

## Assignment :11

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Class: Msc CS Part 2

**Q.)Write a program for web feed Step 1:Login to your AWS account and go to EC2 and launch the instance**

Step 1:Login to your AWS account and go to EC2 and launch the instance

Step 2:Give instance name and select Amazon Linux AMI

The image consists of two screenshots of the AWS Management Console, illustrating the process of launching an EC2 instance.

**Top Screenshot: Launch an instance page**

- Name and tags:** The instance name is set to "webfeeddemo".
- Application and OS Images (Amazon Machine Image):** The "Amazon Linux 2023 AMI" is selected.
- Summary:** Shows the configuration details: Number of instances: 1, Software Image (AMI): Amazon Linux 2023 AMI 2023.6.2..., Virtual server type (instance type): t2.micro, Firewall (security group): New security group, Storage (volumes): 1 volume(s) - 8 GiB.
- Buttons:** "Cancel" and "Launch instance" buttons are visible.

**Bottom Screenshot: Amazon Machine Image (AMI) selection page**

- Amazon Machine Image (AMI):** The "Amazon Linux 2023 AMI" is selected, showing details like "ami-06b21ccaeff8cd686" and "Free tier eligible".
- Description:** Provides information about Amazon Linux 2023, stating it is a modern, general purpose Linux-based OS with 5 years of long term support.
- Amazon Linux 2023 AMI 2023.6.20241010.0 x86\_64 HVM kernel-6.1**
- Architecture:** 64-bit (x86)
- Boot mode:** uefi-preferred
- AMI ID:** ami-06b21ccaeff8cd686
- Username:** ec2-user
- Verified provider:** Indicated by a green checkmark.
- Summary:** Shows the configuration details: Number of instances: 1, Software Image (AMI): Amazon Linux 2023 AMI 2023.6.2..., Virtual server type (instance type): t2.micro, Firewall (security group): New security group, Storage (volumes): 1 volume(s) - 8 GiB.
- Buttons:** "Cancel" and "Launch instance" buttons are visible.

Launch AWS Academy Learner | Launch an instance | EC2 | us-east-1 | EC2 Instance Connect | (32) WhatsApp

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search [Alt+S] N. Virginia voclab

▼ Instance type Info | Get advice

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true Free tier eligible

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

Additional costs apply for AMIs with pre-installed software

▼ All generations

Compare instance types

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Select Create new key pair

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023. ami-06b21c9aeff8cd686

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Step 3: select key pair or create new.Keep rest of the as it is and

Launch AWS Academy Learner | Launch an instance | EC2 | us-east-1 | EC2 Instance Connect | (32) WhatsApp

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search [Alt+S] N. Virginia voclab

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

download Create new key pair

▼ Network settings Info Edit

Network Info

vpc-0023adba117ccb851

Subnet Info

No preference (Default subnet in any availability zone)

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023. ami-06b21c9aeff8cd686

Virtual server type (instance type)

