CREATE INTEGRATION OBJECT

1. GOALS

In this assignment, we will create integration object. Integration object helps to make secure connection from snowflake to aws s3.

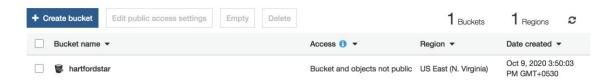
Prerequisites,

AWS Free tier account.

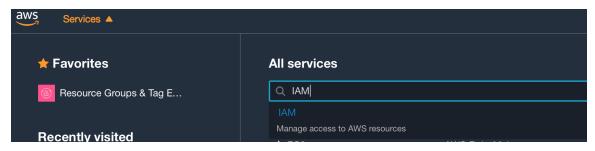
Clink on below clink and create aws free tier account.

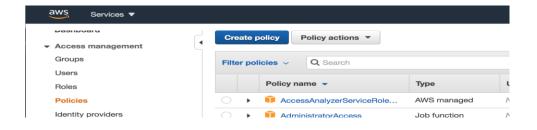
2. CREATE AWS S3 BUCKET

Search for s3 in search panel and create bucket as below,



3. CREATE POLICY





Add policy in the json tab.

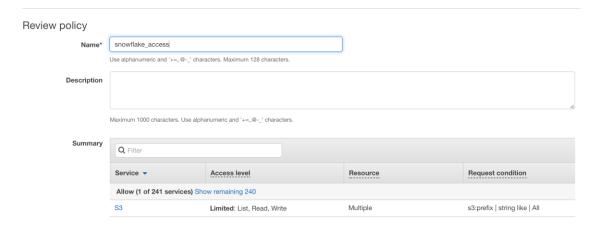
Please find the attached policy below,

```
Visual editor JSON
                                                                                        Import managed policy
  2
3 •
4 •
5
        "Version": "2012-10-17", "Statement": [
           {
               "Effect": "Allow",
"Action": [
                "s3:PutObject",
"s3:GetObject",
                "s3:GetObjectVersion",
               "s3:DeleteObjectVersion"
               "Resource": "arn:aws:s3:::<bucket>/<prefix>/*"
               "Effect": "Allow".
"Version": "2012-10-17",
"Statement": [
  "Effect": "Allow",
  "Action": [
   "s3:PutObject",
  "s3:GetObject",
  "s3:GetObjectVersion",
  "s3:DeleteObject",
  "s3:DeleteObjectVersion"
"Resource": "arn:aws:s3:::<bucket>/<prefix>/*"
    "Effect": "Allow",
     "Action": "s3:ListBucket",
    "Resource": "arn:aws:s3:::<bucket>",
  "Condition": {
   "StringLike": {
     "s3:prefix": [
      "<prefix>/*"
```



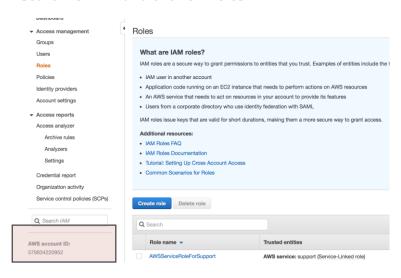
Name the policy and create it,

I am naming policy as, snowflake_access

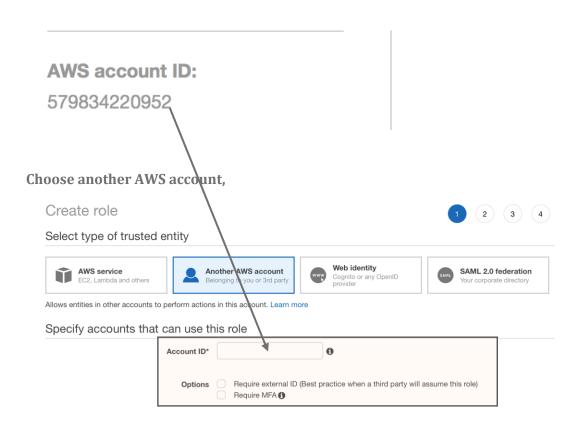


4. CREATE ROLE

Search for IAM and click on Roles.

