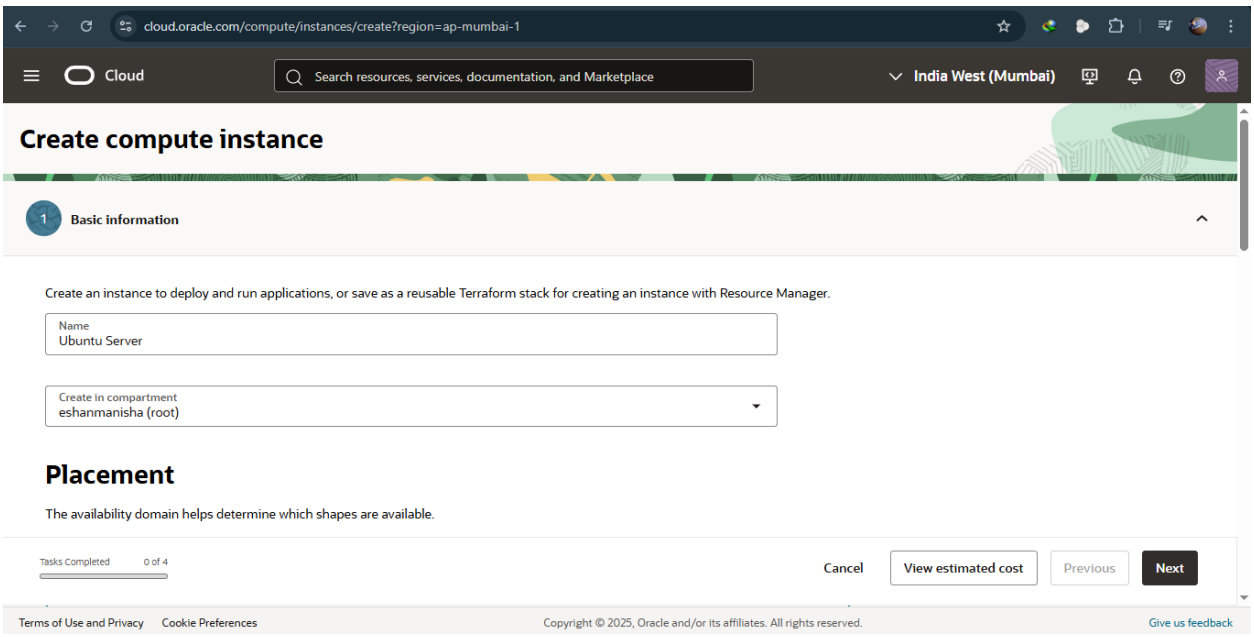
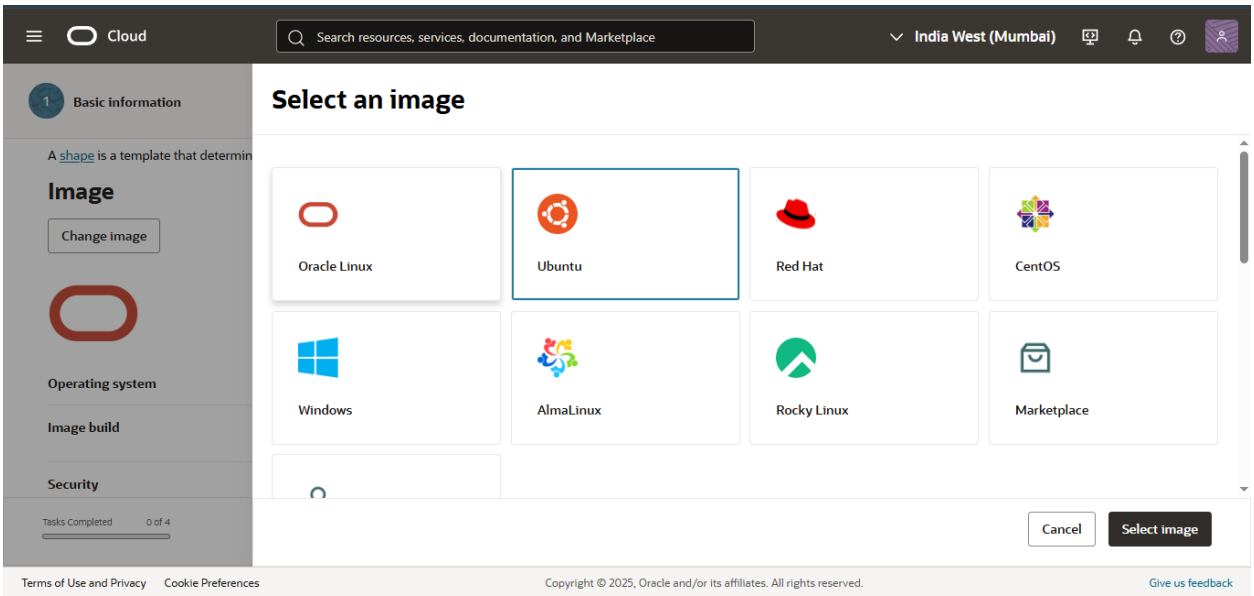
