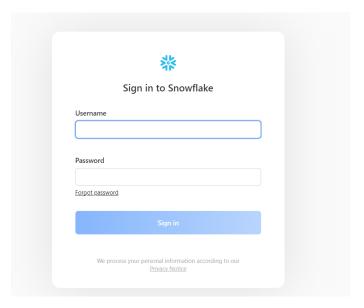
Integration of AWS with Snowflake

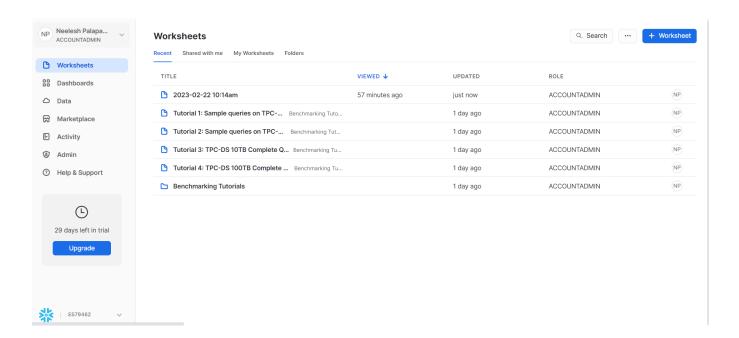
Neelesh Palaparthi

Documentation:

Step 1:

Login into snowflake account:



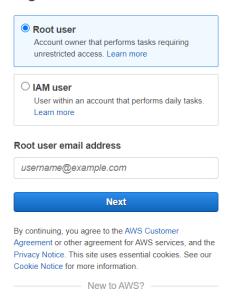


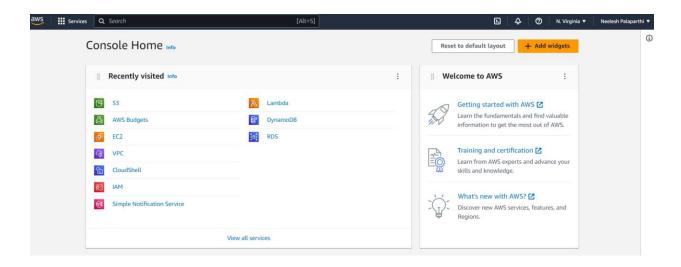
Step 2:

Login into AWS account by using Root user:



Sign in





2.1:

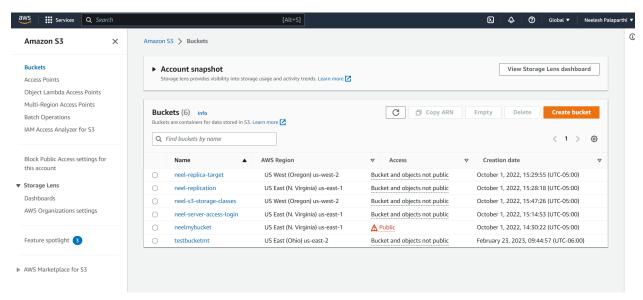
Create S3 Bucket:

Type S3 in the search bar and click on S3.



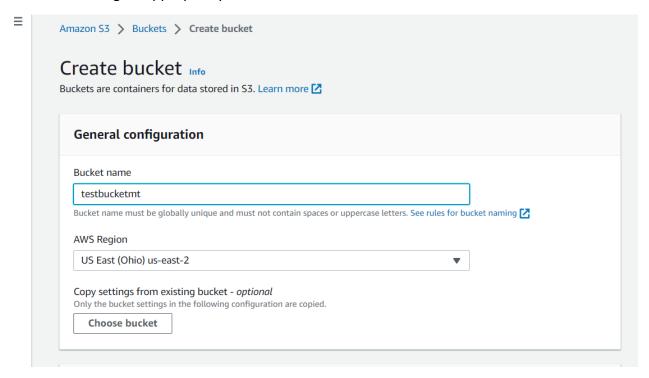
Create a new bucket:

Click on orange button to create new bucket.

