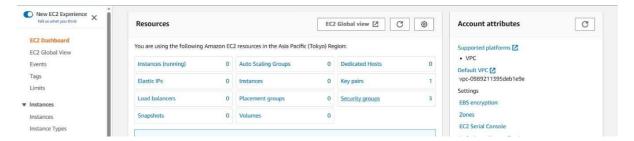
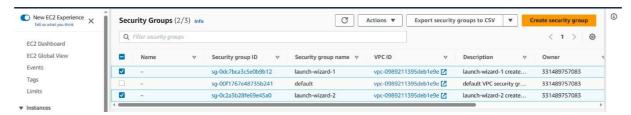
AWS-10

Deploy project from GitHub to EC2 by creating newsecurity group and user data.

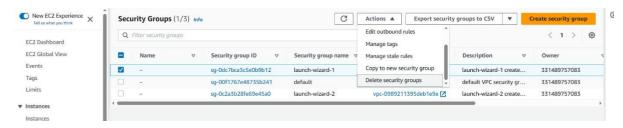
- 1. Sign in to your GitHub account.
- 2. Then sign in to aws account then click EC2.
- 3. Then click on Security groups.



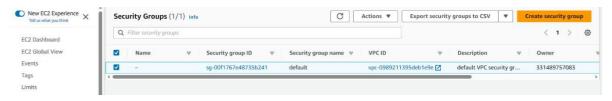
4. Then select all the security groups except the default one .



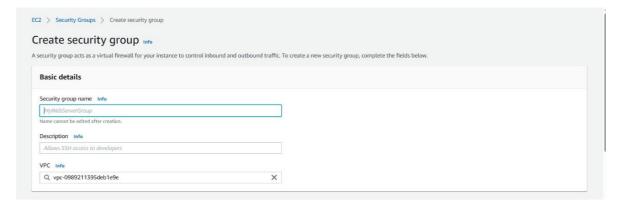
5. Then go to Action and then click on Delete security groups.



6. Then click on Create security group.

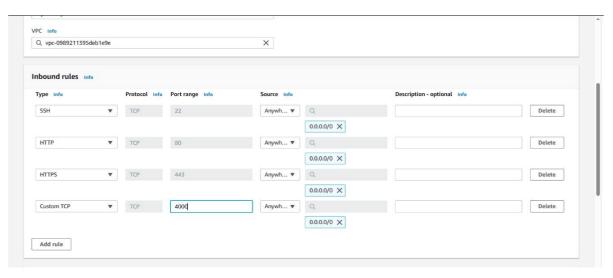


7. Then enter Security group name and Description.

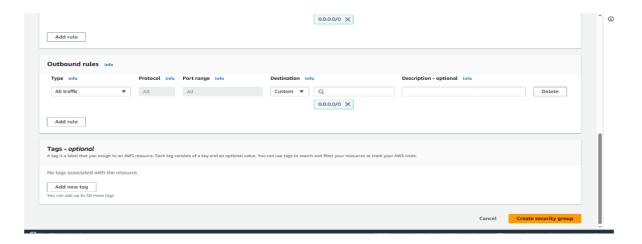


8. Then Add rule in the Inbound rules section.

Then click on Add rule and select type as SSH, HTTP, HTTPS and Custom TCP and port range of Custom TCP as 4000 and then select source as 0.0.0.0/0 for all the types.

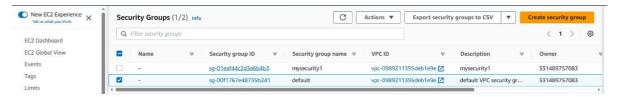


9. Then do not add any rule in the Outbound rules and click on Create security groups. Then Security group was created successfully .

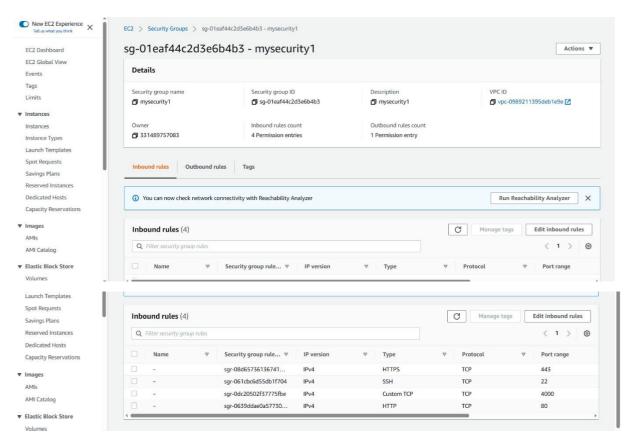




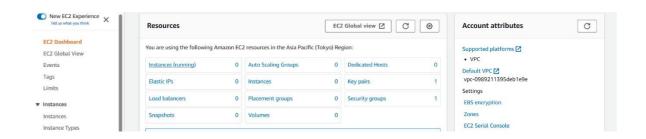
10. Then click on security group ID of that security group which you were created.



