Experiment 1

AWS solutions

Ayush Raj

22BRS1117

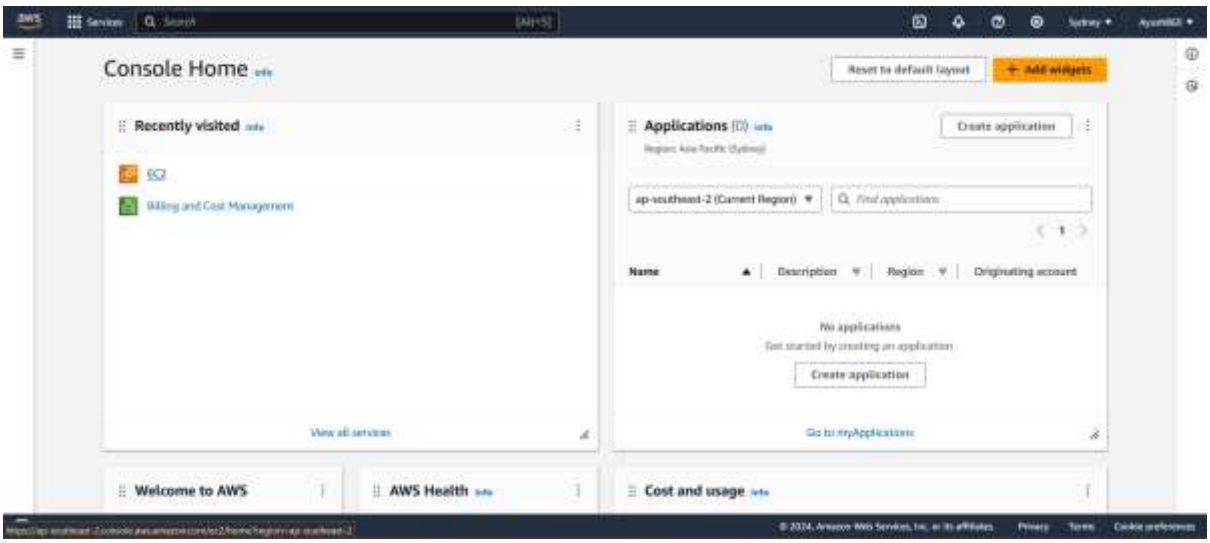
B2 tb2

Aim : create an ec2 instance and connect and launch an application

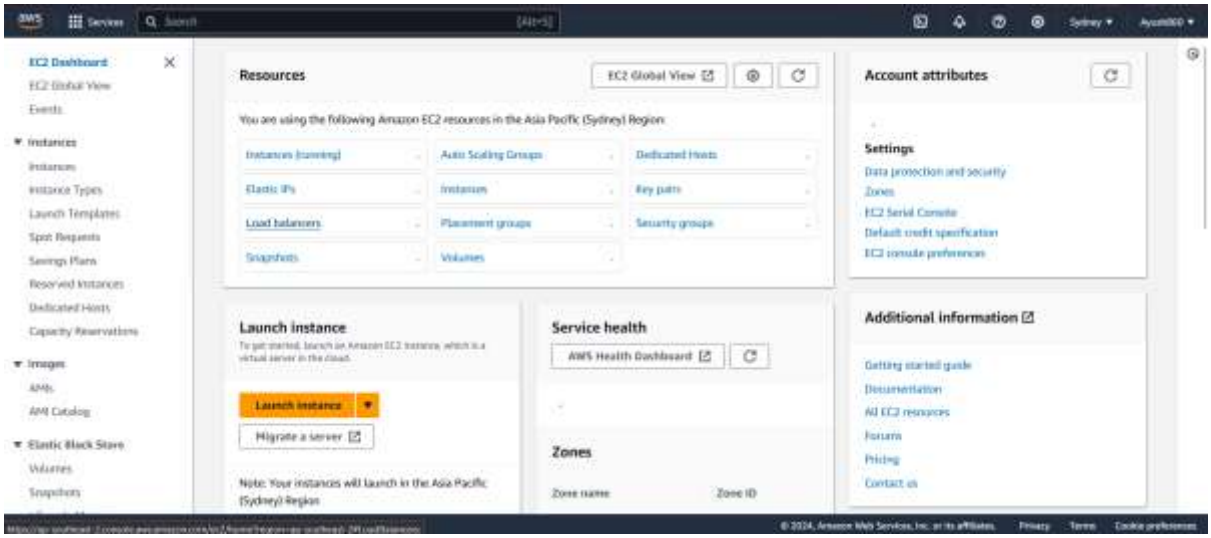
Procedure :

