Experiment 5

Automation and Optimization with Amazon S3

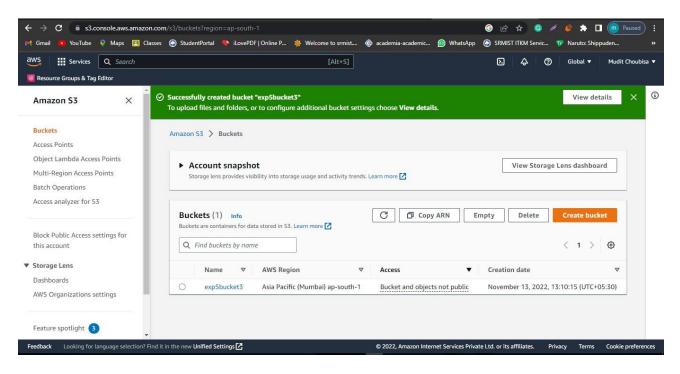
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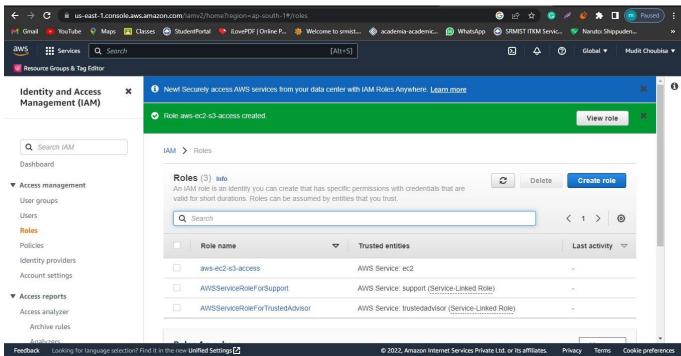
Aim: Automate Files backup to aws S3 bucket on Linux machine.

Procedure:

Steps:

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

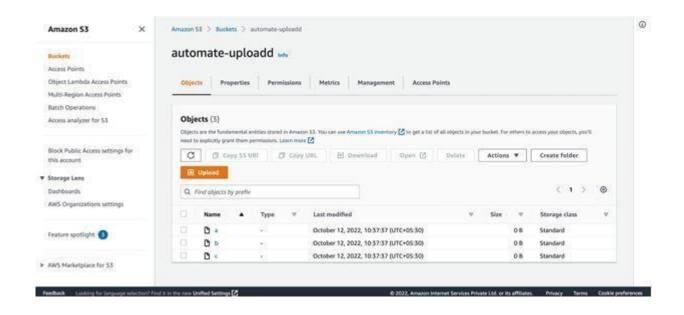




(or you may also grant access to your local linux machine using aws configure cmd and entering your IAM user credentials over there)

- 4. Connect to your EC2 instance CLI. 5. Type "sudo su" to give access root directory.
- 6. Create a directory "backup". Type: mkdir backup
- 7. Go inside the "backup" directory.
- 8. Make some test files. Type: touch a

9. List Them By Cmd-Is



Now to sync these files of backup directory on the S3 bucket. Cmd: aws s3 sync localfilepath 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

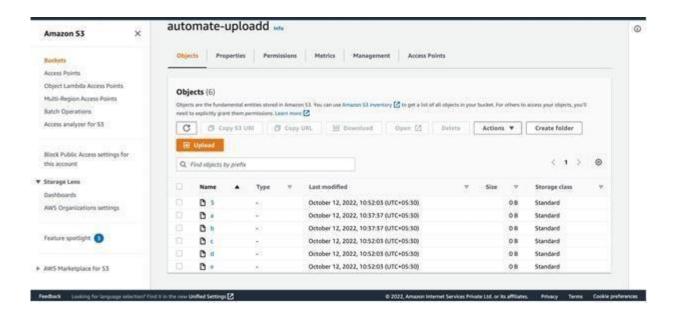
For e.g.: cron code for 1 min is * * * * *

(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.

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



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