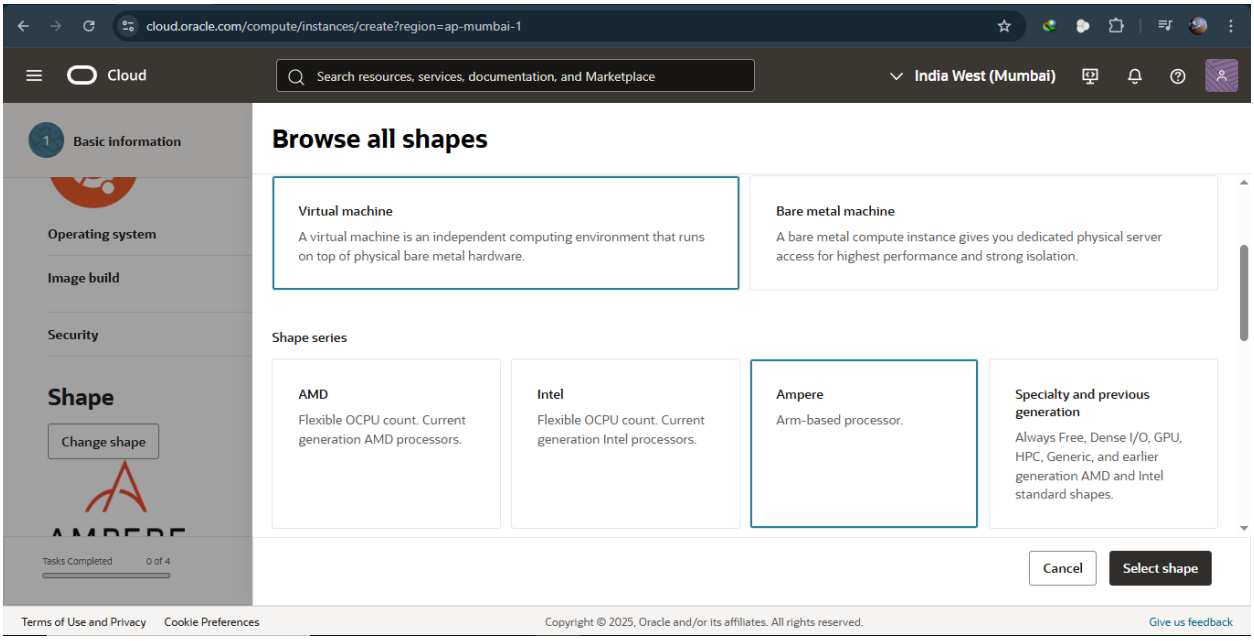
Oracle Cloud Web Server