1. First we created an AWS account
2. Next we followed the following steps

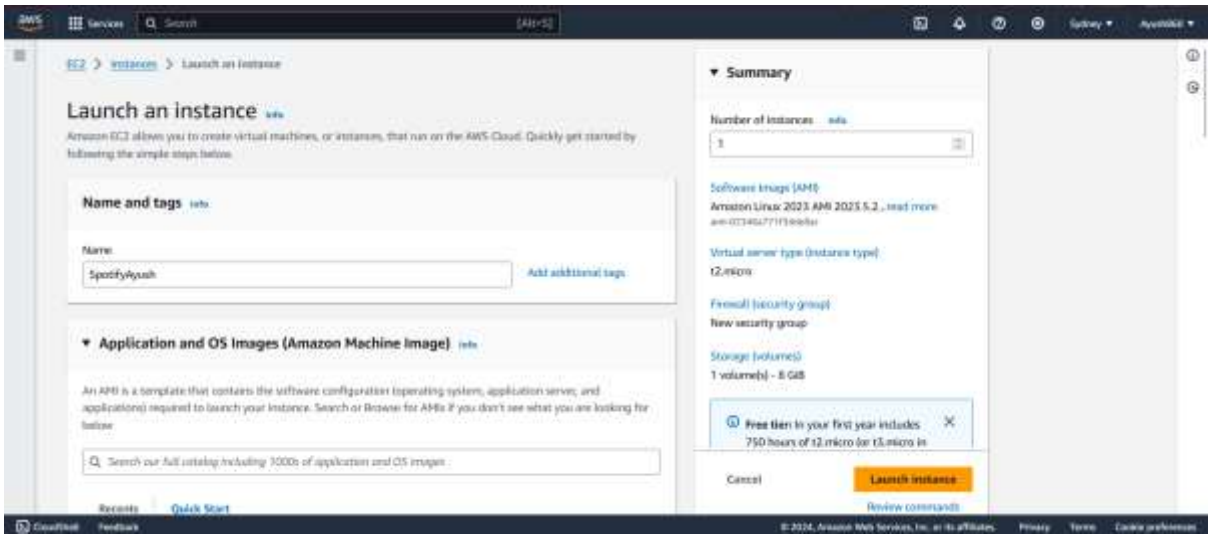
3. Click on Ec2



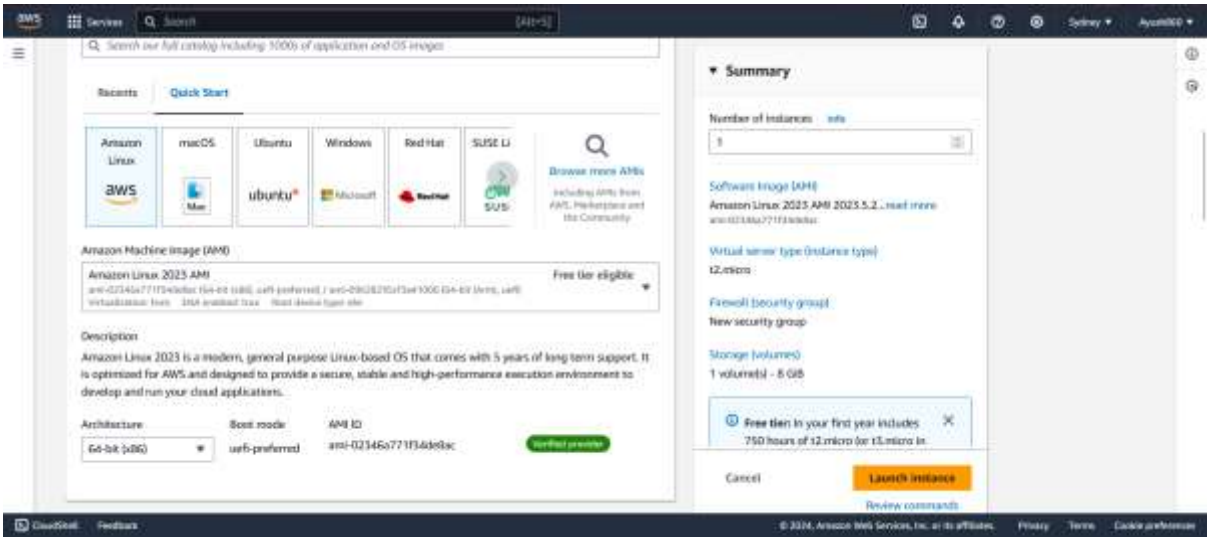
4. Click on launch Instance



