

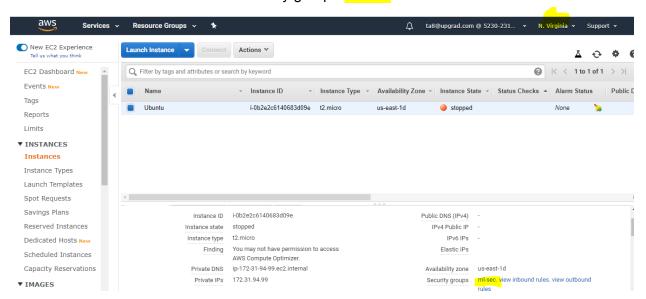


# **Guidelines for creating Roles in AWS**

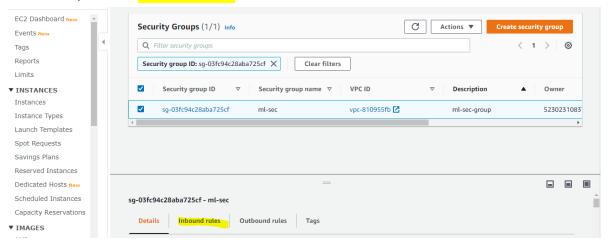
Case: Creating a role for accessing S3 bucket from EC2 instance

## Prerequisites:

- S3 bucket and EC2 instance should be the same region N. Virginia.
- S3 bucket should be available in your account.
- 1. Edit the security group with my IP before starting the EC2 instance.
- Select EC2 and click on the security group ml-sec



3. Next, click on **Inbound rules**:

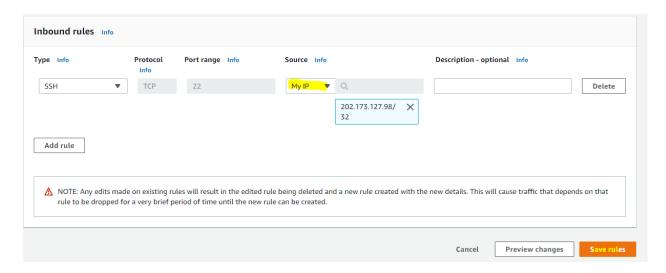




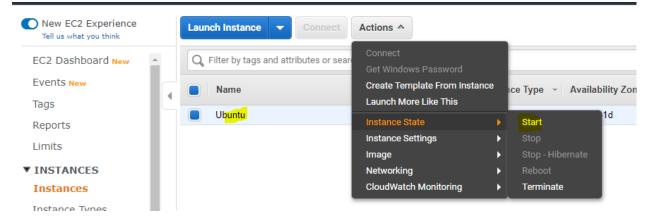
4. Click on **Edit inbound rules**:

Inbound rules		Ed <mark>it inbound rules</mark>

5. Edit source with My IP and click on Save rules.

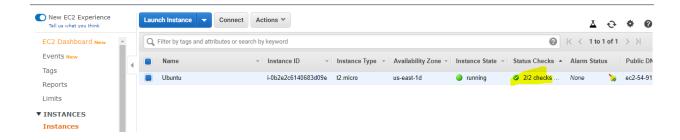


6. Navigate back to the EC2 dashboard and start the EC2 instance.









7. Then, access the EC2 instance from PuTTy or Linux/MAC shell.

```
Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
 * Support:
                 https://ubuntu.com/advantage
 System information disabled due to load higher than 1.0
 * Kubernetes 1.18 GA is now available! See https://microk8s.io for docs or
  install it with:
    sudo snap install microk8s --channel=1.18 --classic
 * Multipass 1.1 adds proxy support for developers behind enterprise
  firewalls. Rapid prototyping for cloud operations just got easier.
    https://multipass.run/
49 packages can be updated.
22 updates are security updates.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-94-99:~$
```

8. Run below command and access s3 bucket from instance.

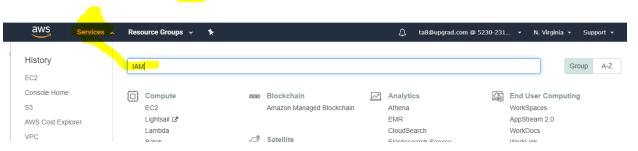
sudo apt-get update sudo apt-get install awscli



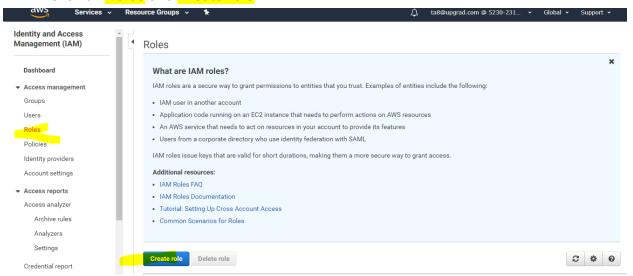
#### 9. Enter aws s3 ls

```
ubuntu@ip-172-31-94-99:~$ aws s3 1s
Unable to locate credentials. You can configure credentials by running "aws configure".
ubuntu@ip-172-31-94-99:~$
```

10. Presently, you are not able to access the bucket. Go back to the AWS management console and search for the **IAM** service.