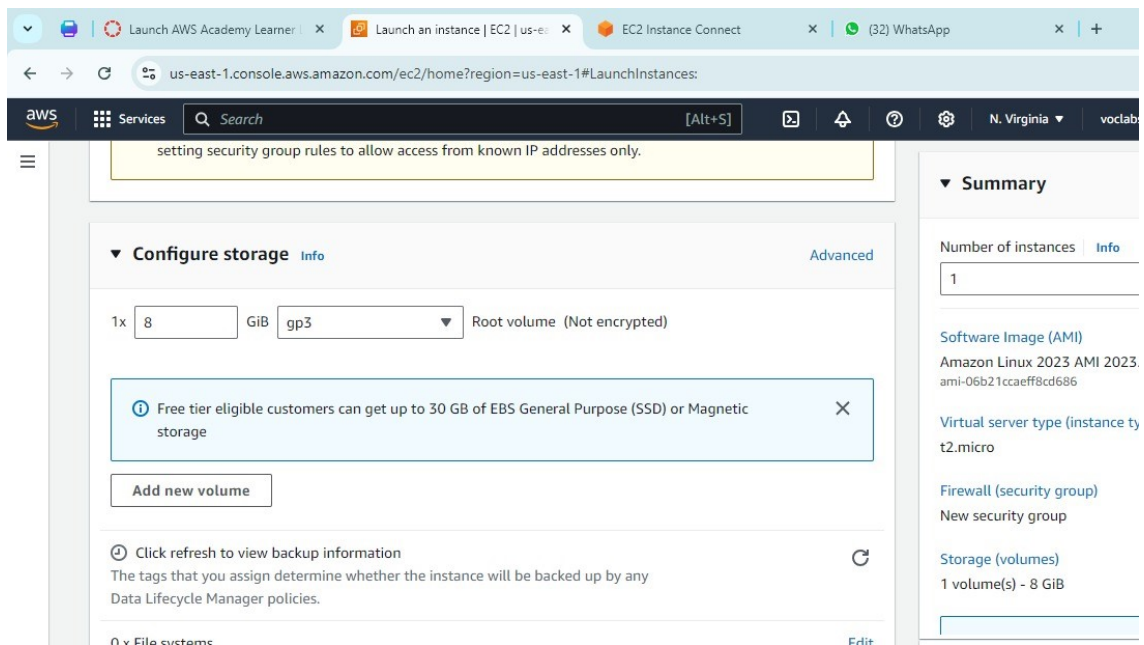
t2.micro

Firewall (security group)

New security group

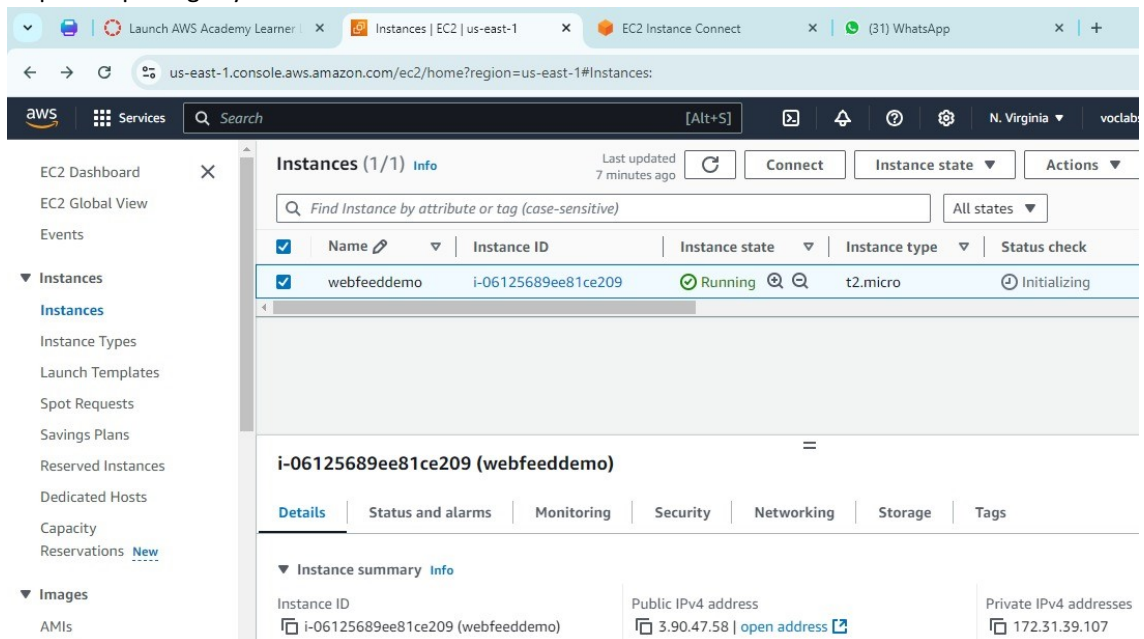
Storage (volumes)

1 volume(s) - 8 GiB

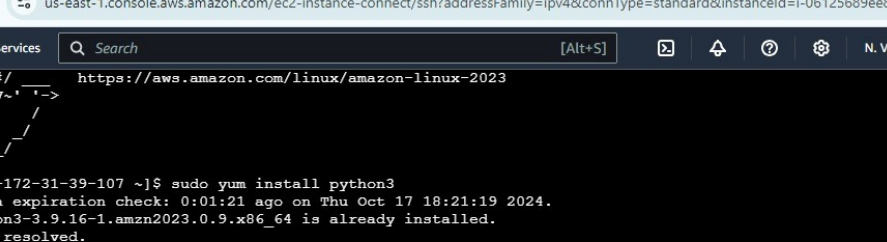


Step 4: After 2/2 check pass click on connect

Step 5: Keep things by default and click->connect



Step 6: Type below commands : `sudo yum install python3` `sudo yum install python3-pip` `pip install feedparser` `vi demo.py` insert python code and then click esc: `wq` And then type `python 3 demo.py`