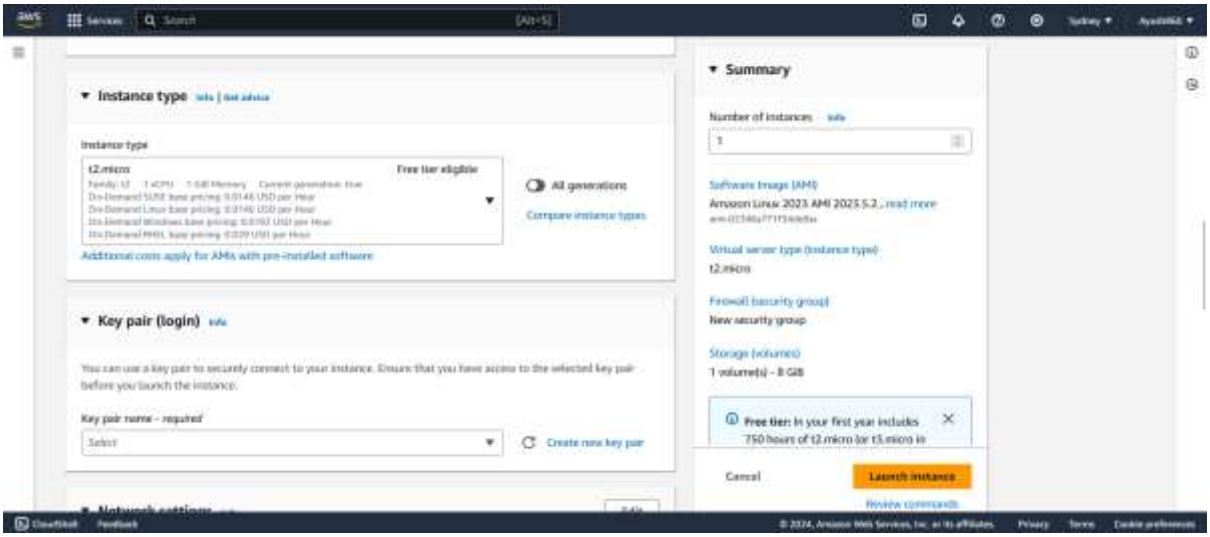
5. Name the instance



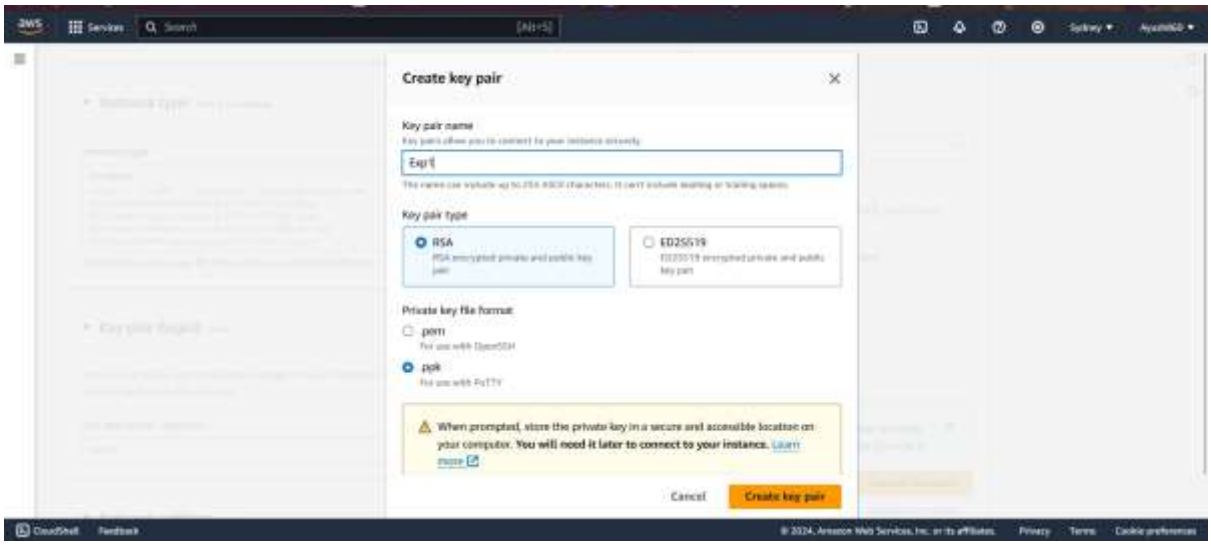
6. Specify the os and architecture of the vm



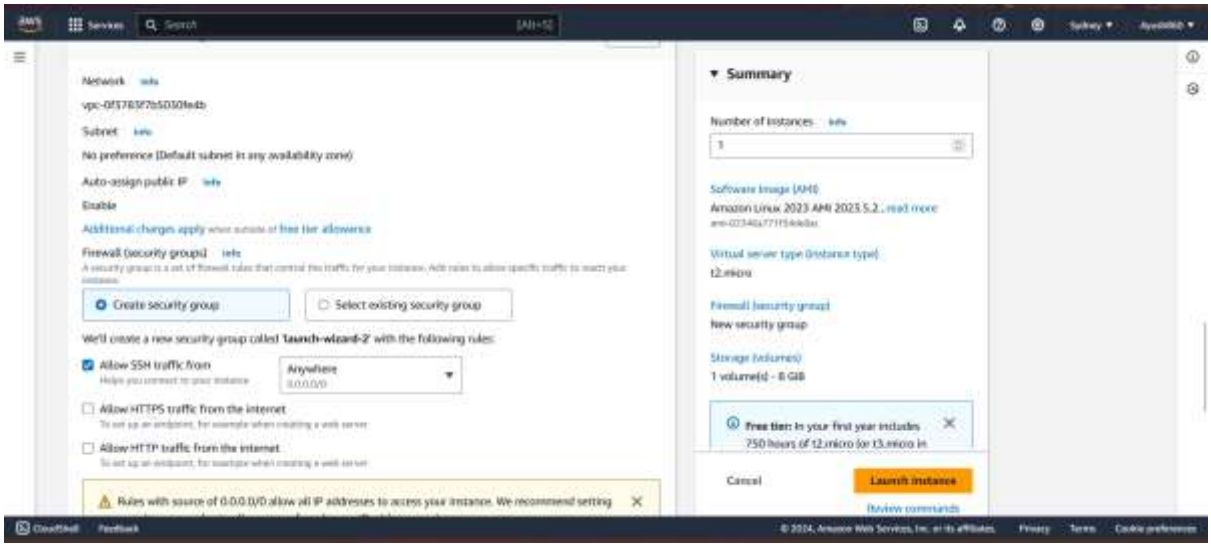
7. Instance type t2.micro (free trial)