11. Then all details of security group is display and also Inbound rule which we were added.



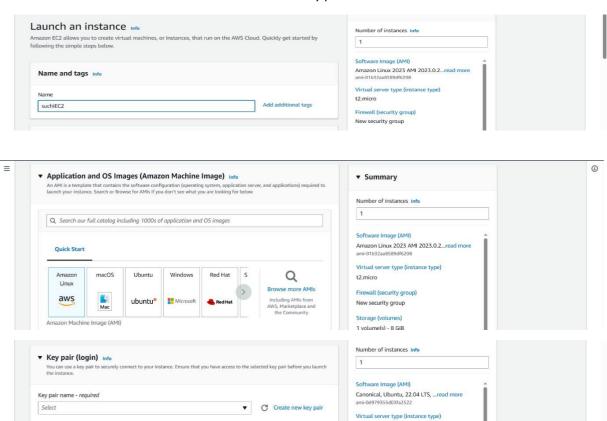
12. Then go to EC2 Dashboard and click on Instances(running).



13. Then click on Launch Instances.

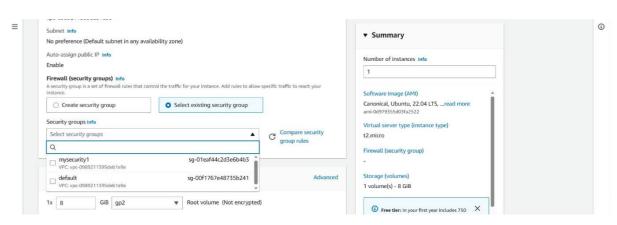


14. Then enter name and select Ubuntu then enter key pair.



15. Then click on Select existing security group and then select security group which you were created.

t2.micro



16. Then click on Advanced details

```
► Advanced details Info
```

17. scroll down and then in User data write some command

#!/bin/bash

apt-get update

apt-get install -y nginx

systemctl start nginx

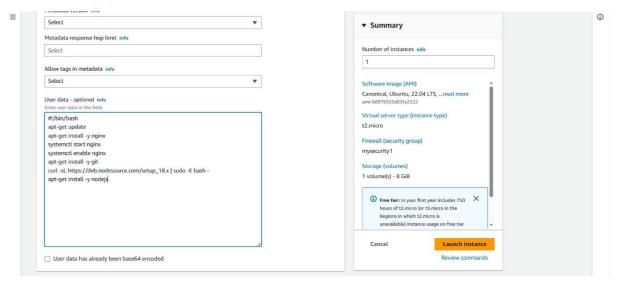
systemctl enable nginx

apt-get install -y git

curl -sL https://deb.nodesource.com/setup_18.x | sudo -E bash -

apt-get install -y nodejs

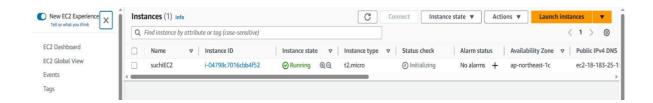
Then click on Launch Instance.



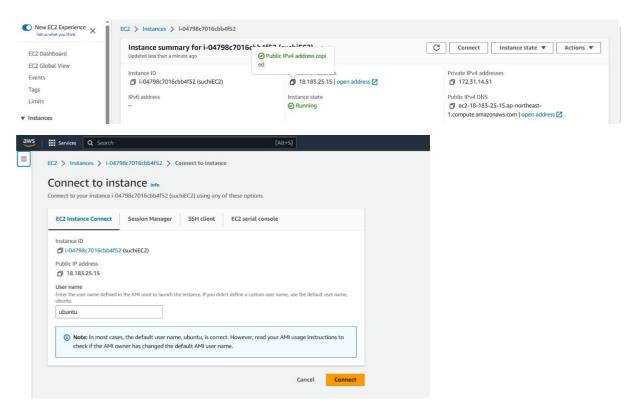
18. Then successfully Instance created.



19. Then click on Instance ID .



20. Then click on Connect.



21. Then EC2 instance connected and console is open then write some command git clone and paste HTTPS link which you copied, Give your Username of GitHub when asked. Give your account Token when your Password is asked.

```
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.

See https://ubuntu.com/esm or run: sudo pro status

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 WAREANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo ccommands".

See "man sudo_root" for details.

ubuntu8ip-172-31-14-51:-$ git clone https://github.com/kumari-suchi/MyRep2.git
Cloning into 'MyRep2'...

Username for 'https://sumari-suchi@github.com':
remote: Thitps://sumari-suchi@github.com':
remote: Enumerating objects: 110% (11/11), done.
remote: Compressing objects: 100% (8/8), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 11 (delta 2), reused 5 (delta 0), pack-reused 0
Recolving objects: 100% (11/11), done.
Recol
```

22. Then write command on

console cd YourRepositoryname/

npm install

node index.js

```
Recolving objects: 100% (11/11), done.
Recolving deltas: 100% (2/2), done.
shuntu8iy-172-31-14-51:-5 dir
WyRep2
shuntu8iy-172-31-14-51:-7 deltas: 100% (2/2), done.
shuntu8iy-172-31-14-51:-7 deltas: 100%, is package. json
shuntu8iy-172-31-14-51:-7 deltas: 100%, is package.
shuntu8iy-172-31 deltas: 100%, is package.
s
```

23. Then go to instance and copy the public IPv4 address.



24. Then paste it to another browser.



25. Now append the port no. 4000 to the IP address in the browser with a ":" sign.

We have successfully Deployed a project from GitHub to EC2 by creating a new Security group and User Data

