Experiment: 5

Title: Automation and Optimization with Amazon S3

Aim: Automate Files backup to aws S3 bucket on Linux

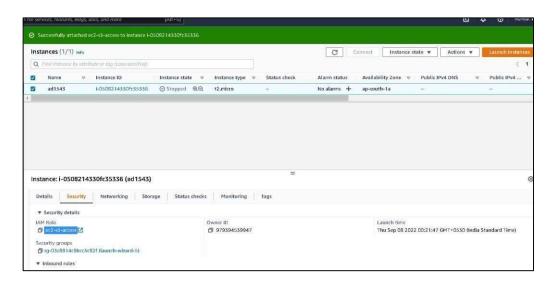
machine. Pre-requisites: AWS Console, Amazon S3, crontab,

aws cli

Procedure:

Steps:

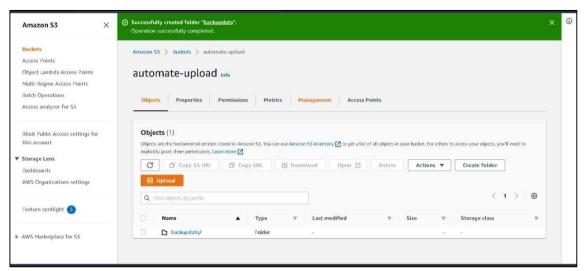
- 1. Create a S3 bucket.
- 2. Create a EC2 instance.
- 3. Give EC2 instance Role to access S3.



(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.

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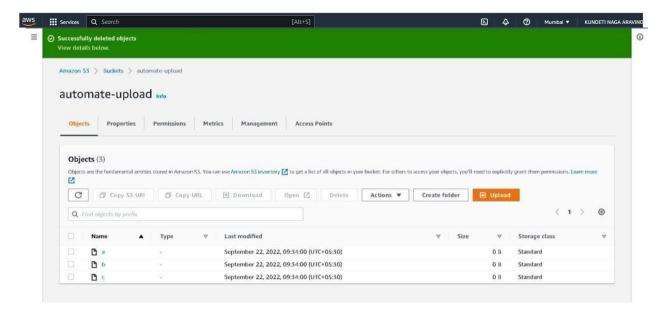
6. Create a directory "backup".

Type: mkdir backup

- 7. Go inside the "backup" directory.
- 8. Make some test files. Type: touch a

```
| Ignor 85: p-17:-31-32-239 ec2-user| awa s3 is automate-upload | PRE-part-s1-32-239 backup| of touch a | PRE-part-s1-32-239 backup| of touch a | PRE-part-s1-32-339 backup| of touch a | PRE-part-s1-32-
```

9. List them by cmd - ls



- 10. 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/

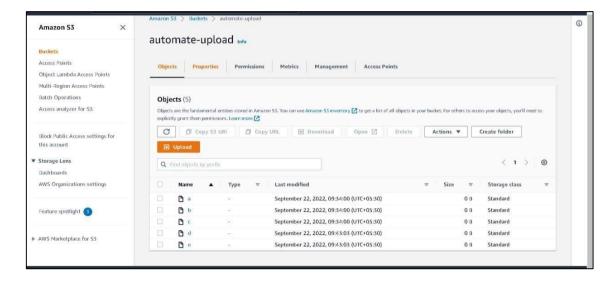


```
| Toordisp-72-31-32-239 backup| & touch a | Toordisp-72-31-32-239 backup| & touch b | Toordisp-72-31-32-239 backup| & touch c | Toordisp-72-31-32-32-329 backup| & touch c | Toordisp-72-31-32-32-33 backup| & touch c | Toordisp-72-31-32-32-33 backup| & touch c | Toordisp-72-31-32-32-33 backup| & touch c | Toordisp-72-31-32-33 backup| & touch c | Toordisp-72-3
```

12. 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.

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