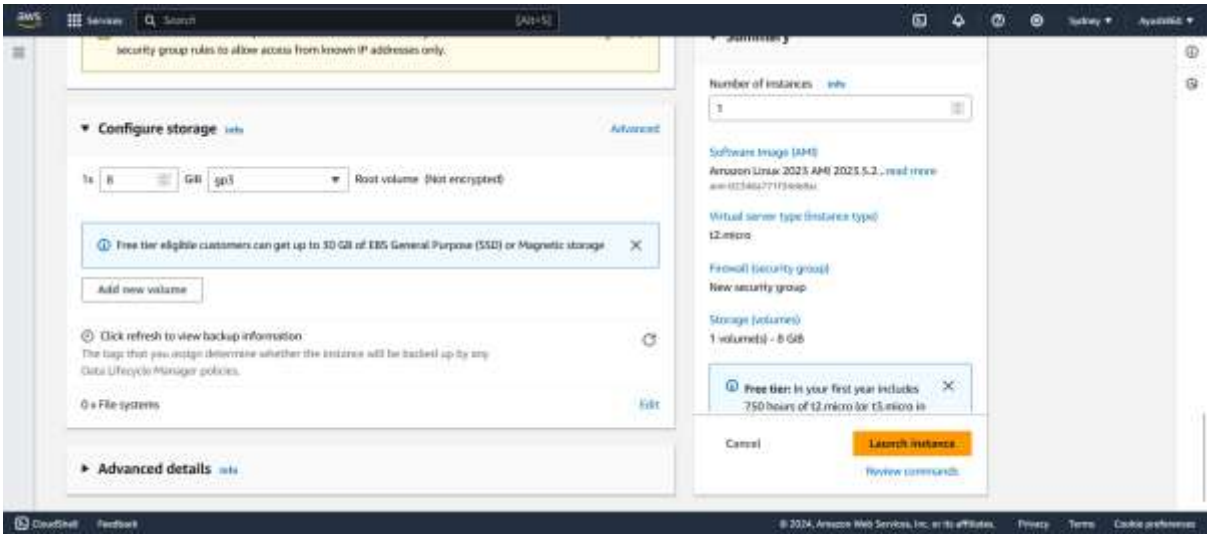
8. Create key pair ,change file format to .ppk, the file will be downloaded