Create vm in oracal






cloud.oracle.com/compute/instances/create?region=ap-mumbai-1
Cloud
Search resources, services, documentation, and Marketplace
India West (Mumbai)
Basic information
Operating system
Image build
Security
Shape
Change shape
Tasks Completed 0 of 4
Browse all shapes
Virtual machine
A virtual machine is an independent computing environment that runs on top of physical bare metal hardware.
Bare metal machine
A bare metal compute instance gives you dedicated physical server access for highest performance and strong isolation.
Shape series
AMD
Flexible OCPU count. Current generation AMD processors.
Intel
Flexible OCPU count. Current generation Intel processors.
Ampere
Arm-based processor.
Specialty and previous generation
Always Free, Dense I/O, GPU, HPC, Generic, and earlier generation AMD and Intel standard shapes.
Cancel
Select shape
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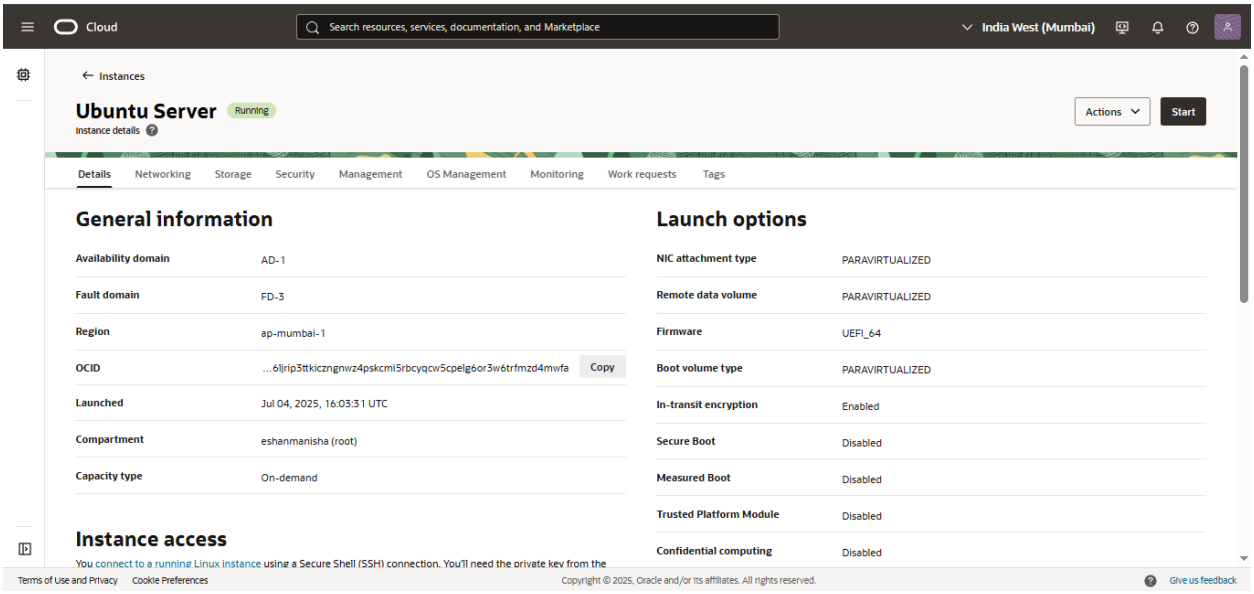
Cloud
Search resources, services, documentation, and Marketplace
India West (Mumbai)
