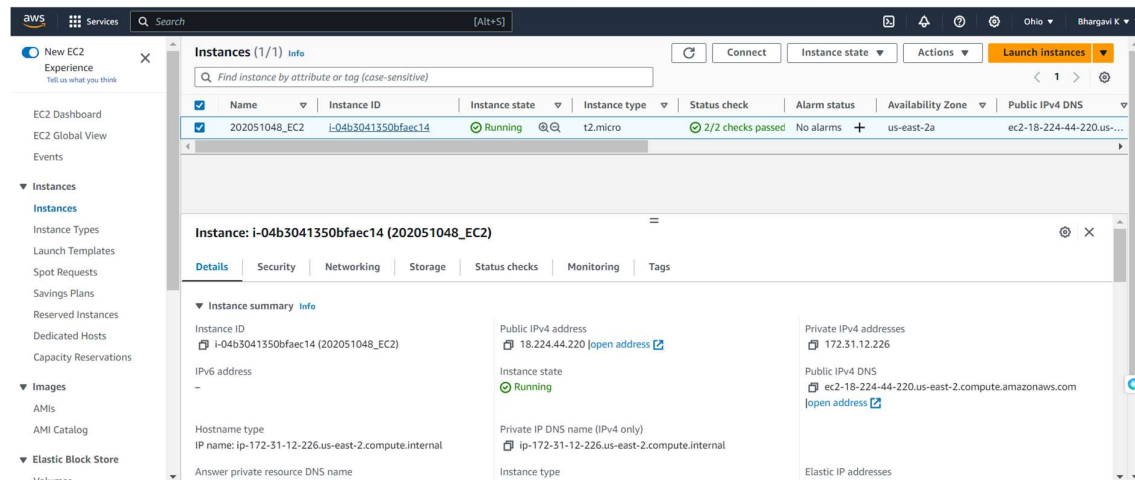


Assessment 1: EC2 and AMI

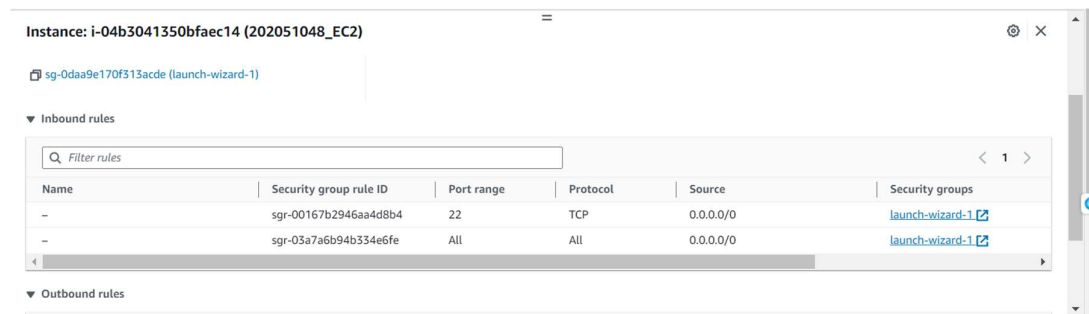
Name: Bhargavi Kamble

Student ID: 202051048

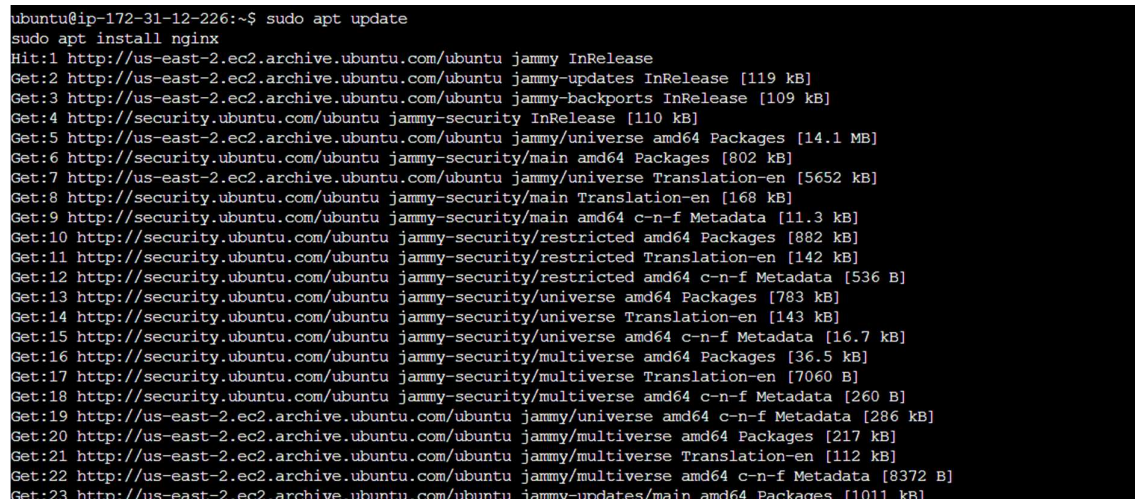
Create an instance using public AMI. Used Ubuntu here:



Configure inbound rules:



Download nginx:



```
ubuntu@ip-172-31-12-226:~$ sudo systemctl start nginx
ubuntu@ip-172-31-12-226:~$ systemctl status
● ip-172-31-12-226
   State: running
     Jobs: 0 queued
  Failed: 0 units
   Since: Wed 2023-09-20 11:07:06 UTC; 36min ago
  CGroup: /
          └─user.slice
              └─user-1000.slice
                  └─user@1000.service
                      └─init.scope
                          ├── 1608 /lib/systemd/systemd --user
                          └─1610 (sd-pam)
                  └─session-2.scope
                      ├── 1263 sshd: ubuntu [priv]
                      ├── 1688 sshd: ubuntu@pts/0
                      ├── 1691 -bash
                      ├── 2845 systemctl status
                      └─2846 pager
          └─init.scope
              └─1 /sbin/init
          └─system.slice
              ├── packagekit.service
              │   └─2051 /usr/libexec/packagekitd
              ├── systemd-networkd.service
              │   └─384 /lib/systemd/systemd-networkd
```



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org
Commercial support is available at nginx.com.

Thank you for using nginx



Create an image:

The screenshot shows the AWS Management Console 'Instances' page. A table lists instances, with 'i-04b3041350bfaec14' (202051048_EC2) in a 'Running' state. The 'Actions' menu for this instance is open, showing options like 'Connect', 'View details', 'Manage instance state', 'Instance settings', 'Networking', 'Security', 'Image and templates', and 'Monitor and troubleshoot'. The 'Image and templates' option is selected, and a sub-menu is displayed with 'Create image', 'Create template from instance', and 'Launch more like this'. The 'Create image' option is highlighted.

Instance: i-04b3041350bfaec14 (202051048_EC2)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

▼ Instance summary Info

Instance ID i-04b3041350bfaec14 (202051048_EC2)	Public IPv4 address 18.224.44.220 open address	Private IPv4 addresses 172.31.12.226
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-18-224-44-220.us-east-2.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-12-226.us-east-2.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-12-226.us-east-2.compute.internal	Elastic IP addresses
Answer private resource DNS name	Instance type t2.micro	

The screenshot shows the AWS Management Console 'Amazon Machine Images (AMIs)' page. A table lists AMIs, with 'ami-0ba66a3fd54494ad5' (202051048_AMI) selected. The 'Details' tab is active, showing information about the AMI.