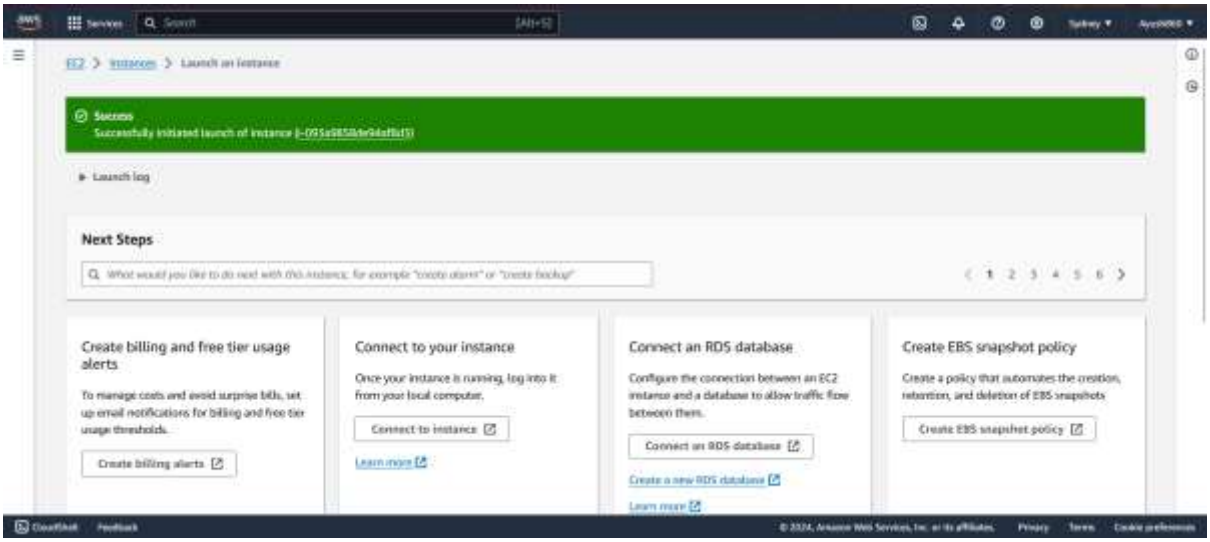
9. Specify network and subnet



10. Configure storage



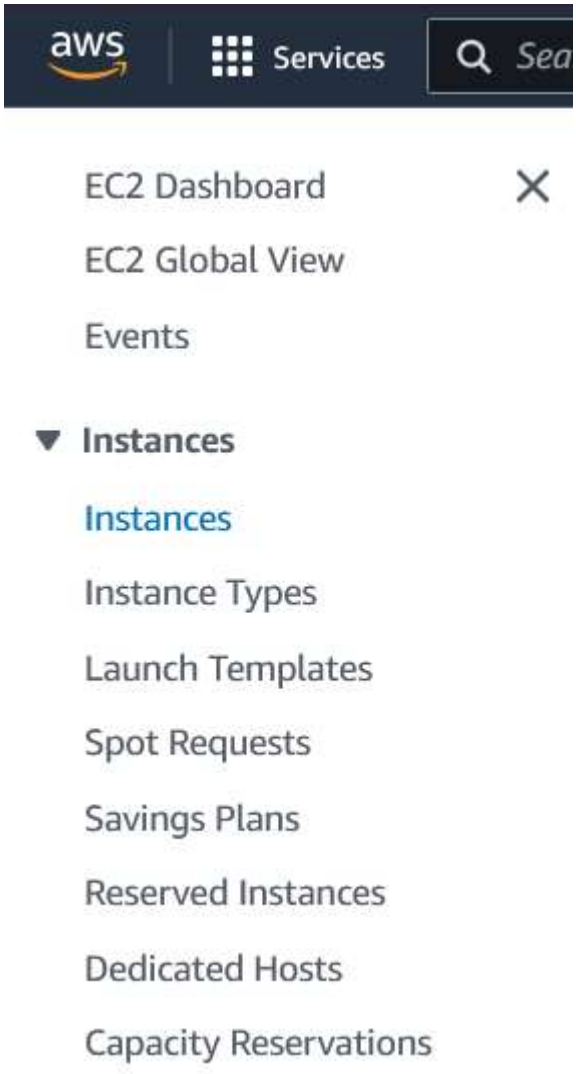
11. The instance will be launches now we have to connect it