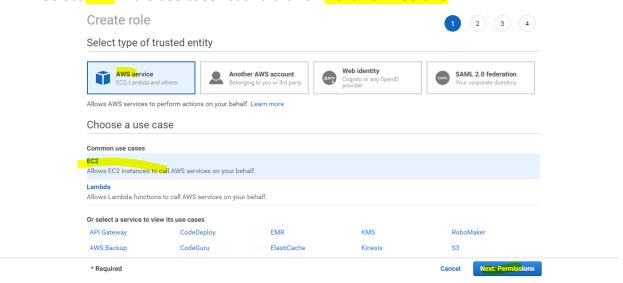


11. Click on Roles and Create role.



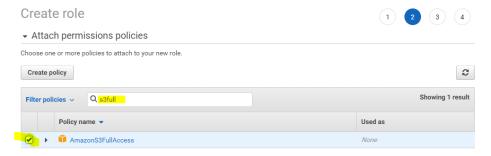


12. Select **EC2** in the use case list and click on **Next Permissions**.



13. In the search tab, search policy s3full and select the checkbox for AmazonS3full access.

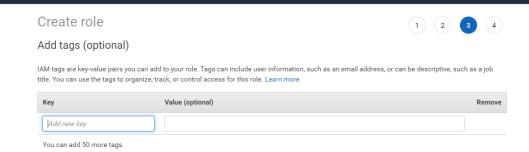
## Policy-AmazonS3FullAccess



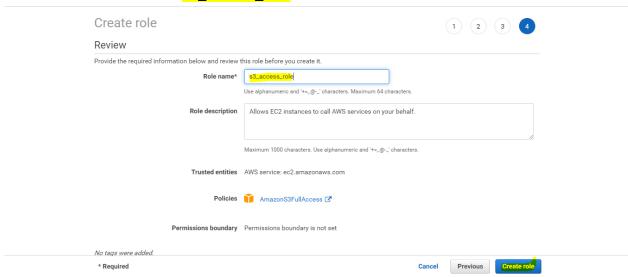
14. Click on Next numbered tab



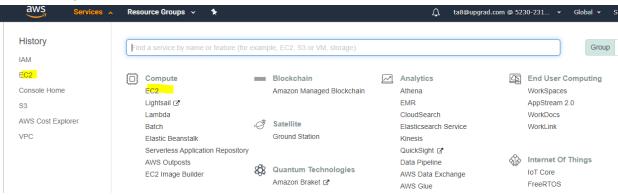




#### 15. Give the role name: **s3\_access\_role** and click on create role.

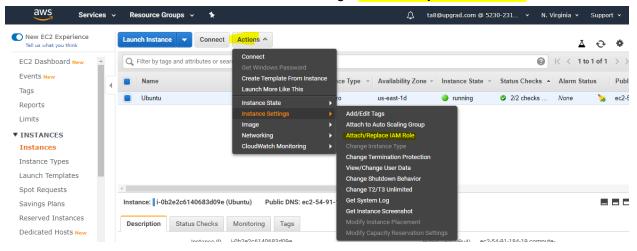


# 16. Navigate back to the EC2 service.

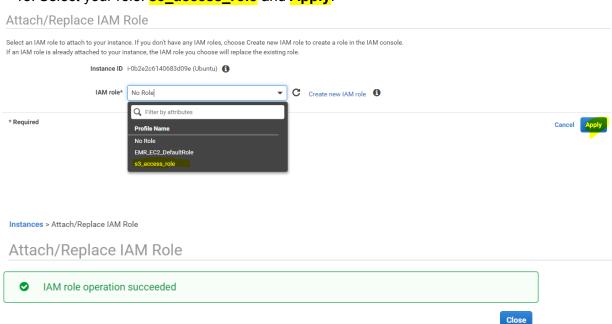




#### 17. Go to EC2 instance > Action > instance setting > Attach/Replace IAM role



## 18. Select your role: <a href="mailto:s3\_access\_role">s3\_access\_role</a> and <a href="mailto:Apply">Apply</a>.



19. Switch back to the instance terminal.





```
ubuntu@ip-172-31-94-99:~$ aws s3 ls

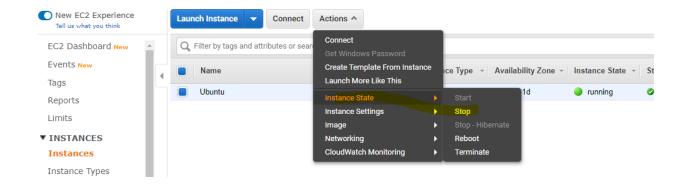
2020-01-23 06:08:10 test-agaw

2020-04-08 06:00:58 upgrad-123

ubuntu@ip-172-31-94-99:~$
```

You can view the contents of the S3 bucket now.

**Note:** Please stop the instance when not in use or save the budget. If the instance is no longer required, terminate the instance.



Please verify the instance status - Stopped with Red.