

CLOUD COMPUTING PRACTICAL 1

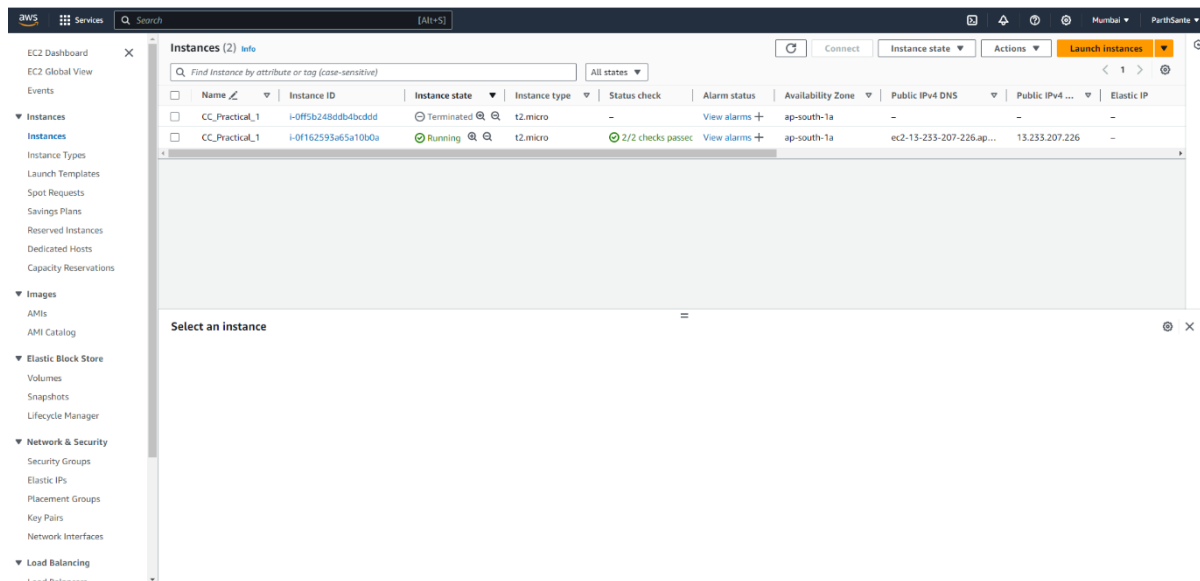
NAME: ANIRUDDHA.K.SHELKE

SAP ID: 86062300008

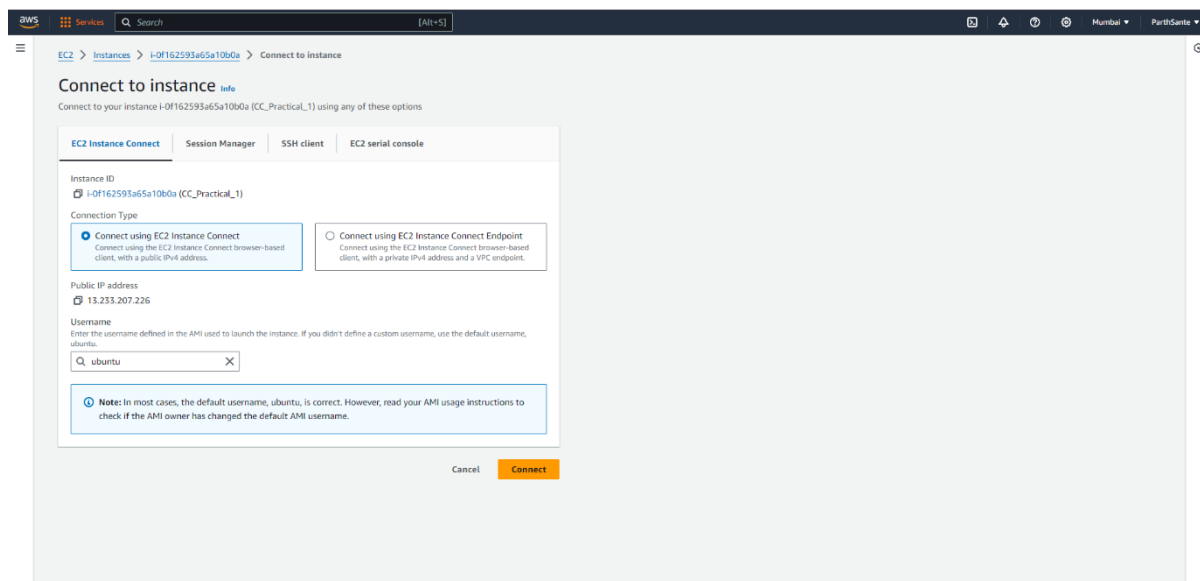
ROLL NO: A062

DATE: 21/07/2024

Step 1: Sign in into AWS console, in the search bar look for EC2 and create an instance.



