CLOUD COMPUTING PRACTICAL ASSIGNMENT NO:11

Write a program for web feed. Prepare a Screen shots file and also write down the steps. Make single word or PDF file.

1. Launch an EC2 Instance

1. Log in to AWS Management Console:

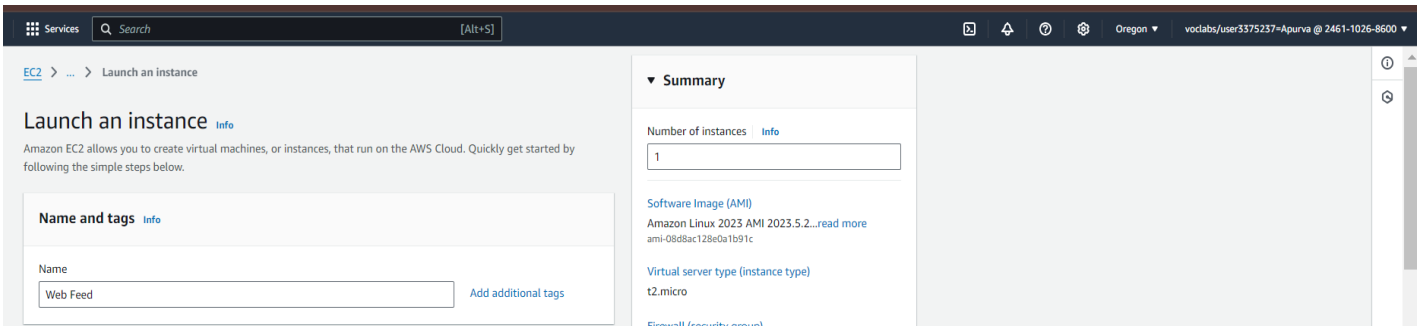
- Go to the [AWS Management Console](https://aws.amazon.com/console/) and sign in.

2. Search to EC2:

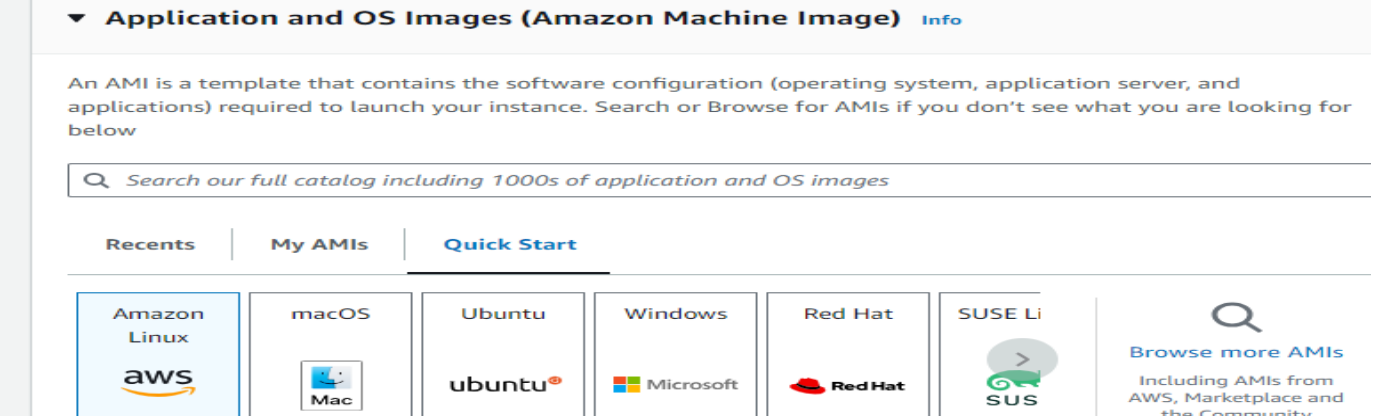
- In the Services search bar, type and select EC2.