The screenshot shows a terminal window within the AWS console, connected to an EC2 instance via SSH. The terminal displays the following commands and output:

```
[ec2-user@ip-172-31-39-107 ~]$ sudo yum install python3
Last metadata expiration check: 0:01:21 ago on Thu Oct 17 18:21:19 2024.
Package python3-3.9.16-1.amzn2023.0.9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-39-107 ~]$ sudo yum install python3-pip
Last metadata expiration check: 0:02:20 ago on Thu Oct 17 18:21:19 2024.
Dependencies resolved.
```

Below the terminal output, a table summarizes the installed packages:

Package	Architecture	Version	Repository
Installing: python3-pip	noarch	21.3.1-2.amzn2023.0.8	amazonlinux
Installing weak dependencies: libxcrypt-compat	x86_64	4.4.33-7.amzn2023	amazonlinux

Transaction Summary

i-06125689ee81ce209 (webfeaddemo)

PublicIPs: 3.90.47.58 PrivateIPs: 172.31.39.107

Launch AWS Academy Learner | x

Instances | EC2 | us-east-1 | x

EC2 Instance Connect | x

(31) WhatsApp | x

+

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-06125689ee81ce209&osUser=ec2-user

aws

Services

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[1]+ Stopped sudo yum install python3-pip  
[ec2-user@ip-172-31-39-107 ~]\$ sudo yum install python3-pip  
Last metadata expiration check: 0:03:13 ago on Thu Oct 17 18:21:19 2024.  
Dependencies resolved.  

Package	Architecture	Version	Repository
Installing:			
python3-pip	noarch	21.3.1-2.amzn2023.0.8	amazonlinux
Installing weak dependencies:			
libxcrypt-compat	x86_64	4.4.33-7.amzn2023	amazonlinux

  
Transaction Summary  
  
Install 2 Packages  
  
Total download size: 1.9 M  
Installed size: 11 M  
Is this ok [y/N]: y  
Downloading Packages:  

(1/2): libxcrypt-compat-4.4.33-7.amzn2023.x86_64.rpm	[=====]	1.6
(2/2): python3-pip-21.3.1-2.amzn2023.0.8.noarch.rpm		15

Launch AWS Academy Learner | x

Instances | EC2 | us-east-1 | x

EC2 Instance Connect | x

(31) WhatsApp | x

+

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-06125689ee81ce209&osUser=ec2-user

aws

Services

Search

[Alt+S]

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(1/2): libxcrypt-compat-4.4.33-7.amzn2023.x86\_64.rpm 1.6  
(2/2): python3-pip-21.3.1-2.amzn2023.0.8.noarch.rpm 15  
-----  
Total 11  
Running transaction check  
Transaction check succeeded.  
Running transaction test  
Transaction test succeeded.  
Running transaction  
Preparing :  
Installing : libxcrypt-compat-4.4.33-7.amzn2023.x86\_64  
Installing : python3-pip-21.3.1-2.amzn2023.0.8.noarch  
Running scriptlet: python3-pip-21.3.1-2.amzn2023.0.8.noarch  
Verifying : libxcrypt-compat-4.4.33-7.amzn2023.x86\_64  
Verifying : python3-pip-21.3.1-2.amzn2023.0.8.noarch  
  
Installed:  
libxcrypt-compat-4.4.33-7.amzn2023.x86\_64 python3-pip-21.3.1-2.amzn2023.0.8.noarch  
  
Complete!  
[ec2-user@ip-172-31-39-107 ~]\$ pip install feedparser  
Defaulting to user installation because normal site-packages is not writeable  
Collecting feedparser

i-06125689ee81ce209 (webfeaddemo)