Step 2: After creating the instance click on connect.



Step 3: Use a key-pair login which will connect you securely and launch the instance.

Virtualization: hvm ENA enabled: true Root device type: ebs

Description
Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Architecture: 64-bit (x86) AMI ID: ami-Qad21ae1d0696ad58 Verified provider

▼ Instance type Info Get advice

Instance type
t2.micro
Family: t2 1 vCPU 1 GB Memory Current generation: true Free tier eligible
On-Demand Linux base pricing: 0.0124 USD per Hour
On-Demand Windows base pricing: 0.0171 USD per Hour
On-Demand SUSE base pricing: 0.0268 USD per Hour
On-Demand SUSE base pricing: 0.0124 USD per Hour
Additional costs apply for AMIs with pre-installed software

▼ 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
prac_1 [Create new key pair](#)

▼ Network settings Info

Edit

▼ Summary

Number of instances Info
1

Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-Qad21ae1d0696ad58

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel [Launch instance](#) [Review commands](#)

▼ Network settings Info Edit

Network Info
vpc-03e9a83c028bd4f03
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
☒ Create security group ☐ Select existing security group
We'll create a new security group called 'launch-wizard-3' with the following rules:
☒ Allow SSH traffic from Anywhere 0.0.0.0/0
Helps you connect to your instance
☒ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server
☒ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

▼ Configure storage Info Advanced

1x 8 GiB gp3 Root volume (Not encrypted)

▼ Summary

Number of instances Info
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Canonical, Ubuntu, 24.04 LTS, ...read more
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Cancel [Launch instance](#) [Review commands](#)

Step 4: After launching the instance with ubuntu server you will get an virtual enviornment, run some commands inside that environment.

```
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

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-172-31-43-186:~$ mkdir prac_1
ubuntu@ip-172-31-43-186:~$ date
Sat Jul 20 09:26:27 UTC 2024
ubuntu@ip-172-31-43-186:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-43-186:~$ ls
prac_1
ubuntu@ip-172-31-43-186:~$ python --version
Command 'python' not found, did you mean:
  command 'python3' from deb python3
  command 'python' from deb python-is-python3
ubuntu@ip-172-31-43-186:~$ sudo apt python-is-python3
E: Invalid operation python-is-python3
ubuntu@ip-172-31-43-186:~$ sudo apt python-is-python3
E: Invalid operation python-is-python3
ubuntu@ip-172-31-43-186:~$ sudo snt python-is-python3
sudo: snt: command not found
ubuntu@ip-172-31-43-186:~$ sudo apt install python-is-python3
Reading package lists... Done
Building dependency tree... Done
```

```
command 'python3' from deb python3
command 'python' from deb python-is-python3
ubuntu@ip-172-31-43-186:~$ sudo apt python-is-python3
E: Invalid operation python-is-python3
ubuntu@ip-172-31-43-186:~$ sudo apt python-is-python3
E: Invalid operation python-is-python3
ubuntu@ip-172-31-43-186:~$ sudo snt python-is-python3
sudo: snt: command not found
ubuntu@ip-172-31-43-186:~$ sudo apt install python-is-python3
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  python-is-python3
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 2684 B of archives.
After this operation, 15.4 kB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 python-is-python3 all 3.11.4-1 [2684 B]
Fetched 2684 B in 0s (132 kB/s)
Selecting previously unselected package python-is-python3.
(Reading database ... 67739 files and directories currently installed.)
Preparing to unpack .../python-is-python3_3.11.4-1_all.deb ...
Unpacking python-is-python3 (3.11.4-1) ...
Setting up python-is-python3 (3.11.4-1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-43-186:~$ python3
Python 3.12.3 (main, Apr 10 2024, 05:33:47) [GCC 13.2.0] on linux
Type "help", "copyright", "credits" or "license()" for more information.
>>> 1+2
3
>>>
```