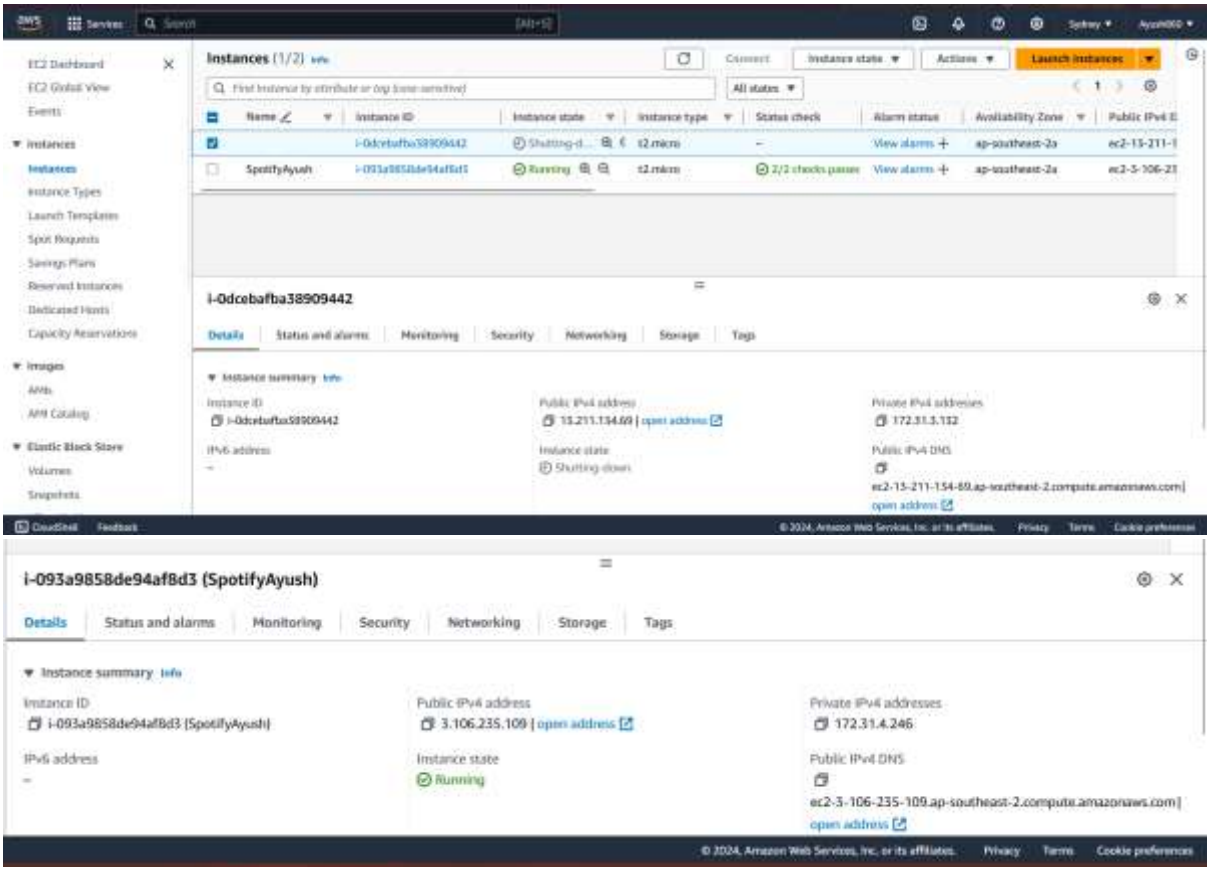
12. Click on connect to instance

13. Now go back to EC2

14. Click on instances

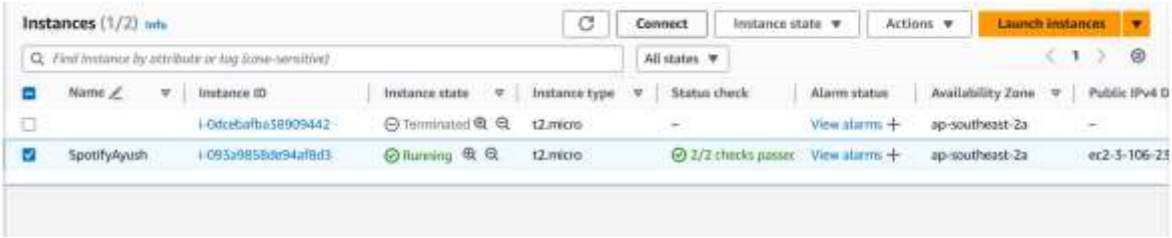

aws
Services
Sea
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations

15. Instance created

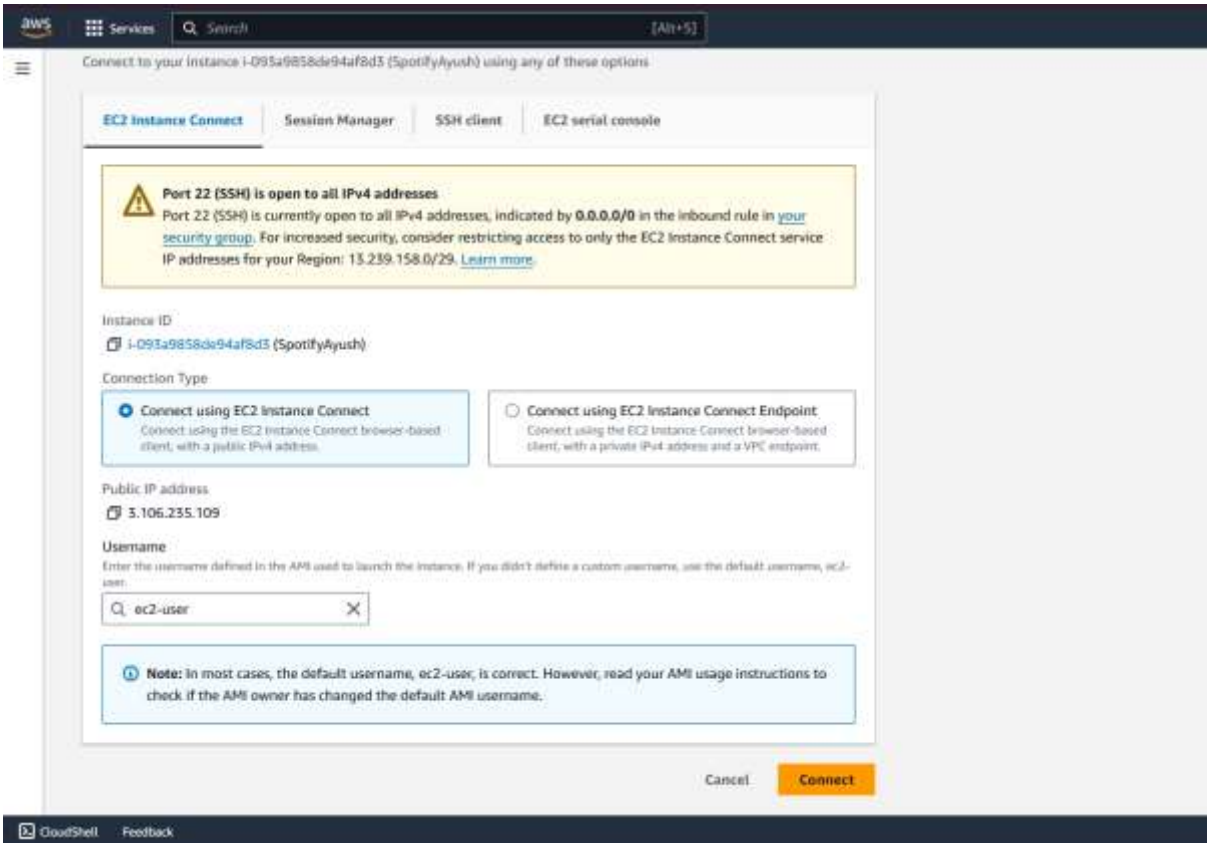


16. Copy the auto assigned ip

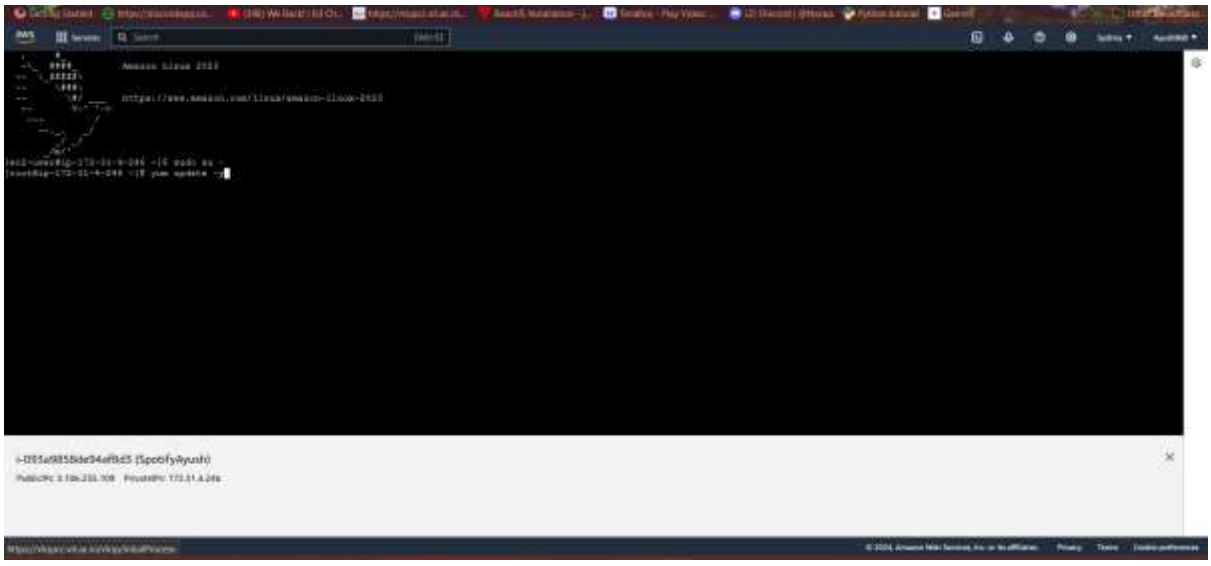
17. Open this ip in a new tab and click on connect