Instances
Ubuntu Server
Running
Instance details
Actions
Start
Details
Networking
Storage
Security
Management
OS Management
Monitoring
Work requests
Tags
General information
Availability domain AD-1
Fault domain FD-3
Region ap-mumbai-1
OCID ...6ljrip3ttkicznqnwz4pskcmi5rbcyqcw5cpelg6or3w6trfmzd4mwfa Copy
Launched Jul 04, 2025, 16:03:31 UTC
Compartment eshanmanisha (root)
Capacity type On-demand
Launch options
NIC attachment type PARAVIRTUALIZED
Remote data volume PARAVIRTUALIZED
Firmware UEFI_64
Boot volume type PARAVIRTUALIZED
In-transit encryption Enabled
Secure Boot Disabled
Measured Boot Disabled
Trusted Platform Module Disabled
Confidential computing Disabled
Instance access
You connect to a running Linux instance using a Secure Shell (SSH) connection. You'll need the private key from the
Terms of Use and Privacy
Cookie Preferences
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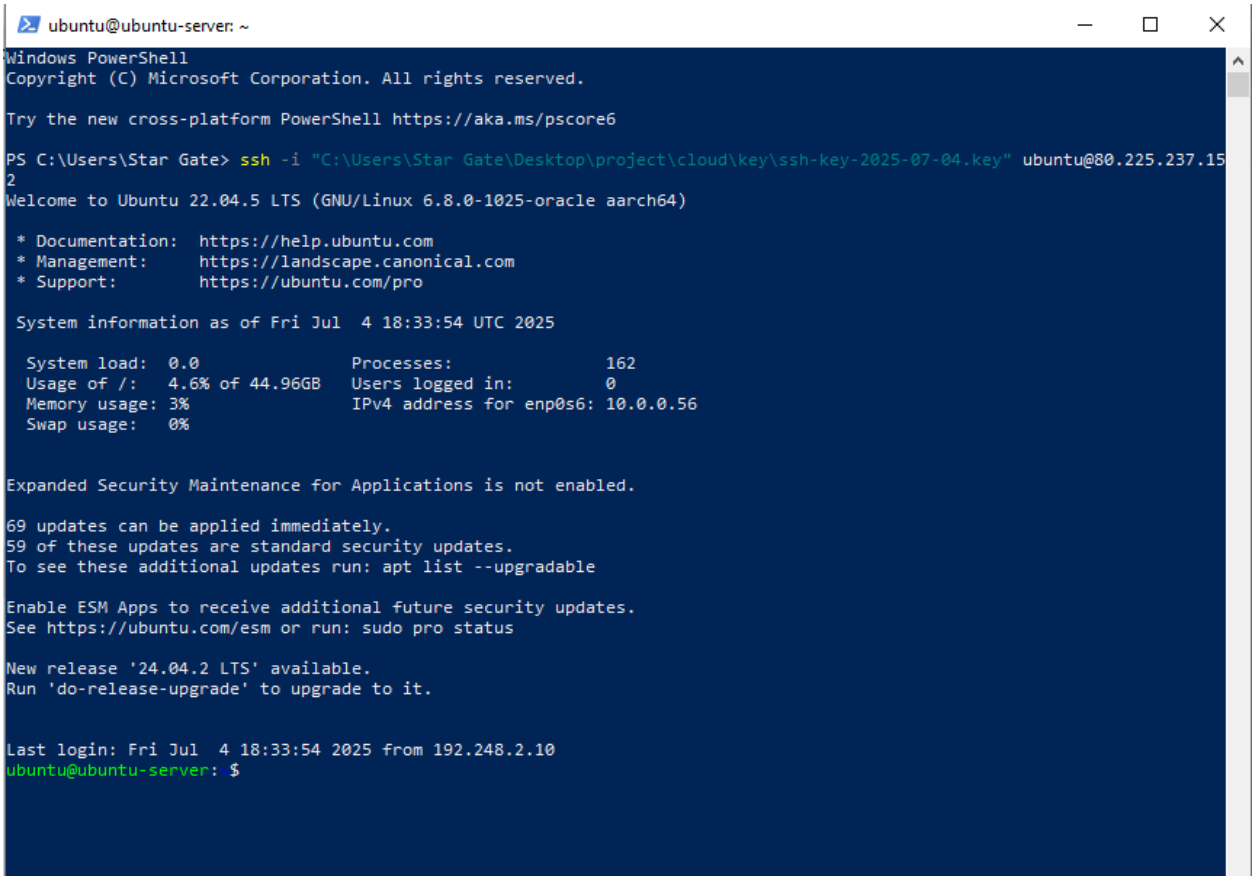
Give us feedback




```
ssh -i ~/Desktop/project/cloud/key/ssh-key-2025-07-04.key ubuntu@80.225.237.152
```