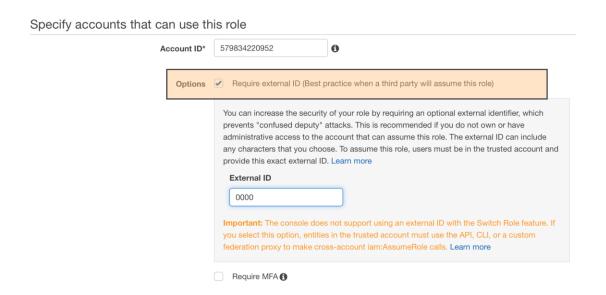


Note down your AWS account id,



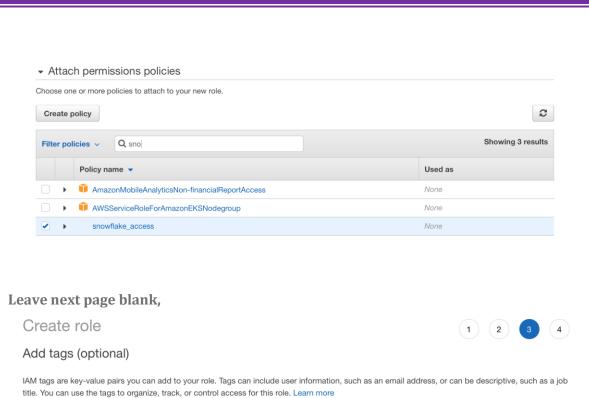
Fill Account ID in the, Account ID test box.

Choose external id check box to add snowflake external id.



For time being we will fill external Id as 0000.

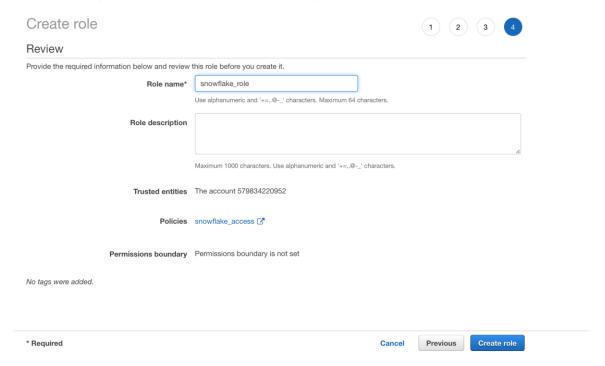
Click on next and choose the policy we created in the previous step,



Remove

Click on next, to create role. Name the role as, snowflake_role.

Value (optional)



Key

Add new key

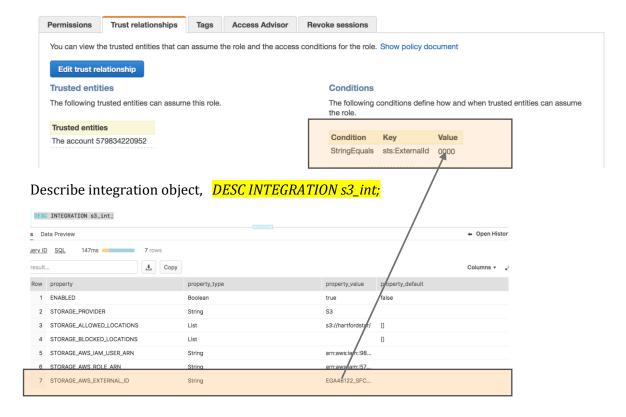
You can add 50 more tags.

5. CREATE INTEGRATION OBJECT

Login to snowflake. Execute below command to create integration object.

create or replace storage integration s3_int type = external_stage storage_provider = s3 enabled = true storage_aws_role_arn = 'arn:aws:iam::579834220952:role/snowflake_role' storage_allowed_locations = ('s3://hartfordstar/'); CHAN ▼ Global ▼ aws Services ▼ Roles > snowflake_role **Identity and Access** Management (IAM) Summary arn:aws:iam::579834220952:role/snowflake_role Dashboard Role ARN Role description ▼ Access management Instance Profile ARNs Path Creation time 2020-10-09 16:35 UTC+0530 Policies Last activity Not accessed in the tracking period Identity providers Maximum session duration 1 hour Edit

Add snowflake external id to aws s3. In below image external id is not updated,



Click on,

TOU OUT TIOTS ATO A MOTOR OTHEROO MICE OUT MOOUTH

Edit trust relationship

Trusted entities

Update trust relationship as below,