18. Now click on connect



19. Instance has been successfully connected and we can see the linux console



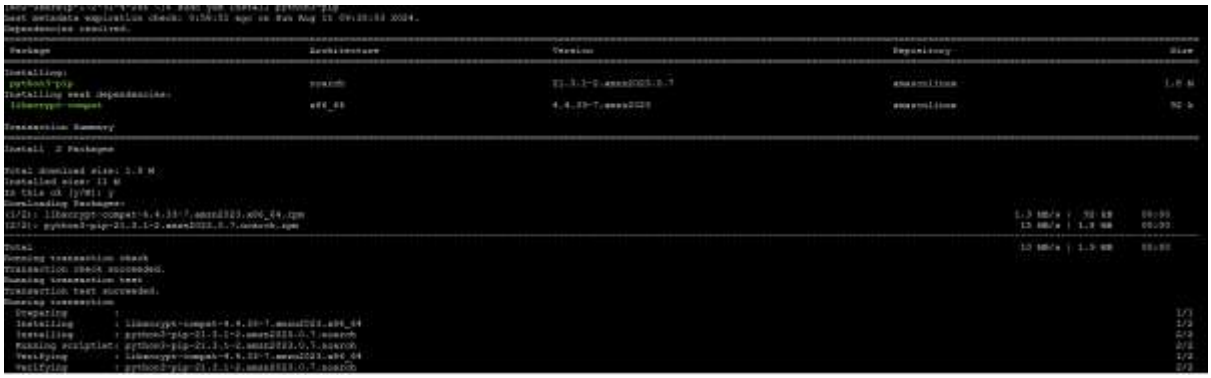
20. Further codes

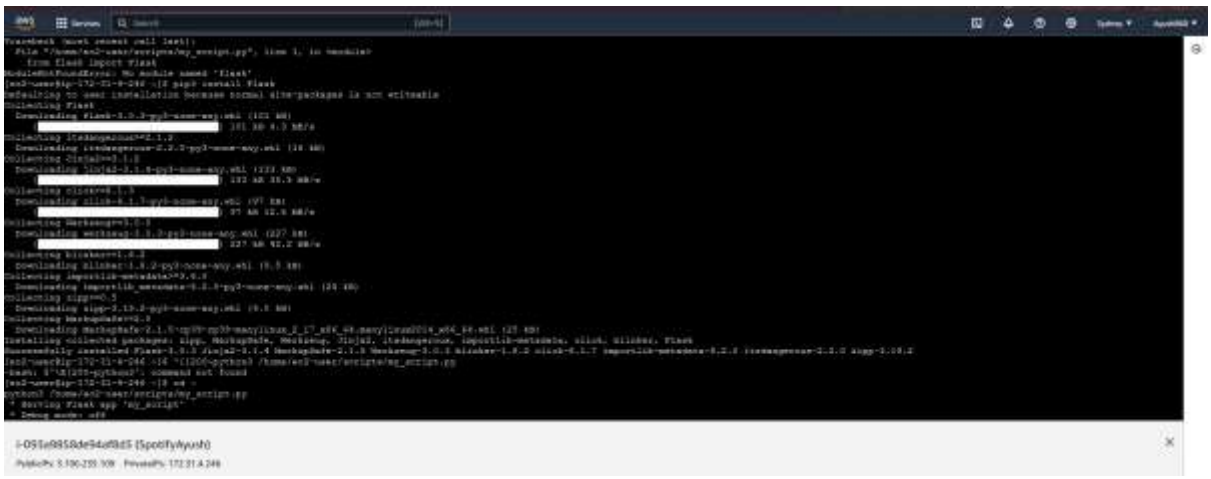
Sudo su-

21. Install necessary packages
22. We are running a flask application on this instance so to do so we are installing the necessary packages

Firstly we install pip3

Then we install flask





23. $ sudo yum install python3-pip
24. Complete!

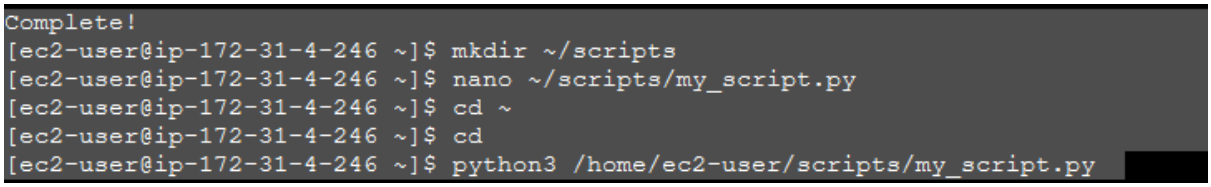
25. mkdir ~/scripts
26. nano ~/scripts/my_script.py
27. cd ~
28. cd
29. python3 /home/ec2-user/scripts/my_script.py
30. The code in python file is

```
from flask import Flask

app = Flask(__name__)

@app.route('/')
def hello_world():
return 'Hello, World!'

if __name__ == '__main__':
app.run(host='0.0.0.0', port=5000)
```



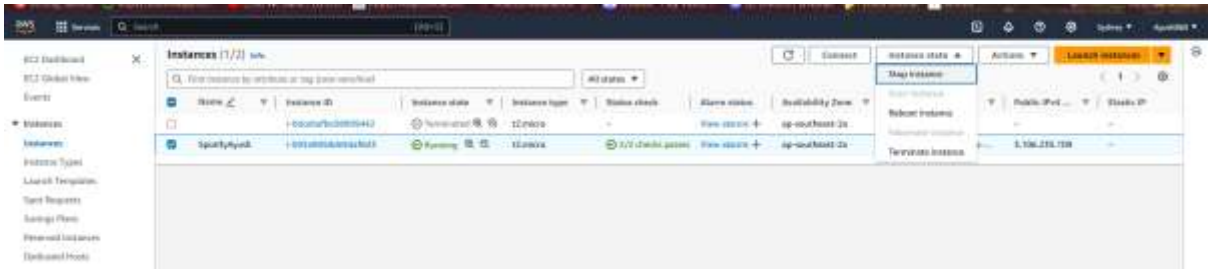
Flask application has been successfully launched

We can see the output showing

Serving Flask app 'my_script': This confirms Flask is running application named my_script.py.

```
python3 /home/ec2-user/scripts/my_script.py
 * Serving Flask app 'my_script'
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://172.31.4.246:5000
Press CTRL+C to quit
```

31. After this we stop the instance



We can see the instance has stopped