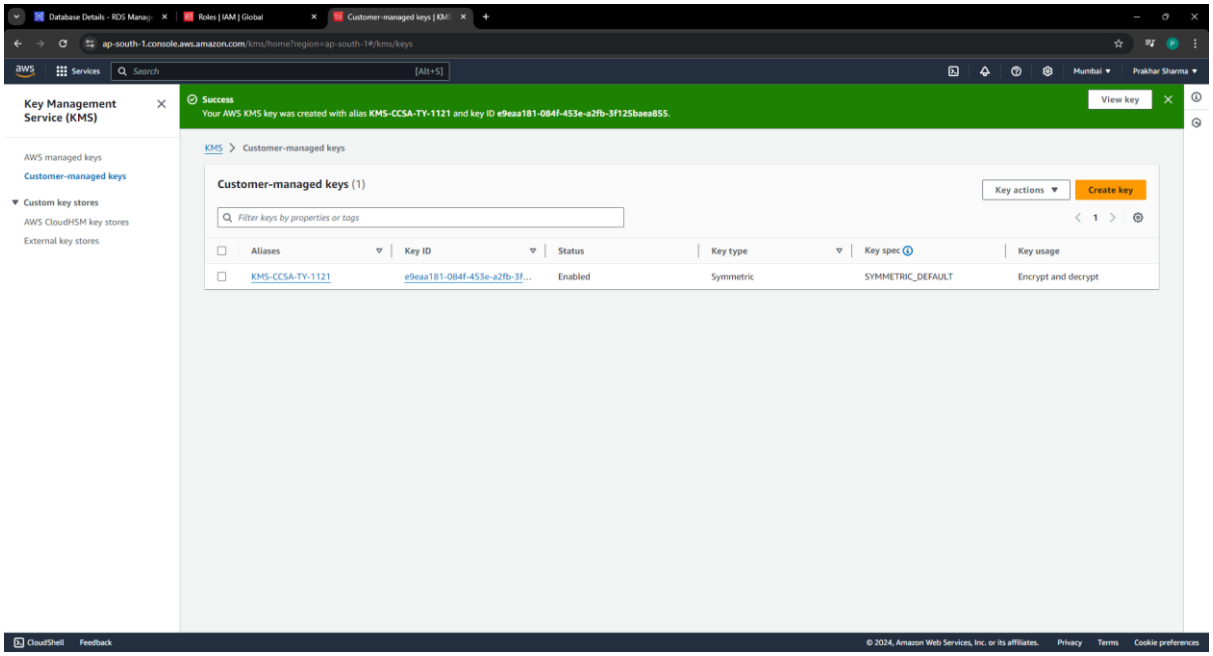
Step-34]Click on create key.





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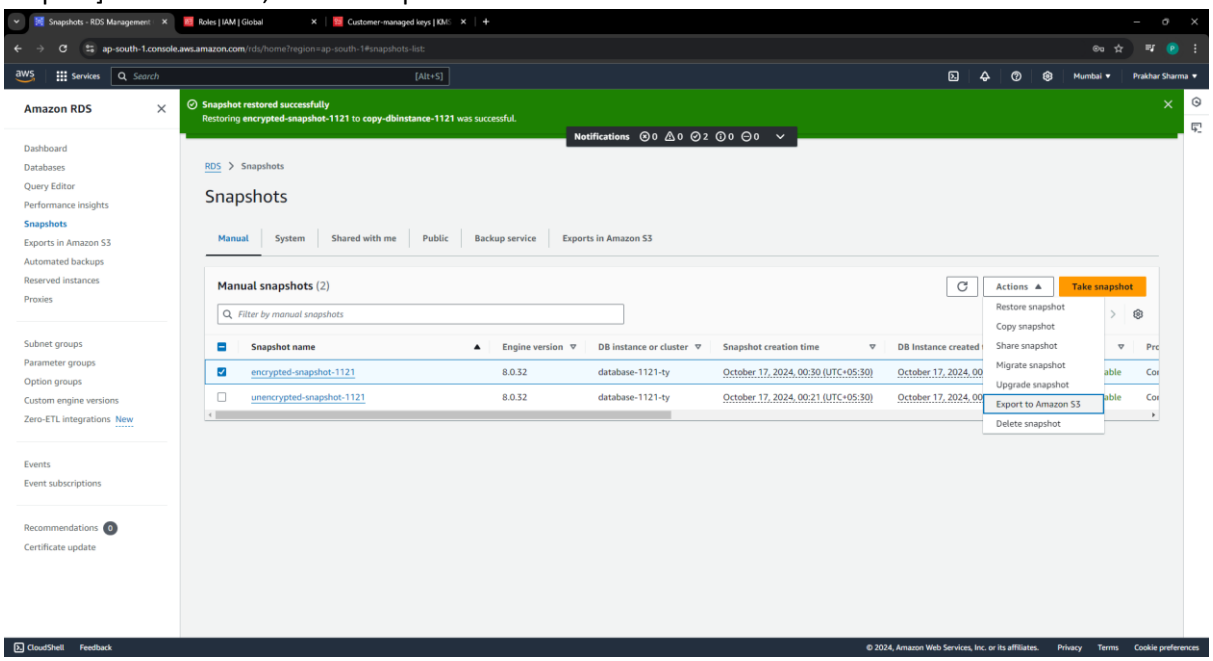
Title of Practical : **Export Amazon RDS DB Snapshot to S3**

