1. IAM role:

Create role should be created with the included policy of s3 bucket full access or include the create a policy with customized JSON code to add necessary permissions.

{

"Version": "2012-10-17",

"Statement": [

{

"Effect": "Allow",

"Action": [

"s3:PutObject",

"s3:GetObject",

"s3:GetObjectVersion",

"s3:DeleteObject",

"s3:DeleteObjectVersion"

],

"Resource": "**S3 bucket folder URL \***"

},

{

"Effect": "Allow",

"Action": "s3:ListBucket",

"Resource": "**S3 bucket arn**",

"Condition": {

"StringLike": {

"s3:prefix": [

"**s3 bucket final folder name where data to be stored\***"

]

}

}

}

]

}

And include a trust policy which is used during snowflake execution

1. S3:

Create a bucket and create folders in it to load data.

1. Snowflake:
   1. Without pipe:

* Create the table code available in the code folder **“Load data from Cloud Providers”**
* In this method I have not used pipe I have directly used the S3 bucket URL and its secret key and tried loading data (but this is not a recommended procedure)
* Before loading data first we need to create a staging where we load the raw data and then we transfer data staging 🡪 table using copy command.
  1. Without pipe:
* In this method instead of using a secret key I have created integration storage that will be giving metrics of the S3 bucket like Type of stage, Storage provider, Storage role arn, and URL of the S3 bucket then we follow the staging process of data transfer but this and the above method does not imply for live streaming of data from s3.
  1. With Pipe:
* In this method pipe is created for data streaming which is connected to the stage. Data will loaded from s3 🡪 pipe 🡪 stage 🡪 table.
* The pipe will be live if any files get added to the S3 bucket to the folder where data is been sucked then new files will be added to snow table.