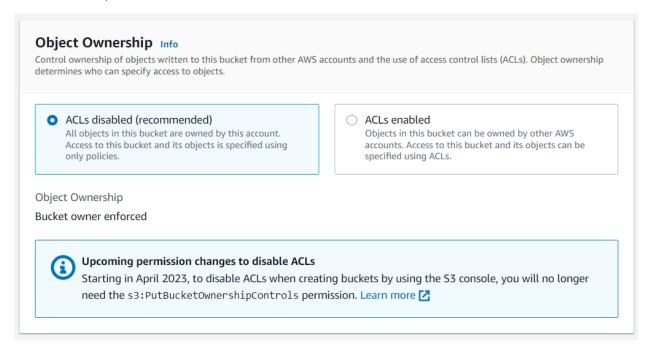


Give a name that is suitable for the project you are doing.

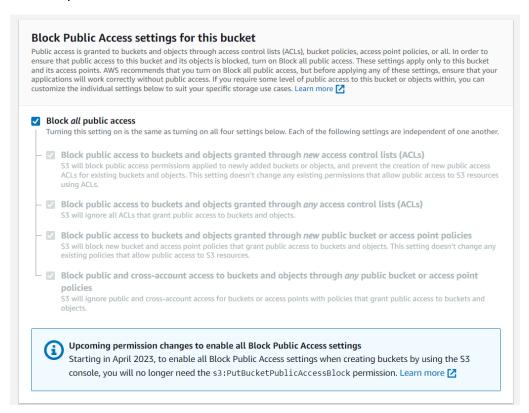
Choose Aws Region appropriatly.



Select these options.



Block all public access.

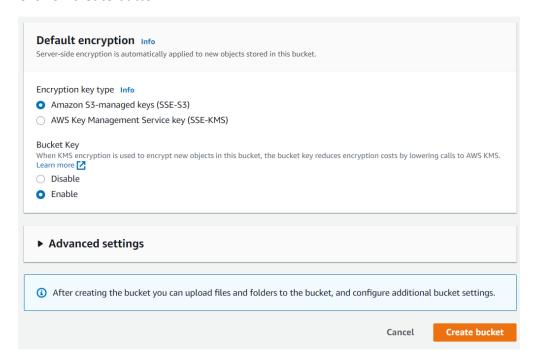


Disable bucket versioning

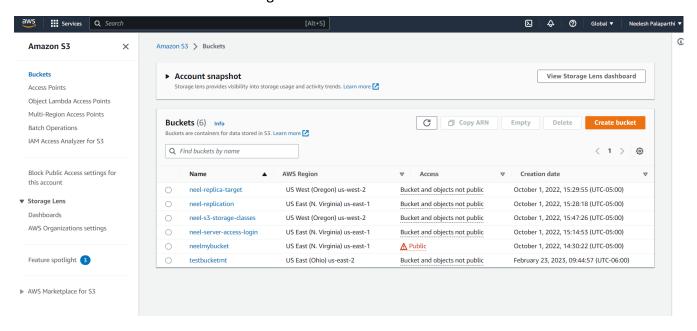
Bucket Versioning Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more Bucket Versioning Disable Enable Tags (0) - optional You can use bucket tags to track storage costs and organize buckets. Learn more No tags associated with this bucket. Add tag

Choose encryption type and enable the bucket key.

Click on create button.



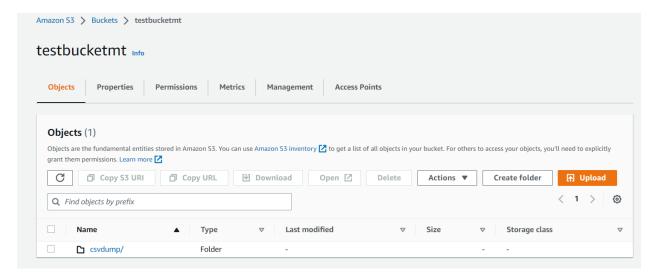
You can see the 'testbucketmt' bucket got created.



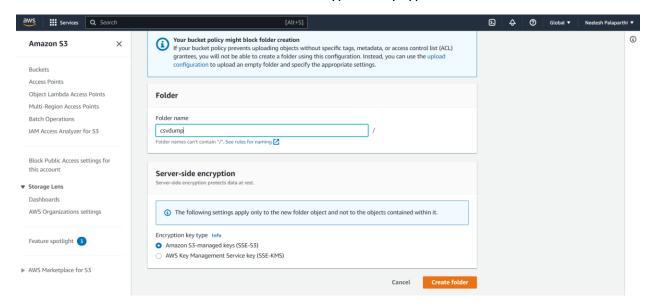
2.2 Create a folder inside s3 Bucket:

Click on the created bucket 'testbucketmt'.