Docker Installation Guide for Ubuntu 22.04 LTS

1. Update package list and install prerequisites

```
sudo apt update
sudo apt install -y ca-certificates curl gnupg
```

- Updates the local list of packages
- Installs tools for secure downloads and package verification

2. Add Docker’s official GPG key

```
sudo install -m 0755 -d /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg
sudo chmod a+r /etc/apt/keyrings/docker.gpg
```

- Downloads and stores Docker’s secure GPG key

3. Set up Docker repository

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

- Adds Docker's official repository to your APT sources

4. Update the package index

```
sudo apt update
```

- Includes Docker repository in package searches

5. Install Docker Engine and plugins

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

- Installs Docker Engine, CLI, and useful plugins

6. Test Docker installation

sudo docker run hello-world

- Runs a test container to verify Docker is working

7. (Optional) Run Docker without sudo

sudo usermod -aG docker $USER
newgrp docker

- Lets your user run Docker without sudo

portainer

sudo docker volume create portainer_data

sudo docker run -d -p 8000:8000 -p 9443:9443 \

--name portainer \

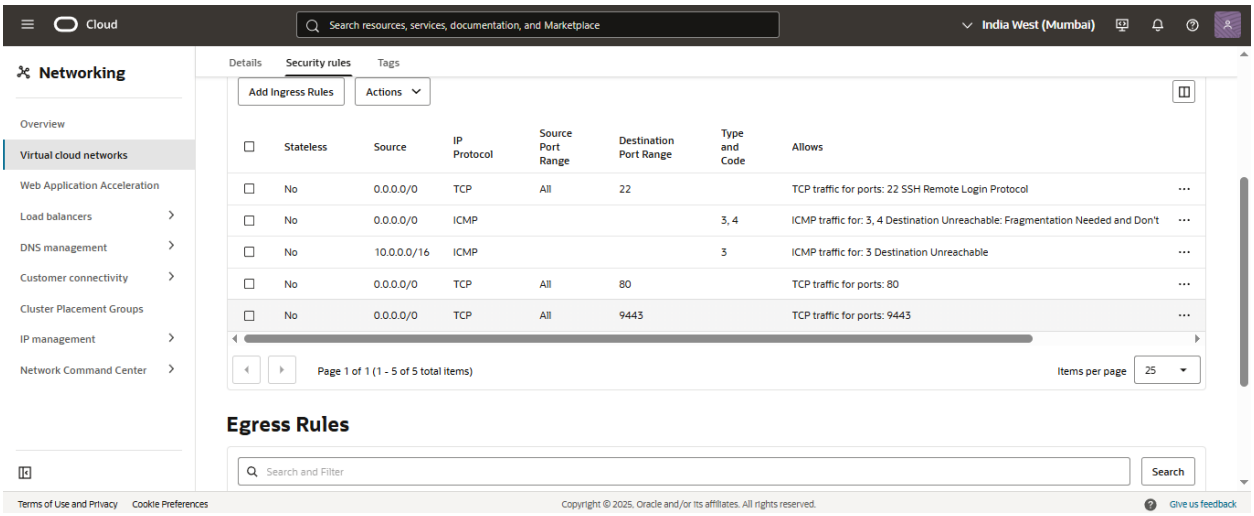
--restart=always \