Step-35]Go to RDS Snapshots.
Step-36] Select the encrypted snapshot you created .
Step-37]Go to actions, Click on Export to Amazon S3.



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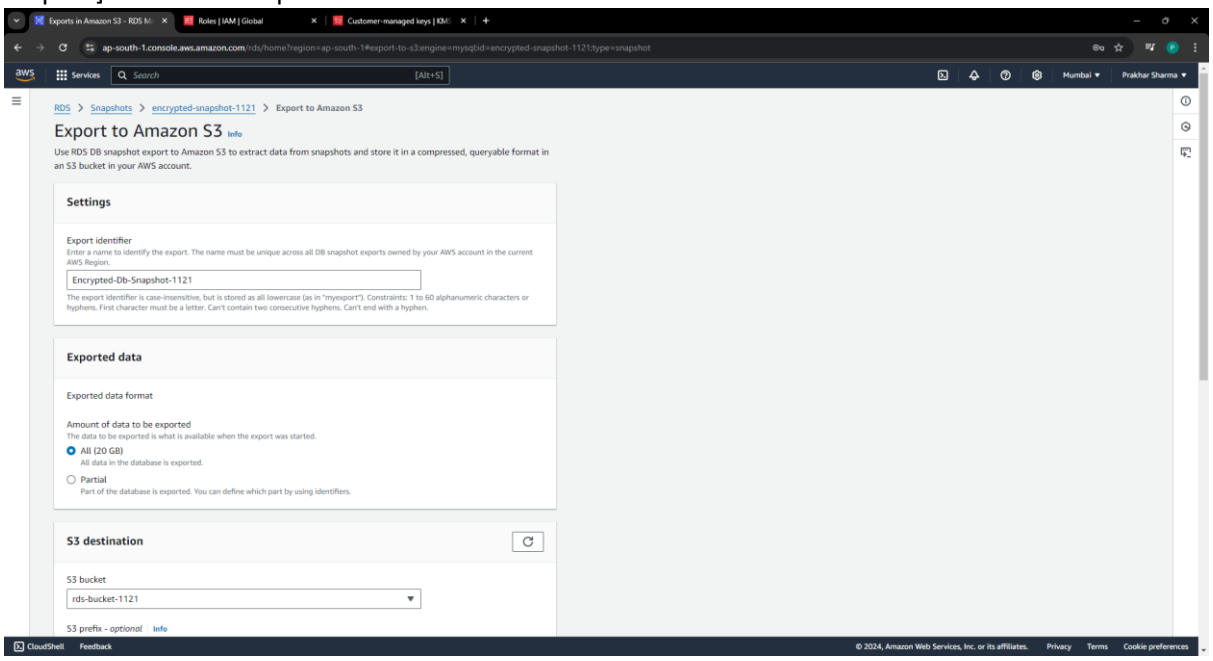
Title of Practical : Export Amazon RDS DB Snapshot to S3

Step-38]In Settings, Name the Export identifier.
Step-39]Select All in Exported data.



Step-40] In S3 destination, Select the S3 bucket you created from the dropdown.
Step-41]In IAM Role, Select the IAM Role you created from the dropdown.