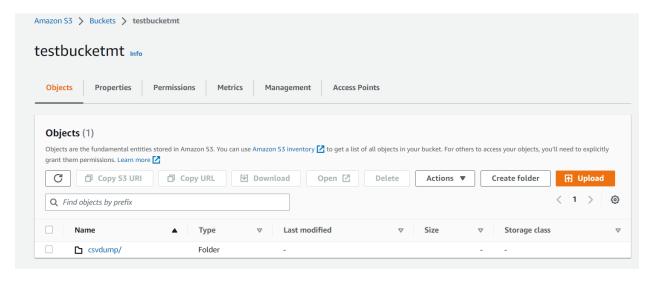
Click on create folder inside the bucket.



Write a name for the folder and choose the encryption key type and click create folder.



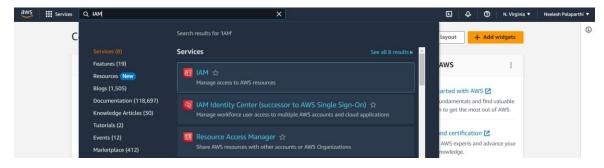
You can see folder is created in s3 bucket 'csvdump'.



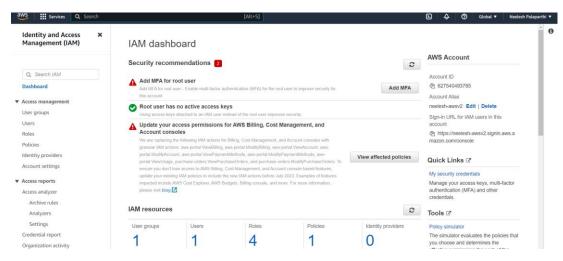
Step 3:

Creating IAM role:

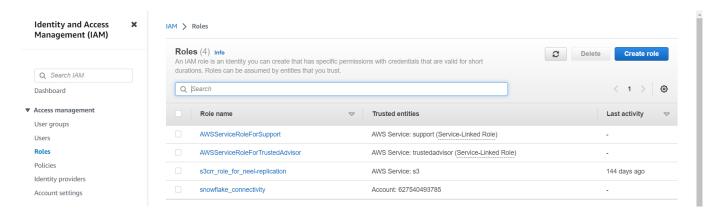
Type IAM in search bar and select IAM service.



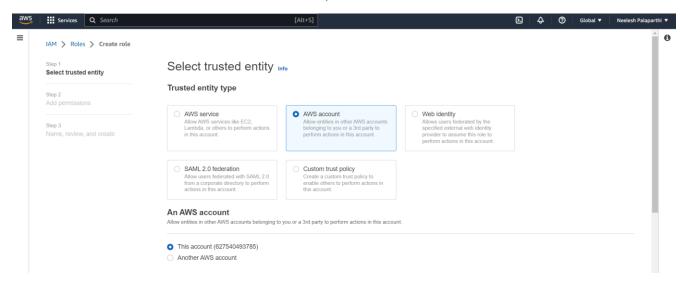
Click on the 'Roles' present on the left side.



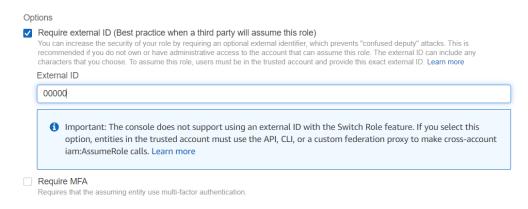
Create A new role by cliking on 'create role'.



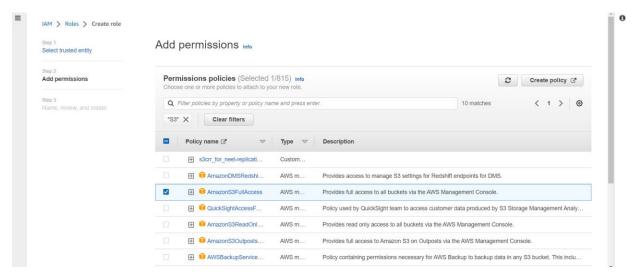
Click on AWS account and select 'this account' option.