3. Launch an Instance:

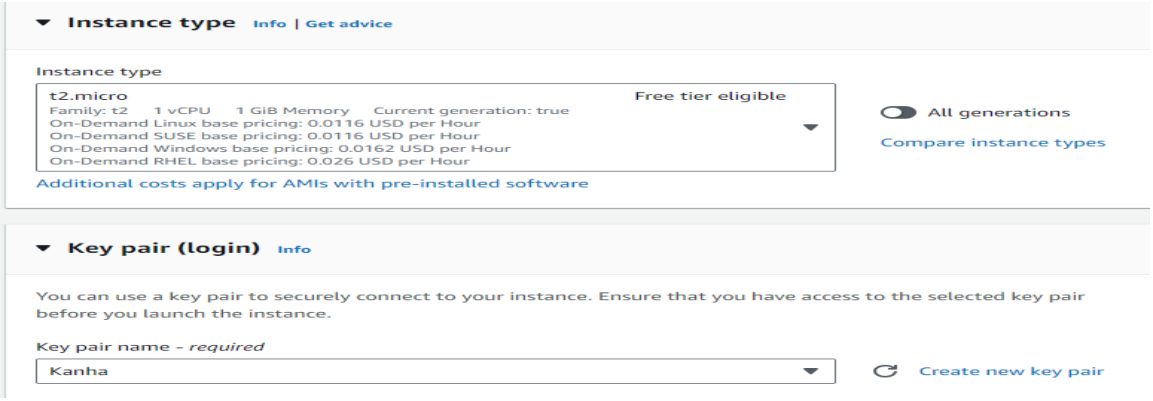
- Click on the Launch Instances button.



- Choose an Amazon Machine Image (AMI) (e.g., Amazon Linux)



- Select an instance type (e.g., `t2.micro`) and select or create a new key pair



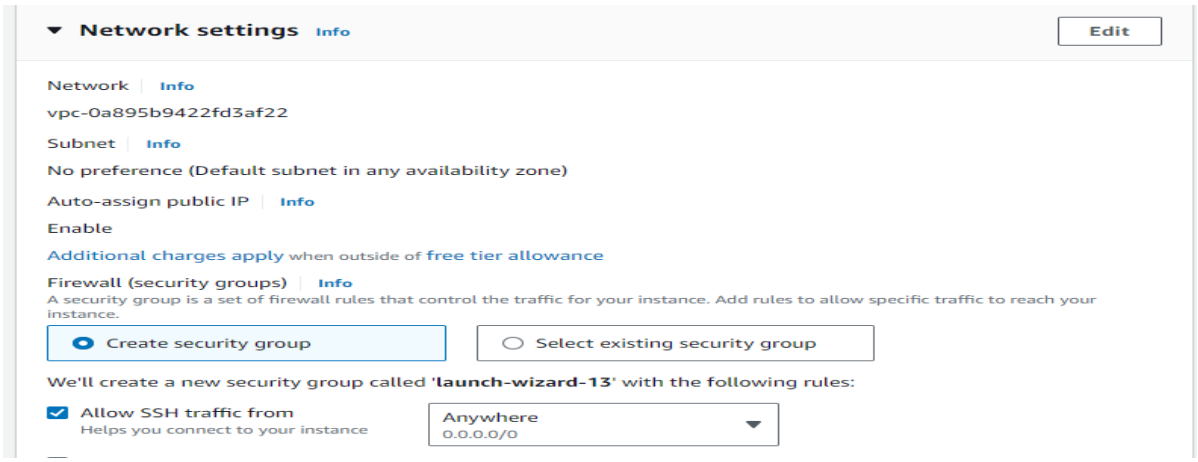
- Click Next: Configure Instance Details.

- Keep the default settings and click Next: Add Storage.

- Review and click Next: Add Tags.

- Click Next: Configure Security Group:

- Add a rule to allow SSH (port 22) from your IP address.