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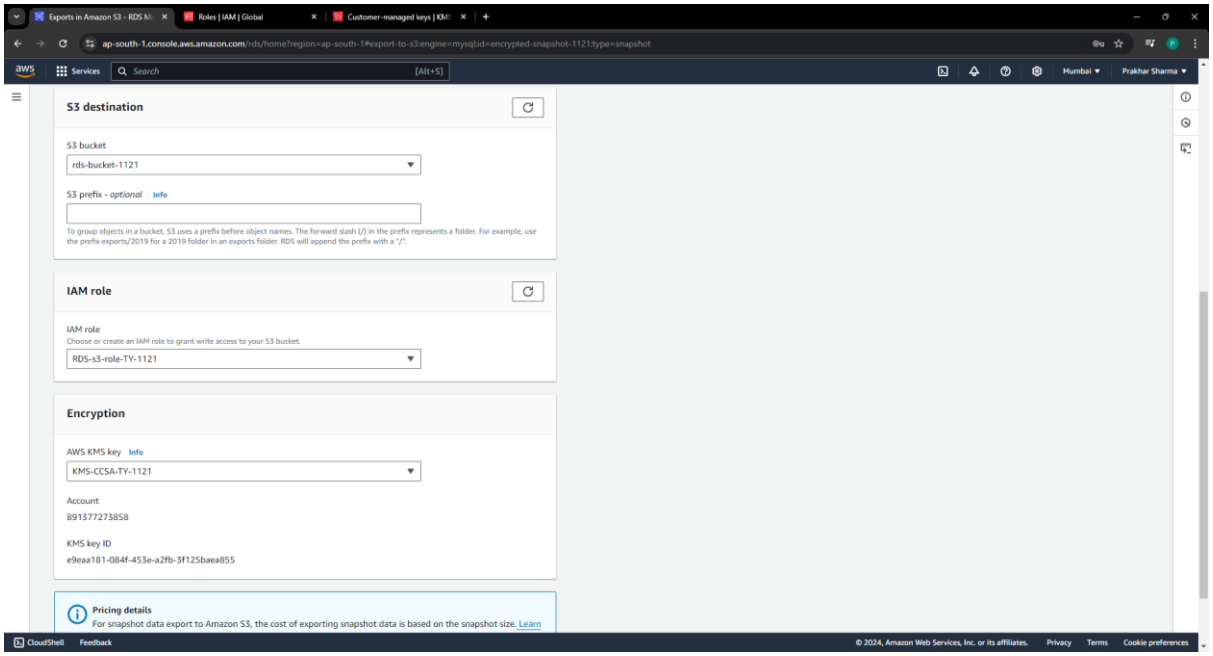
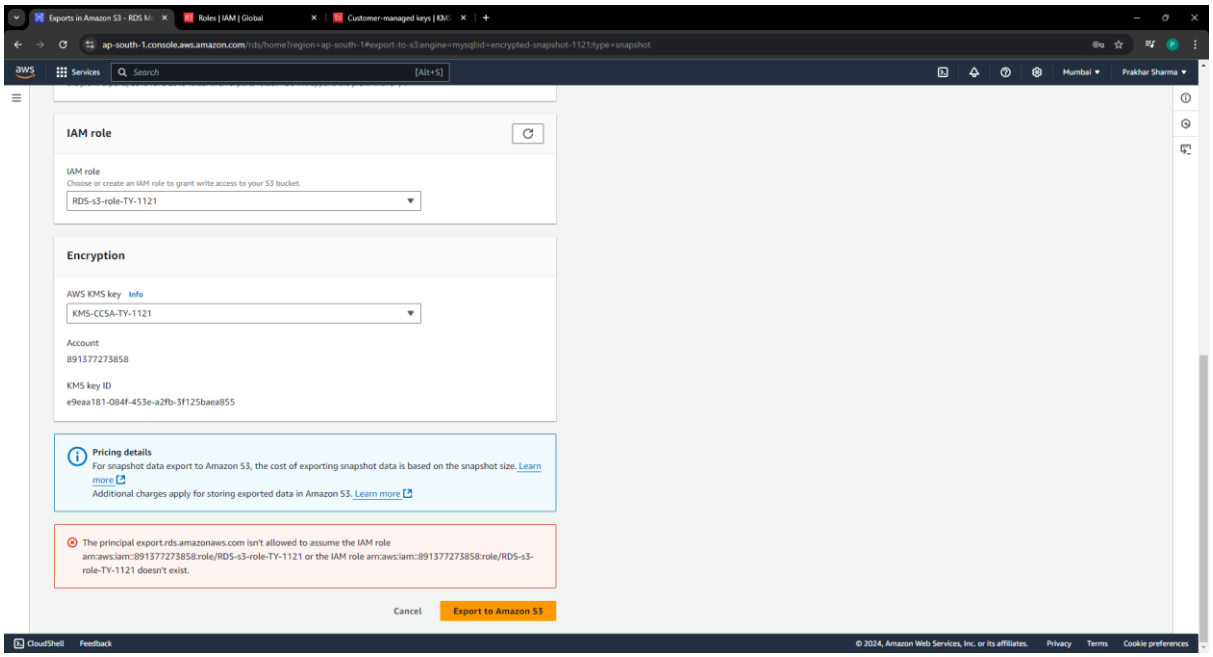
Step-41]In Encryption, Select the KMS Key You created from the dropdown.