-v /var/run/docker.sock:/var/run/docker.sock \

-v portainer_data:/data \

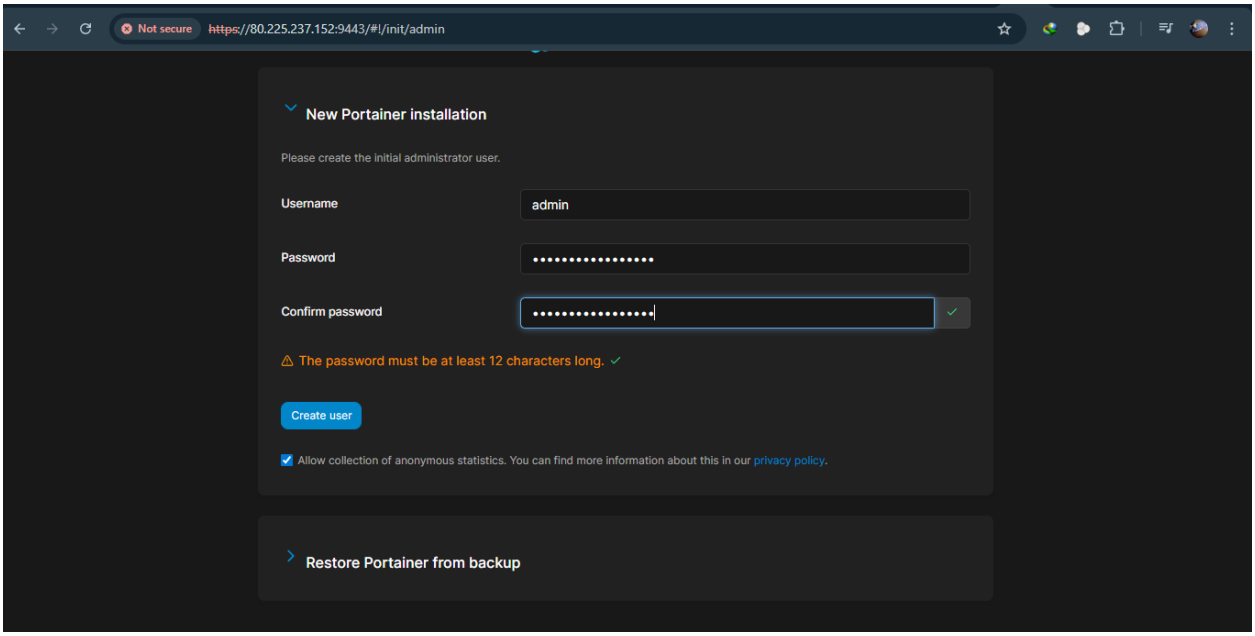
portainer/portainer-ce:latest

Set Port

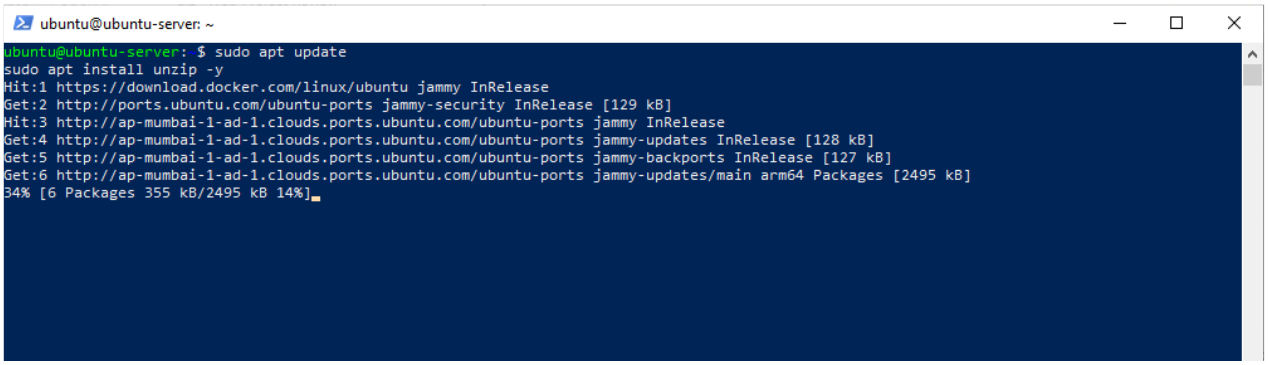


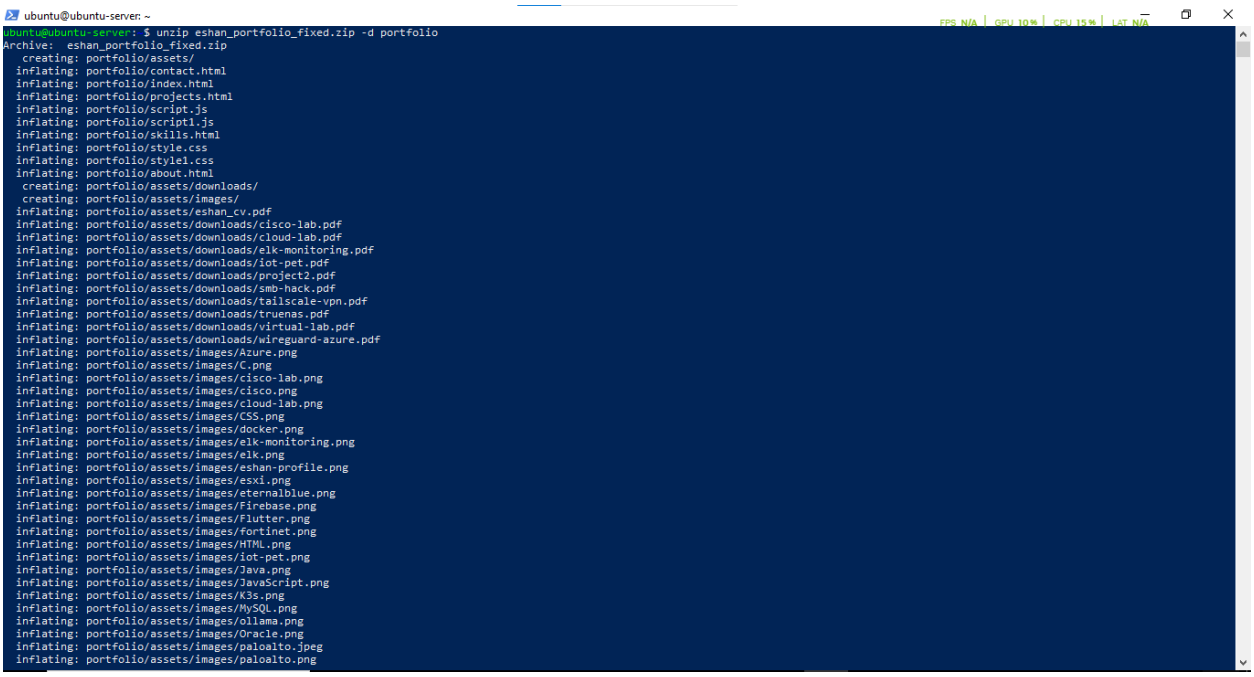
sudo docker ps

```
ubuntu@ubuntu-server: $ sudo docker ps
CONTAINER ID   IMAGE                          COMMAND        CREATED          STATUS          PORTS
      NAMES
e278cbc9732c   portainer/portainer-ce:latest  "/portainer"   3 minutes ago    Up 3 minutes    0.0.0.0:8000->8000/tcp, [::]:8000->8000/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->9443/tcp, 9000/
tcp   portainer
```