Amazon Machine Images (AMIs) (1/1) Info

Owned by me | Find AMI by attribute or tag

Name	AMI ID	AMI name	Source	Owner	Visibility
202051048_AMI	ami-0ba66a3fd54494ad5	202051048_AMI	724667624949/202051048_AMI	724667624949	Private

AMI ID: ami-0ba66a3fd54494ad5 (202051048_AMI)

Details | Permissions | Storage | Tags

AMI ID ami-0ba66a3fd54494ad5 (202051048_AMI)	Image type machine	Platform details Linux/UNIX	Root device type EBS
AMI name 202051048_AMI	Owner account ID 724667624949	Architecture x86_64	Usage operation RunInstances
Root device name /dev/sda1	Status Pending	Source 724667624949/202051048_AMI	Virtualization type hvm
Boot mode -	State reason -	Creation date Wed Sep 20 2023 18:05:53 GMT+0530 (India Standard Time)	Kernel ID -

Use copy AMI to use the instance in another region and configure the settings for Mumbai:

The screenshot shows the 'Copy AMI' dialog box in the AWS Management Console. The dialog is titled 'Copy Amazon Machine Image (AMI)' and contains the following information:

- Original AMI ID: ami-0ba66a3fd54494ad5 (202051048_AMI)
- AMI copy name: 202051048_AMI
- AMI copy description: [Copied ami-0ba66a3fd54494ad5 (202051048_AMI) from us-east-2] 202051048_AMI
- Destination Region: Asia Pacific (Mumbai)
- Copy tags: ☐ (Includes your user-defined AMI tags when copying the AMI.)
- Encrypt EBS snapshots of AMI copy: ☐ (Encrypts all snapshots in the AMI copy with the same key.)

Buttons: Cancel, Copy AMI

Launch the instance from AMI:

The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes 'New EC2 Experience', 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', 'AMIs', 'AMI Catalog', 'Elastic Block Store', 'Volumes', and 'Snapshots'. The main content area displays 'Amazon Machine Images (AMIs) (1/1) Info'. A table lists AMIs, with '202051048_AMI' (ami-0caf69695eda748d1) selected. The details pane for this AMI shows:

- AMI ID: ami-0caf69695eda748d1 (202051048_AMI)
- Image type: machine
- Platform details: Linux/UNIX
- Root device type: EBS
- AMI name: 202051048_AMI
- Owner account ID: 724667624949
- Architecture: x86_64
- Usage operation: RunInstances
- Root device name: /dev/sda1
- Status: Available
- Source: 724667624949/202051048_AMI
- Virtualization type: hvm
- Boot mode: --
- State reason: --
- Creation date: Wed Sep 20 2023 18:08:11 GMT+0530 (India Standard Time)
- Kernel ID: --
- Description: [Copied ami-0ba66a3fd54494ad5 (202051048_AMI) from us-east-1:202051048_AMI]
- Product codes: --
- RAM disk ID: --
- Deprecation time: --

The screenshot shows the 'Name and tags' page for the selected AMI. The 'Name' field contains '202051048_EC2'. The 'Application and OS Images (Amazon Machine Image) Info' section provides details about the AMI. The 'Summary' section on the right shows:

- Number of instances: 1
- Software Image (AMI): [Copied ami-0ba66a3fd54494ad5 ...read more ami-0caf69695eda748d1]
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

The 'Launch instance' button is highlighted in orange. A 'Free tier' notification is also visible.

The screenshot shows the 'Instances' page. A table lists instances, with '202051048_EC2' (i-0e883794412a1f9d1) selected. The details pane for this instance shows:

- Instance ID: i-0e883794412a1f9d1 (202051048_EC2)
- Instance state: Running
- Instance type: t2.micro
- Status check: 2/2 checks passed
- Alarm status: No alarms
- Availability Zone: ap-south-1b
- Public IPv4 DNS: ec2-13-233-153-64.ap-south-1.compute.amazonaws.com
- Public IPv4: 13.233.153.64
- Private IPv4: 172.31.1.98
- Public IPv4 DNS: ec2-13-233-153-64.ap-south-1.compute.amazonaws.com
- Elastic IP addresses: --
- Private IP DNS name (IPv4 only): ip-172-31-1-98.ap-south-1.compute.internal
- Instance type: t2.micro
- YDF ID: --

Configure the settings for nginx:

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