You will see a red box at the end, to resolve this Go to IAM Role.



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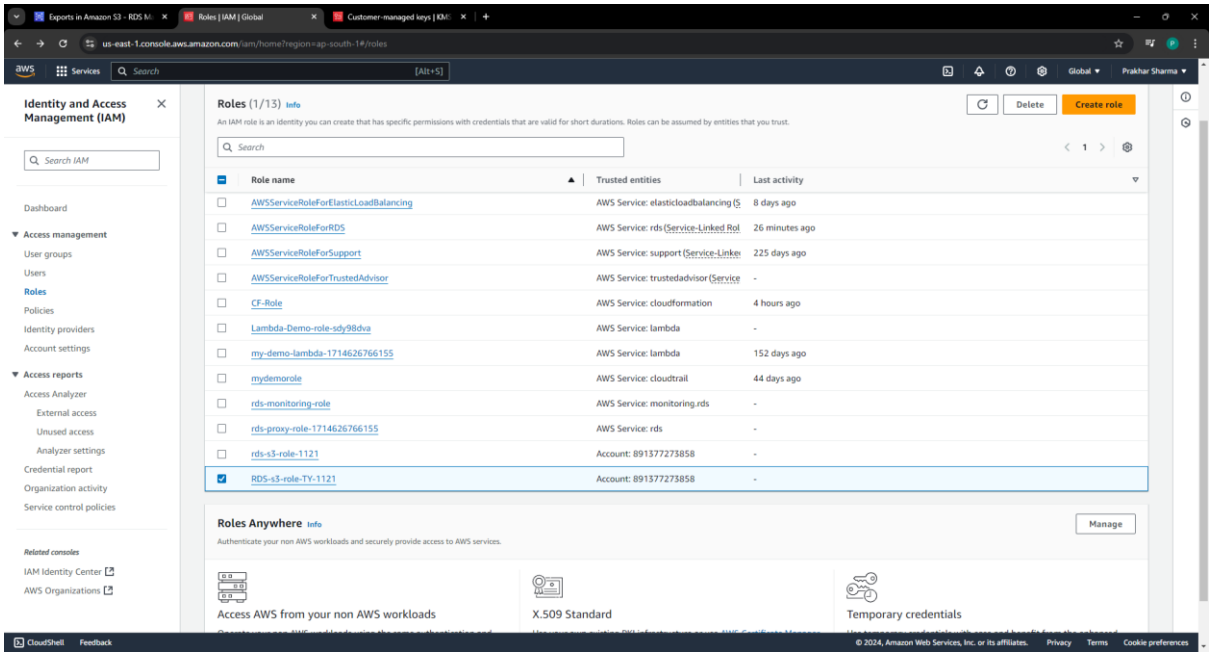
Step-42]Select and click on the RDS role.