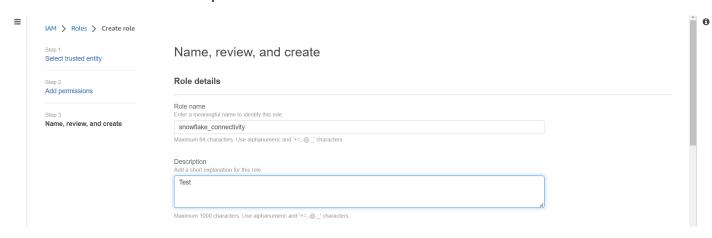
Click on Require external ID and write 5 zero's '00000' and click next.



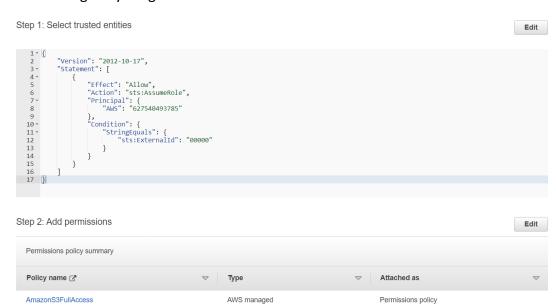
As we want to use S3 bucket with IAM service so we need to add permissions. click on space bar and type s3 and choose 'Amazon s3 full access option' and click next.



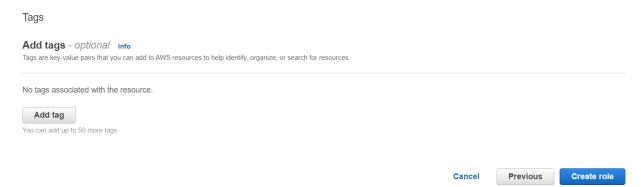
Write the role name and description.



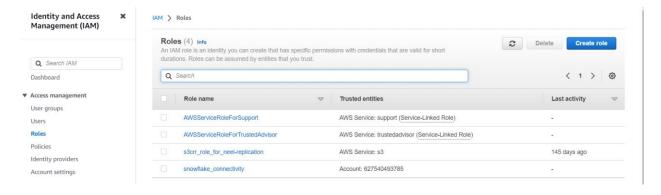
Don't change anything in the Json code.



Click on create role.



You can see a role is created 'snowflake_connectivity'.



Step 4:

Integrating AWS with Snowflake:

Open worksheet in snowflake and set role as account admin and run it.



Type the following command in worksheet and run it.

CREATE STORAGE INTEGRATION name

TYPE = EXTERNAL_STAGE

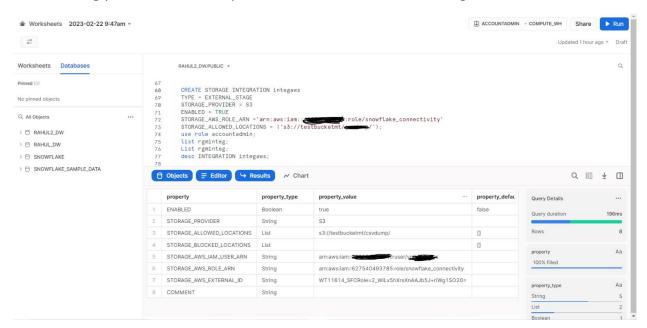
STORAGE_PROVIDER = S3

ENABLED = TRUE

STORAGE_AWS_ROLE_ARN = ' '

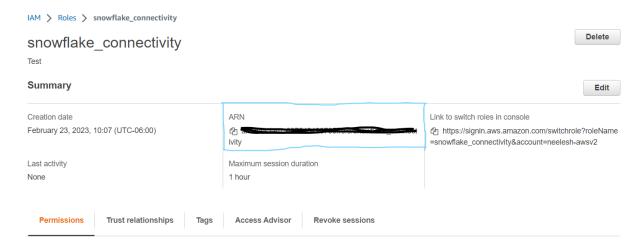
STORAGE_ALLOWED_LOCATIONS = (' ');

After running you can see the output which will be similar to the image below.



STORAGE_AWS_ROLE_ARN = ' '

For this, go to IAM service and select the created role and there copy that ARN and paste it in above quotations.



STORAGE_ALLOWED_LOCATIONS = (' ');

For this click the s3 bucket and go inside folder and select folder and there,

Copy the url in highlighted blue box and paste it inside the above command.