PublicIPs: 3.90.47.58 PrivateIPs: 172.31.39.107

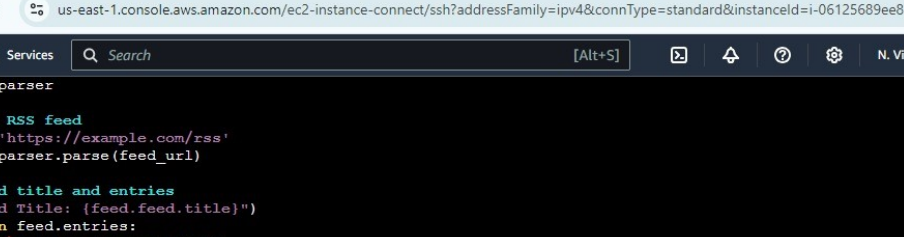
Output:

```
Installing      : python3-pip-21.3.1-2.amzn2023.0.8.noarch
Running scriptlet: python3-pip-21.3.1-2.amzn2023.0.8.noarch
Verifying      : libxcrypt-compat-4.4.33-7.amzn2023.x86_64
Verifying      : python3-pip-21.3.1-2.amzn2023.0.8.noarch

Installed:
  libxcrypt-compat-4.4.33-7.amzn2023.x86_64                python3-pip-21.3.1-2.amzn2023.0.8.noarch

Complete!
[ec2-user@ip-172-31-39-107 ~]$ pip install feedparser
Defaulting to user installation because normal site-packages is not writeable
Collecting feedparser
  Downloading feedparser-6.0.11-py3-none-any.whl (81 kB)
    |#####| 81 kB 5.1 MB/s
Collecting sgmlib3k
  Downloading sgmlib3k-1.0.0.tar.gz (5.8 kB)
  Preparing metadata (setup.py) ... done
Using legacy 'setup.py install' for sgmlib3k, since package 'wheel' is not installed.
Installing collected packages: sgmlib3k, feedparser
  Running setup.py install for sgmlib3k ... done
Successfully installed feedparser-6.0.11 sgmlib3k-1.0.0
[ec2-user@ip-172-31-39-107 ~]$ vi demo.py
[ec2-user@ip-172-31-39-107 ~]$ vi demo.py
[ec2-user@ip-172-31-39-107 ~]$
```

### Python Code:



The screenshot shows a web browser window with multiple tabs, including 'Launch AWS Academy Learner', 'Instances | EC2 | us-east-1', 'EC2 Instance Connect', and '(31) WhatsApp'. The active tab displays the AWS console URL for an EC2 instance. Below the browser window, a terminal window is open, showing a Python script named 'demo.py'. The script imports 'feedparser' and defines a function 'parse\_rss' that takes a 'feed\_url' as input. It uses 'feedparser.parse' to fetch the feed and then iterates through the feed entries, printing their titles, links, and published dates. The terminal output shows the script is 12 lines long and 323 bytes in size.

```
import feedparser

# Parse the RSS feed
feed_url = 'https://example.com/rss'
feed = feedparser.parse(feed_url)

# Print feed title and entries
print(f"Feed Title: {feed.feed.title}")
for entry in feed.entries:
    print(f"\nTitle: {entry.title}")
    print(f"Link: {entry.link}")
    print(f"Published: {entry.published}")

"demo.py" 12L, 323B
```



## Output:

```
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-06125689ee81ce209&osUser=ec2-user

(1/2): libxcrypt-compat-4.4.33-7.amzn2023.x86_64.rpm 1.6
(2/2): python3-pip-21.3.1-2.amzn2023.0.8.noarch.rpm 15
-----
Total 11
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      : 
  Installing     : libxcrypt-compat-4.4.33-7.amzn2023.x86_64
  Installing     : python3-pip-21.3.1-2.amzn2023.0.8.noarch
  Running scriptlet: python3-pip-21.3.1-2.amzn2023.0.8.noarch
  Verifying      : libxcrypt-compat-4.4.33-7.amzn2023.x86_64
  Verifying      : python3-pip-21.3.1-2.amzn2023.0.8.noarch

Installed:
  libxcrypt-compat-4.4.33-7.amzn2023.x86_64          python3-pip-21.3.1-2.amzn2023.0.8.noarch

Complete!
[ec2-user@ip-172-31-39-107 ~]$ pip install feedparser
Defaulting to user installation because normal site-packages is not writeable
Collecting feedparser
```

i-06125689ee81ce209 (webfeaddemo)

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