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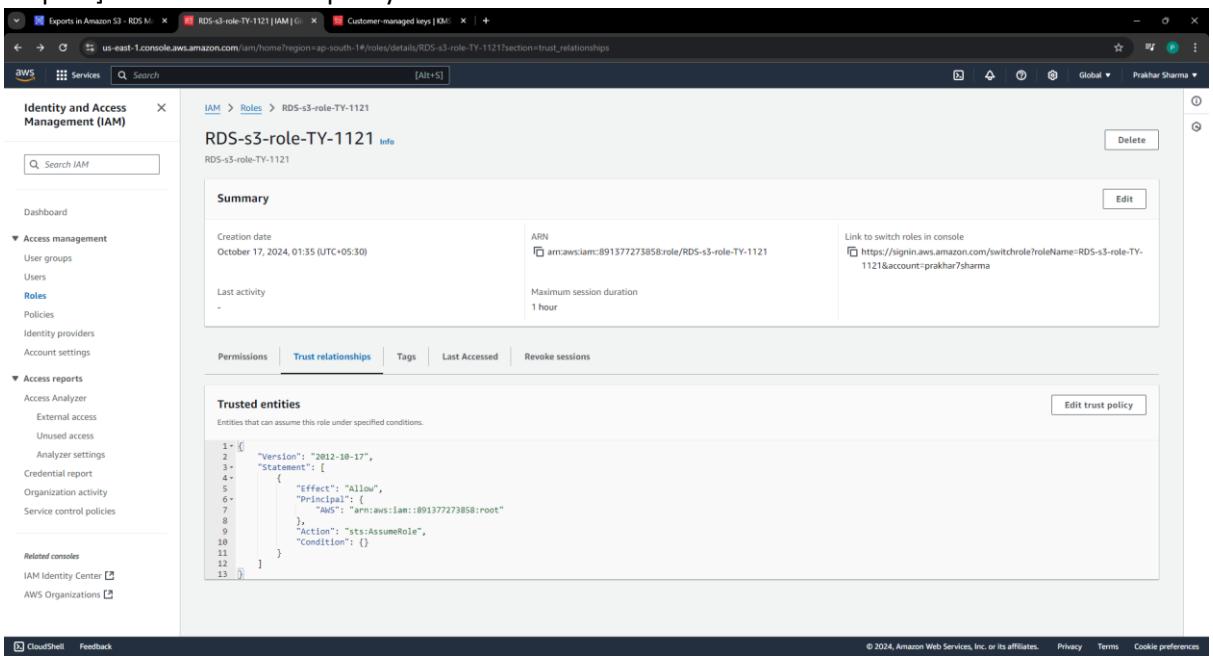
Step-43]Go to Trust relationships tab.

Step-44] Click on edit trust policy.



Step-45]In edit trust policy code, add this line below 7th line

