

Subject: Containers & Orchestration

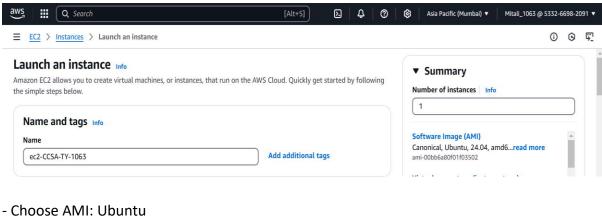
Name of the Student: Mitali Bhattad PRN: 20220801063

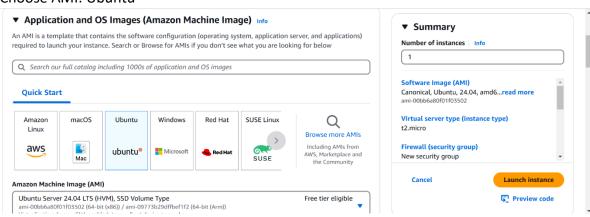
Title of Practical: **Configure Docker Community Latest version edition on**

cloud based instance verify the docker version

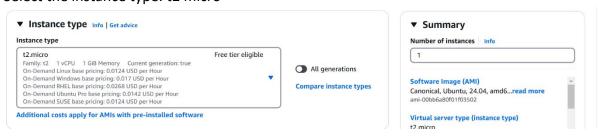
Step1: Launch an EC2 Instance

- Name the Instance





- Select the instance type: t2 micro



PRN: 20220801063



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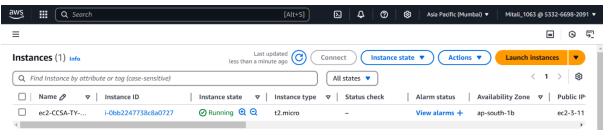
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- Create a Key pair ▼ Key pair (login) Info **▼** Summary You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before Number of instances Info you launch the instance. Key pair name - required ▼ Create new key pair Software Image (AMI) Canonical, Ubuntu, 24.04, amd6...read more - Security Group: Allow all the traffic Number of instances Info Firewall (security groups) Info urity 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 O Select existing security group Software Image (AMI) Canonical, Ubuntu, 24.04, amd6...read more ami-00bb6a80f01f03502 We'll create a new security group called 'launch-wizard-1' with the following rules: Allow SSH traffic from Anywhere Virtual server type (instance type) ✓ Allow HTTPS traffic from the internet en creating a web server Firewall (security group) ✓ Allow HTTP traffic from the internet New security group

- Launch the instance



Step 2: Connect the EC2 Instance and run the following commands:

- 1. Set up Docker's apt repository.
 - -sudo apt-get update -y





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-sudo install -m 0755 -d /etc/apt/keyrings

-sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc

-sudo chmod a+r /etc/apt/keyrings/docker.asc

-echo\

"deb [arch=\$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \ \$(. /etc/os-release && echo "\$VERSION_CODENAME") stable" | \ sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

```
ubuntu@ip-172-31-3-152:~$ sudo install -m 0755 -d /etc/apt/keyrings
ubuntu@ip-172-31-3-152:~$ sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
ubuntu@ip-172-31-3-152:~$ sudo chmod a+r /etc/apt/keyrings/docker.asc
ubuntu@ip-172-31-3-152:~$ echo \
    "deb [arch=${dpkg --print-architecture}] signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu \
    ${. /etc/os-release && echo "${UBUNTU_CODENAME:-$VERSION_CODENAME}") stable" | \
    sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
    ubuntu@ip-172-31-3-152:~$ [
```

i-0bb2247738c8a0727 (ec2-CCSA-TY-1063)

PublicIPs: 3.111.55.38 PrivateIPs: 172.31.3.152

-sudo apt-get update

```
ubuntu@ip-172-31-3-152:~$ sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:4 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [18.9 kB]
Fetched 67.7 kB in 1s (88.2 kB/s)
Fetched 67.7 kB in 1s (88.2 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-3-152:~$ []
```

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2. Install the Docker packages.

-sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

ubuntu@ip-172-31-3-152:~\$ sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugir Reading package lists... Done Building dependency tree... Done

3. To verify the docker installation: Run the following commands:

docker -v

ubuntu@ip-172-31-3-152:~\$ docker -v Docker version 27.5.1, build 9f9e405 ubuntu@ip-172-31-3-152:~\$

i-0bb2247738c8a0727 (ec2-CCSA-TY-1063)

PublicIPs: 3.111.55.38 PrivateIPs: 172.31.3.152

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