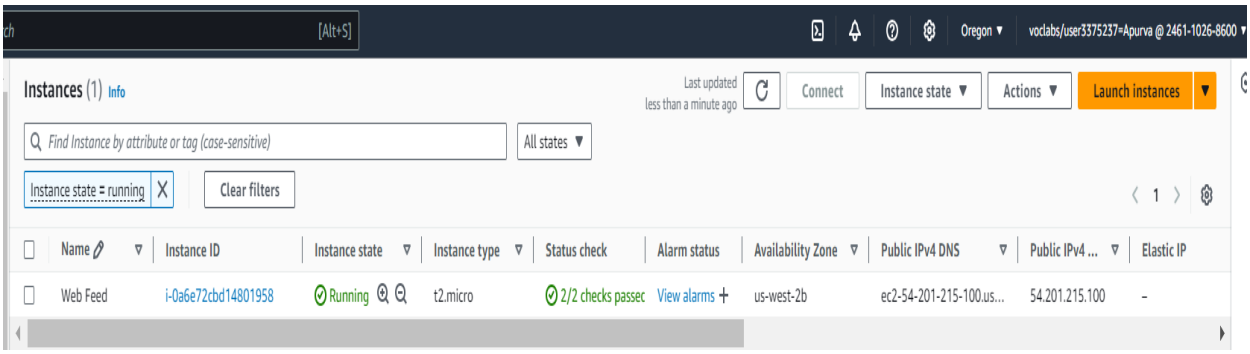


- Click Review and Launch.

- Click Launch Instances.

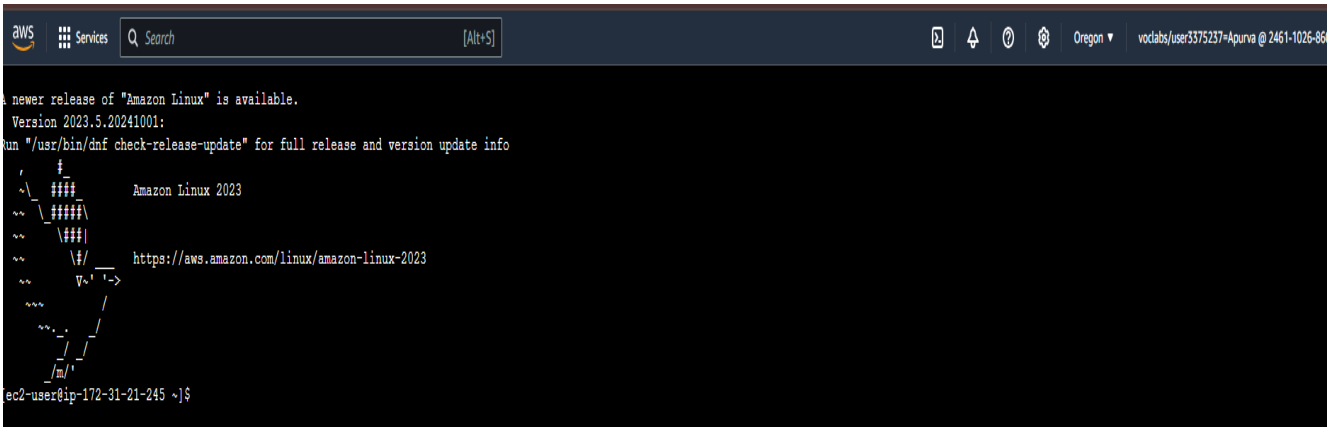
4. Wait for the Instance to be Running:

- Once the instance state is "running," you can connect to it.



II) Connect to Your EC2 Instance

- In the EC2 Dashboard, select your instance and click to connect.