- “Service”: “export.rds.amazonaws.com”

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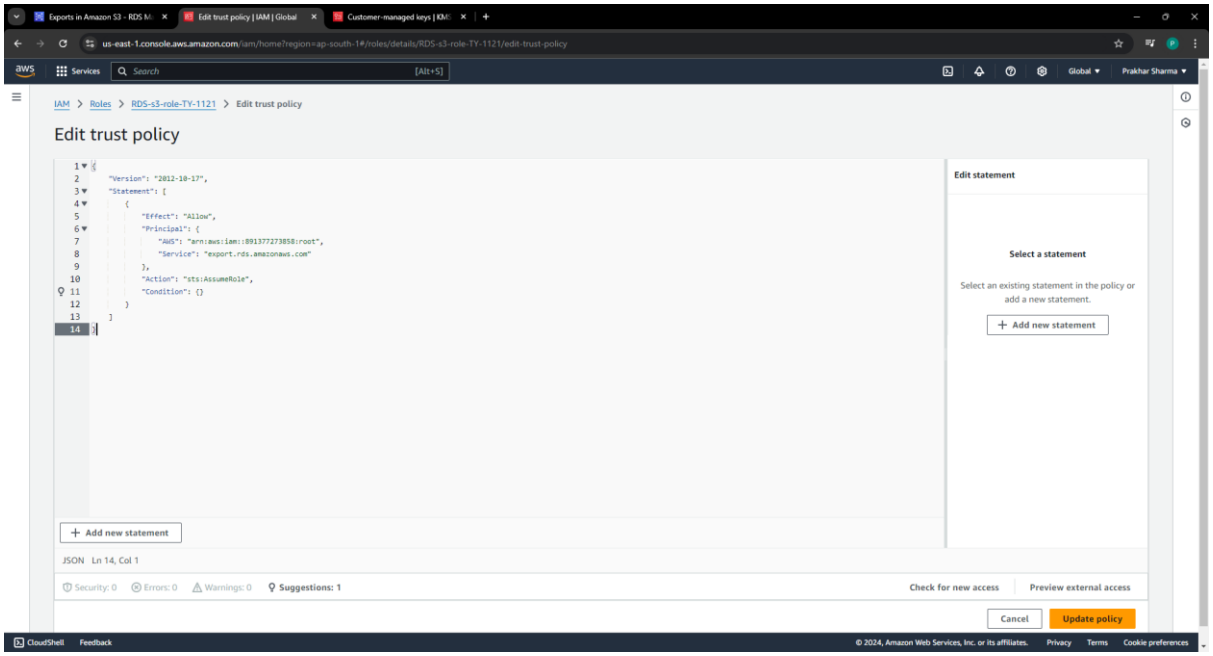
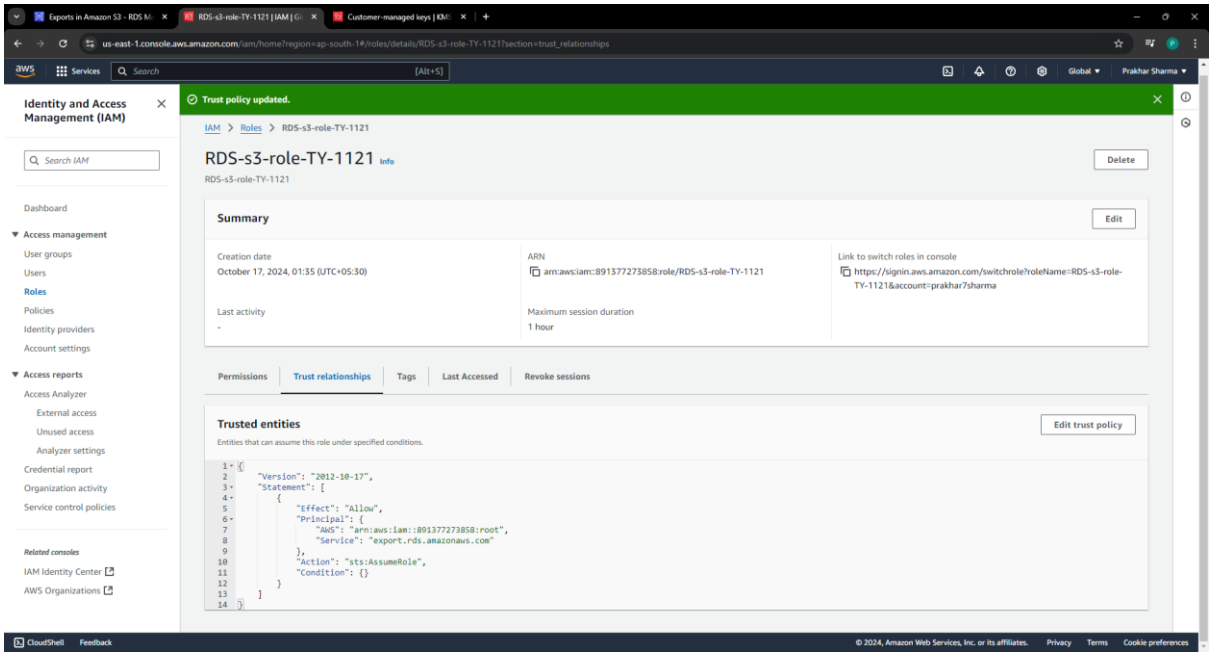
Step-46] Click on Update policy.





