Experiment 5

Automation and Optimization with Amazon S3

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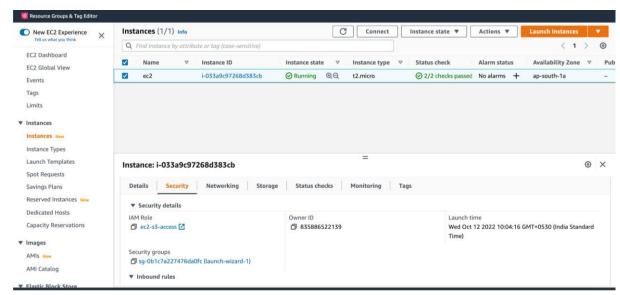
Reg No: RA2011028010089

Aim: Automate Files backup to AWS S3 bucket on Linux machine.

Procedure: -

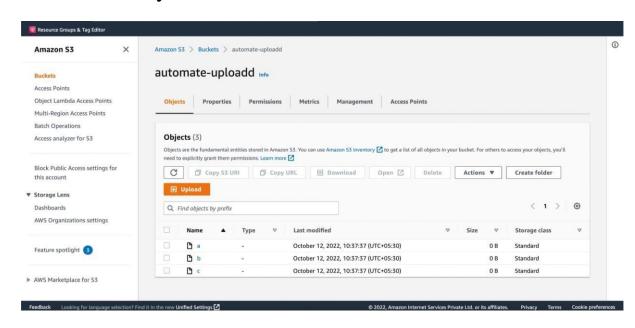
Steps:

- 1. Create a S3 bucket.
- 2. Create a EC2 instance.
- 3. Give EC2 instance Role to access S3.



- (Or you may also grant access to your local Linux machine using aws configure cmd and entering your IAM user credentials over there)
 - 1. Connect to your EC2 instance CLI.
 - 2. Type "sudo su" to give access root directory.
 - 3. Create a directory "backup". Type: mkdir backup 4. Go inside the "backup" directory.
 - 5. Make some test files. Type: touch a

9. List Them by Cmd-ls



Now to sync these files of backup directory on the S3 bucket. Cmd: aws s3 sync local file path s3://bucketname

11. Now, we are going to create a cron job in order to automate this process. Cmd: crontab -e

Enter the cmd: cron code aws s3 sync /directory s3://bucketname

For e.g.: cron code for 1 min is * * * * *

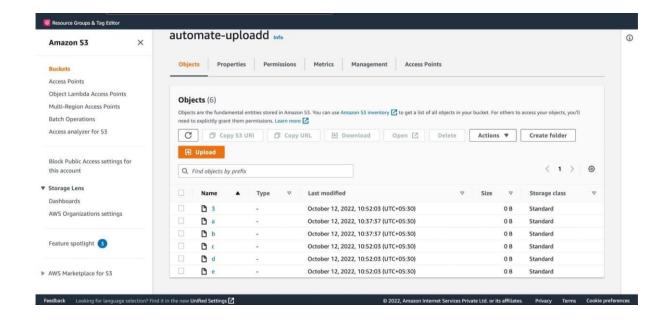
(you may use crontab.guru to create your own job expression)

URL: https://crontab.guru/

Restart the Crond service

Run "systemctl restart/stop/start cornd.service" to restart/stop/start your cron jobs respectively.

- 12. Now, we are going to create some test files to check if they are uploaded every minute or not.
- 13. File d and file e have been updated.



Result:

We have successfully automated our local files/directory backup on Amazon S3 buckets using crontab.