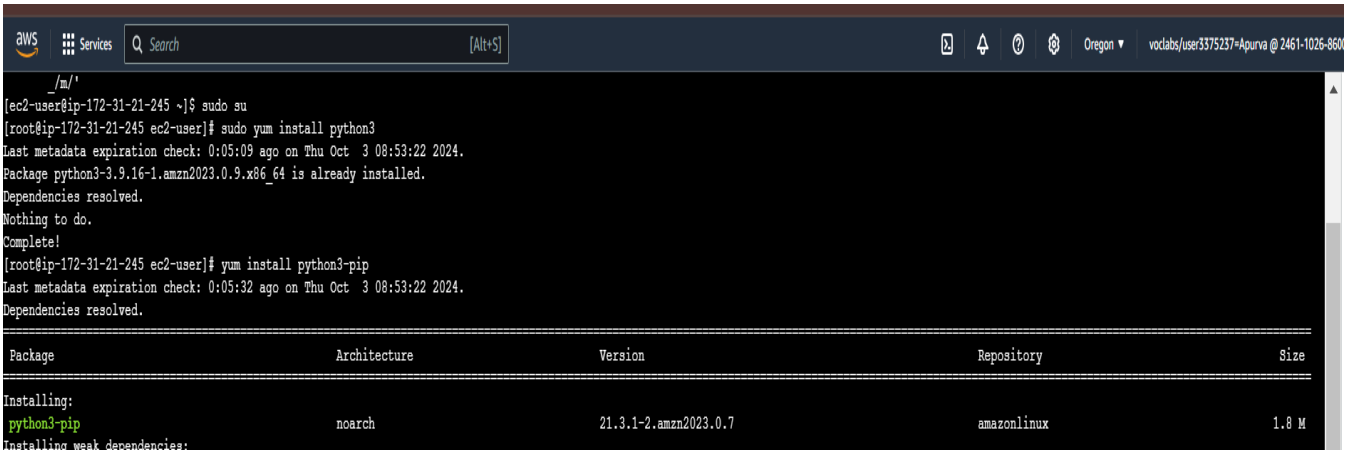


III). Install Python and pip

1. Install Python 3:

- Run the following command to install Python 3:

sudo yum install python3 -y



2. Install pip for Python 3:

- Install pip using:

sudo yum install python3-pip -y

```
[root@ip-172-31-21-245 ec2-user]# yum install python3-pip
Last metadata expiration check: 0:05:32 ago on Thu Oct  3 08:53:22 2024.
Dependencies resolved.
================================================================================
 Package                 Architecture          Version                 Repository
================================================================================
Installing:
 python3-pip             noarch                21.3.1-2.amzn2023.0.7   amazonlinux
Installing weak dependencies:
 libxcrypt-compat        x86_64                4.4.33-7.amzn2023       amazonlinux

Transaction Summary
================================================================================
Install  2 Packages
```

IV)Install the Feedparser Library

- Install the `feedparser` library using pip:

pip3 install feedparser

```
Complete!
[root@ip-172-31-21-245 ec2-user]# pip3 install feedparser
Collecting feedparser
  Downloading feedparser-6.0.11-py3-none-any.whl (81 kB)
     |████████████████████████████████| 81 kB 5.0 MB/s
Collecting sgmllib3k
  Downloading sgmllib3k-1.0.0.tar.gz (5.8 kB)
  Preparing metadata (setup.py) ... done
Using legacy 'setup.py install' for sgmllib3k, since package 'wheel' is not installed.
Installing collected packages: sgmllib3k, feedparser
    Running setup.py install for sgmllib3k ... done
Successfully installed feedparser-6.0.11 sgmllib3k-1.0.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting beh
```

V) Write the Web Feed Program

1. Create a Python File:

   - Use a text editor like vi to create a new file:

   vi demo.py

2. Add the Following Code:

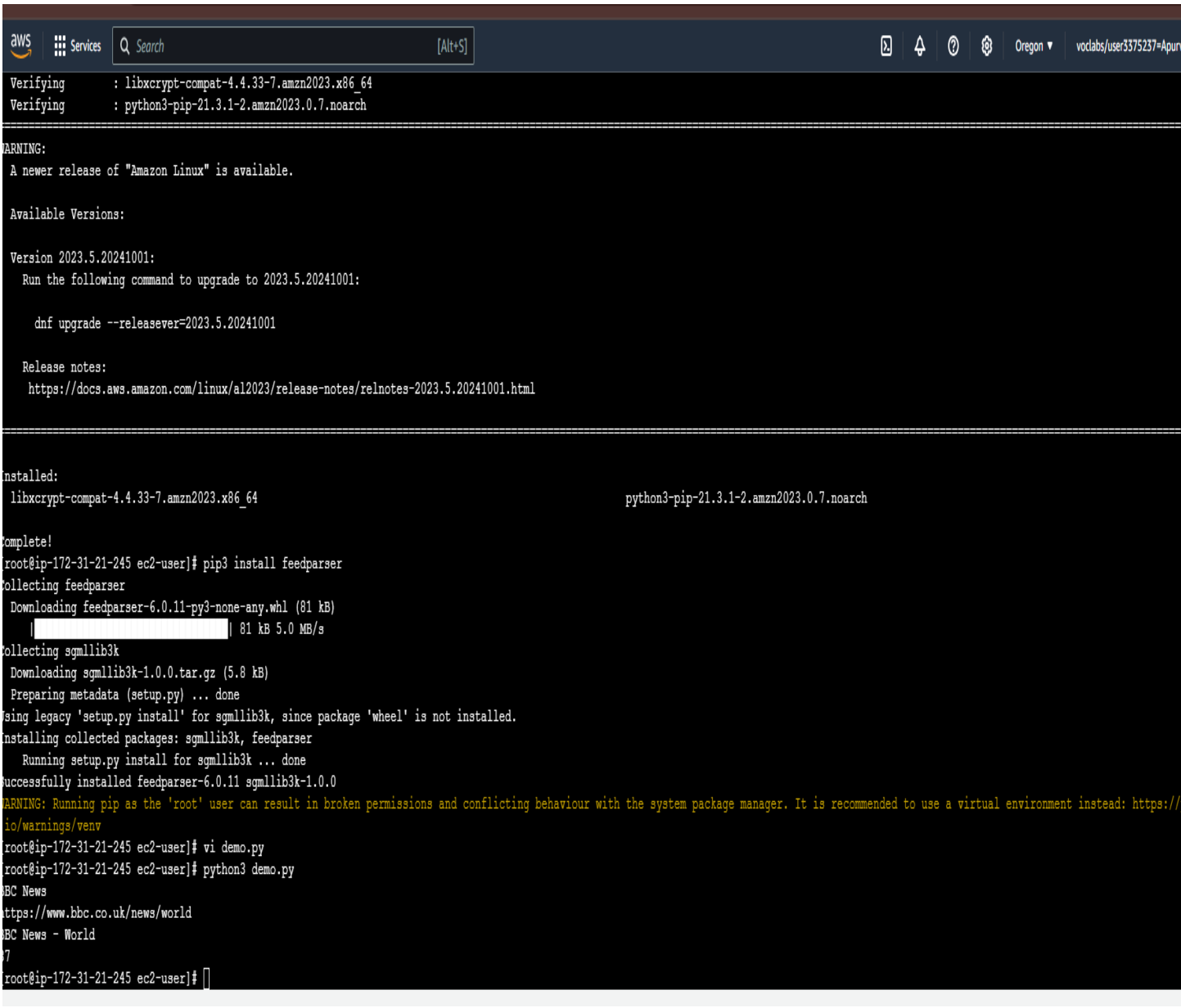
3. Save and Exit the Editor:

- Save the file and exit.

4. Run the Web Feed Program

- Execute the program using Python 3:

python3 demo.py


Services
Search
[Alt+S]
Oregon
Verifying : libxcrypt-compat-4.4.33-7.amzn2023.x86_64
Verifying : python3-pip-21.3.1-2.amzn2023.0.7.noarch
WARNING:
A newer release of "Amazon Linux" is available.
Available Versions:
Version 2023.5.20241001:
Run the following command to upgrade to 2023.5.20241001:
dnf upgrade --releasever=2023.5.20241001
Release notes:
https://docs.aws.amazon.com/linux/al2023/release-notes/relnotes-2023.5.20241001.html
Installed:
libxcrypt-compat-4.4.33-7.amzn2023.x86_64
python3-pip-21.3.1-2.amzn2023.0.7.noarch
Complete!
[root@ip-172-31-21-245 ec2-user]# pip3 install feedparser
Collecting feedparser
Downloading feedparser-6.0.11-py3-none-any.whl (81 kB)
81 kB 5.0 MB/s
Collecting sgmllib3k
Downloading sgmllib3k-1.0.0.tar.gz (5.8 kB)
Preparing metadata (setup.py) ... done
Using legacy 'setup.py install' for sgmllib3k, since package 'wheel' is not installed.
Installing collected packages: sgmllib3k, feedparser
Running setup.py install for sgmllib3k ... done
Successfully installed feedparser-6.0.11 sgmllib3k-1.0.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://
io/warnings/venv
[root@ip-172-31-21-245 ec2-user]# vi demo.py
[root@ip-172-31-21-245 ec2-user]# python3 demo.py
BBC News
https://www.bbc.co.uk/news/world
BBC News - World
37
[root@ip-172-31-21-245 ec2-user]#