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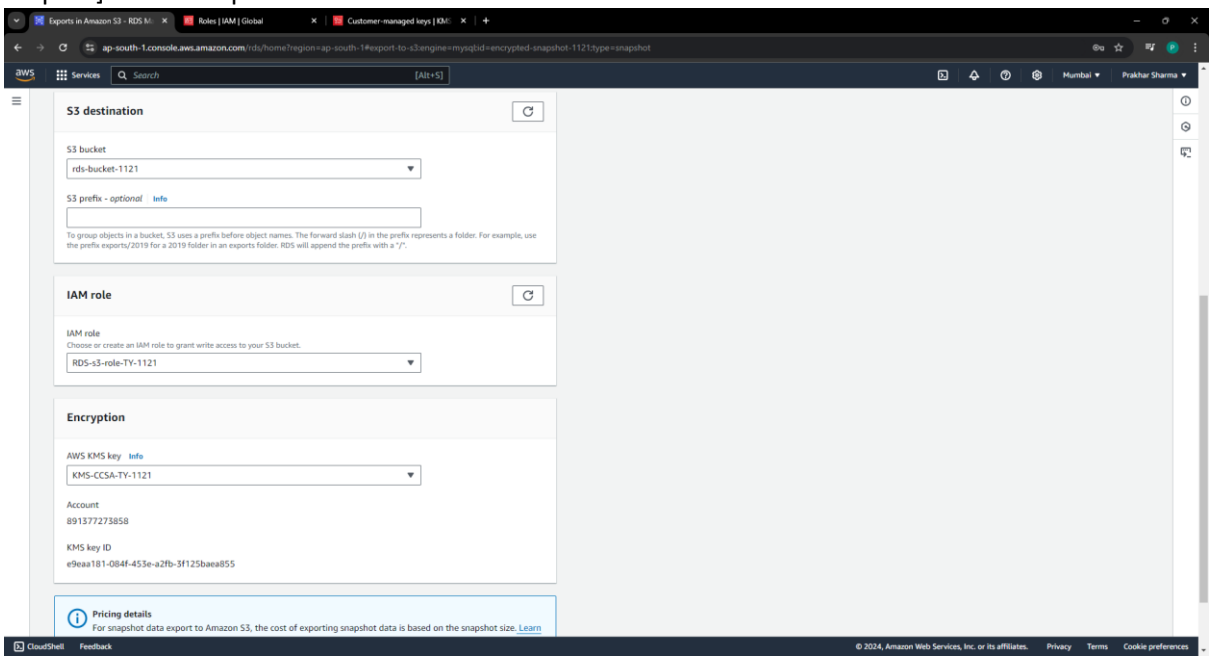
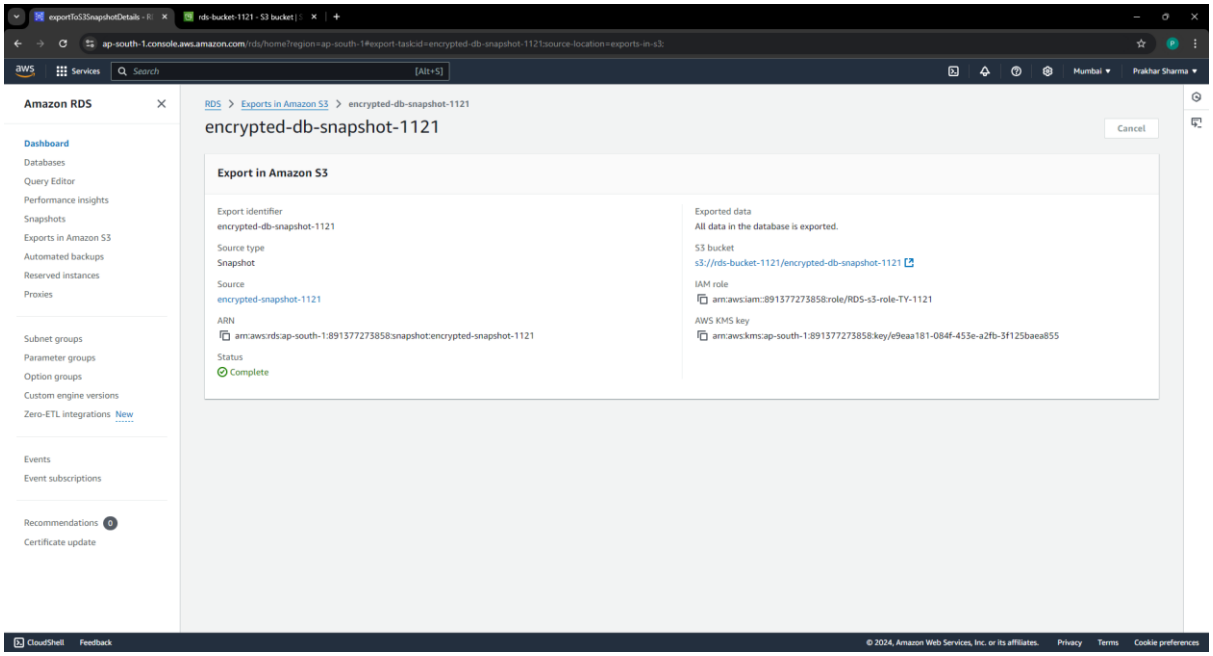
Now go back to the RDS Export to Amazon S3 Tab ,their you can see the error is gone.

Step-47]Click on Export to Amazon S3.



Wait till the status is Complete.



Step-48]Now Go to S3.
Step-49]Go to Buckets.
Step-50]Click on the RDS Bucket.
Step-51]Go to Objects tab.

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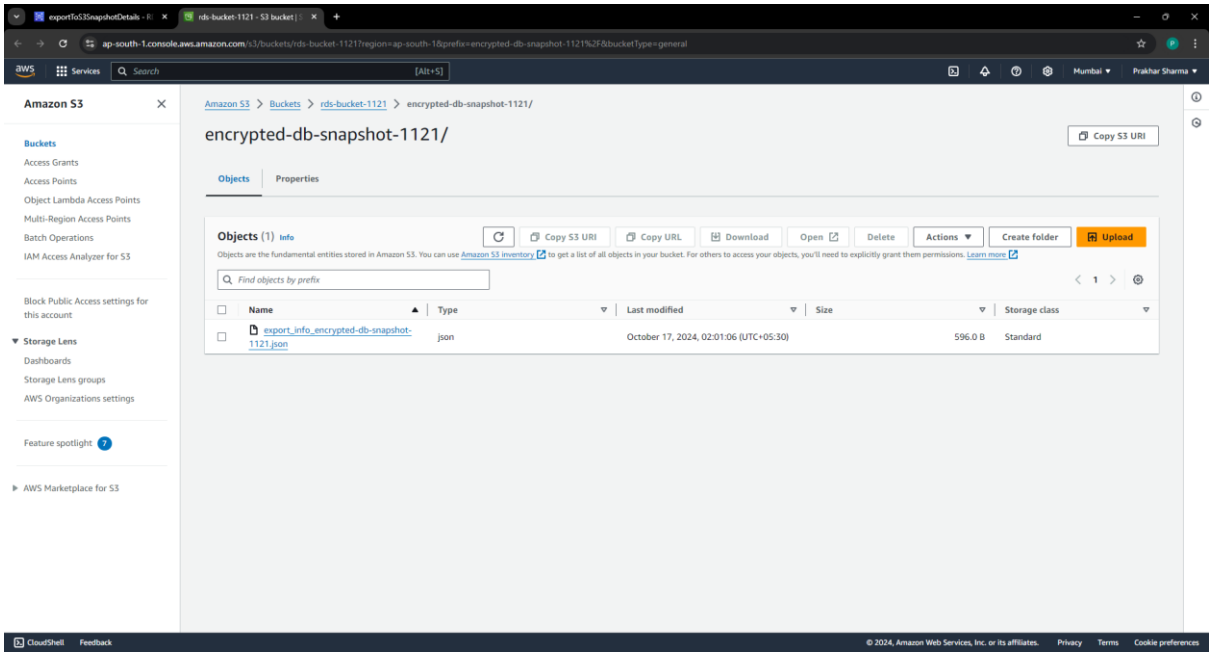
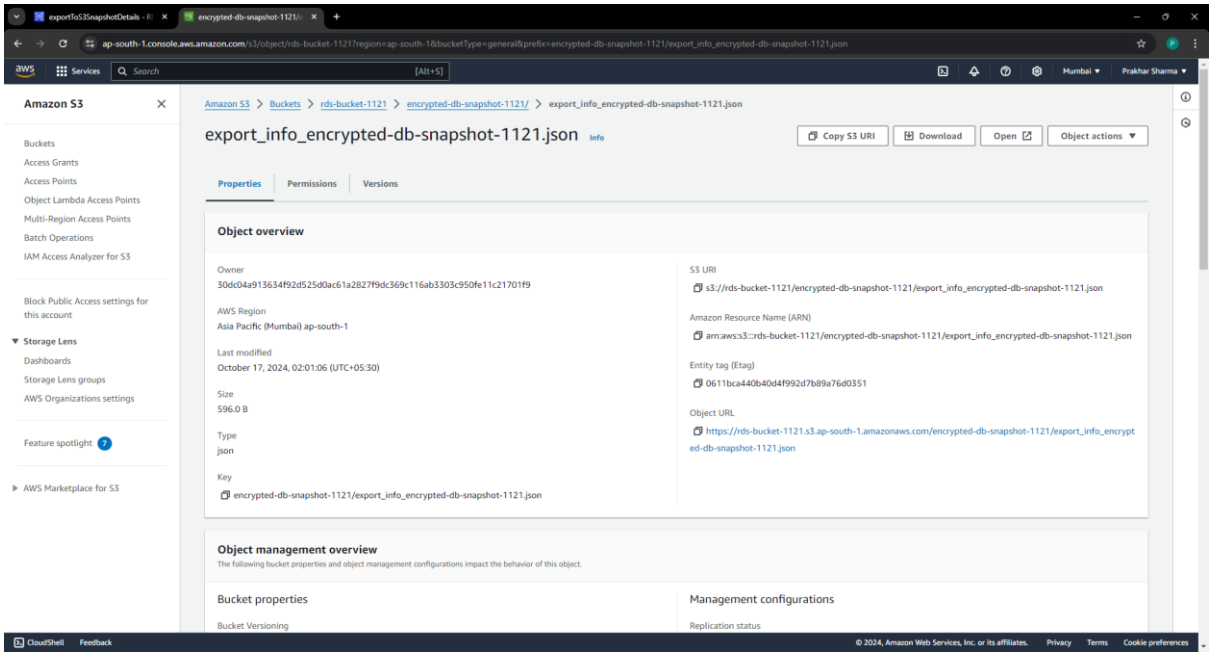
Their you can see one file of encrypted db snapshot is visible.



Step-52]Click on the file to see the details of the file in Properties.



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