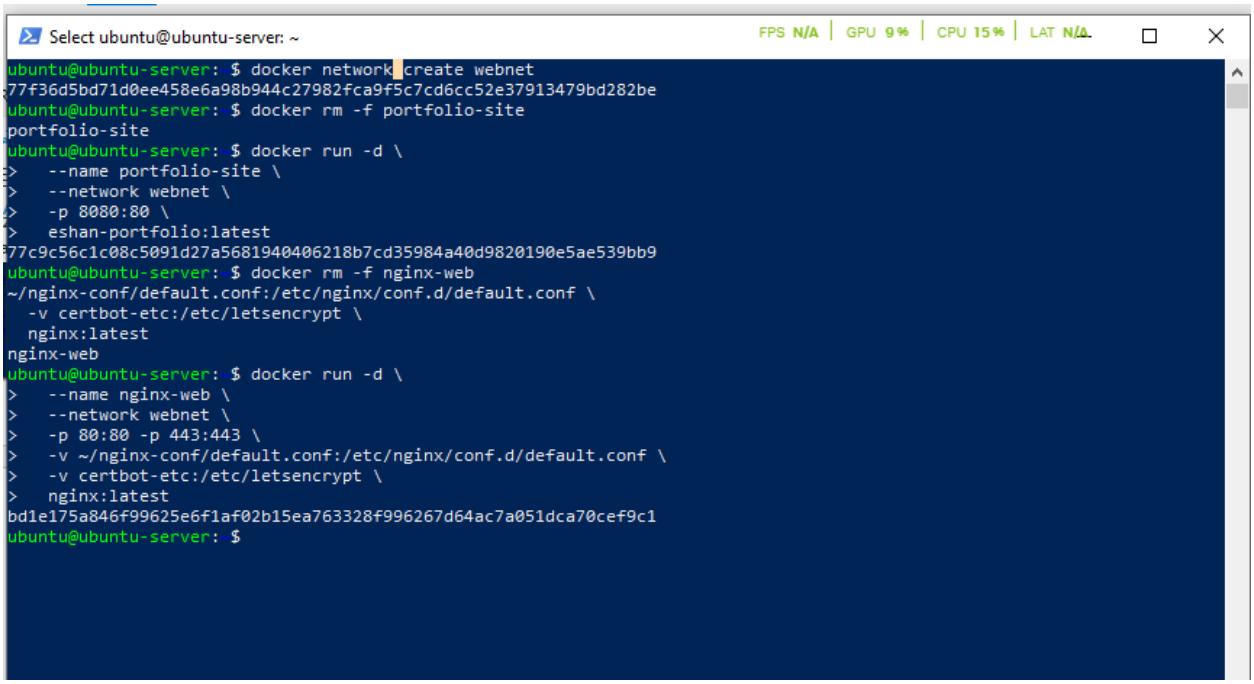
Upload a file to Ubuntu server




ubuntu@ubuntu-server: ~
FPS N/A | GPU 10 % | CPU 15 % | LAT N/A
ubuntu@ubuntu-server: $ unzip eshan_portfolio_fixed.zip -d portfolio
Archive: eshan_portfolio_fixed.zip
   creating: portfolio/assets/
  inflating: portfolio/contact.html
  inflating: portfolio/index.html
  inflating: portfolio/projects.html
  inflating: portfolio/script.js
  inflating: portfolio/script1.js
  inflating: portfolio/skills.html
  inflating: portfolio/style.css
  inflating: portfolio/style1.css
  inflating: portfolio/about.html
   creating: portfolio/assets/downloads/
   creating: portfolio/assets/images/
  inflating: portfolio/assets/eshan_cv.pdf
  inflating: portfolio/assets/downloads/cisco-lab.pdf
  inflating: portfolio/assets/downloads/cloud-lab.pdf
  inflating: portfolio/assets/downloads/elk-monitoring.pdf
  inflating: portfolio/assets/downloads/iot-pet.pdf
  inflating: portfolio/assets/downloads/project2.pdf
  inflating: portfolio/assets/downloads/smb-hack.pdf
  inflating: portfolio/assets/downloads/tailscale-vpn.pdf
  inflating: portfolio/assets/downloads/truenas.pdf
  inflating: portfolio/assets/downloads/virtual-lab.pdf
  inflating: portfolio/assets/downloads/wireguard-azure.pdf
  inflating: portfolio/assets/images/Azure.png
  inflating: portfolio/assets/images/C.png
  inflating: portfolio/assets/images/cisco-lab.png
  inflating: portfolio/assets/images/cisco.png
  inflating: portfolio/assets/images/cloud-lab.png
  inflating: portfolio/assets/images/CSS.png
  inflating: portfolio/assets/images/docker.png
  inflating: portfolio/assets/images/elk-monitoring.png
  inflating: portfolio/assets/images/elk.png
  inflating: portfolio/assets/images/eshan-profile.png
  inflating: portfolio/assets/images/esxi.png
  inflating: portfolio/assets/images/eternalblue.png
  inflating: portfolio/assets/images/Firebase.png
  inflating: portfolio/assets/images/Flutter.png
  inflating: portfolio/assets/images/fortinet.png
  inflating: portfolio/assets/images/HTML.png
  inflating: portfolio/assets/images/iot-pet.png
  inflating: portfolio/assets/images/Java.png
  inflating: portfolio/assets/images/JavaScript.png
  inflating: portfolio/assets/images/K3s.png
  inflating: portfolio/assets/images/MySQL.png
  inflating: portfolio/assets/images/ollama.png
  inflating: portfolio/assets/images/Oracle.png
  inflating: portfolio/assets/images/paloalto.jpeg
  inflating: portfolio/assets/images/paloalto.png


ubuntu@ubuntu-server: ~/portfolio
ubuntu@ubuntu-server:~/portfolio$

Created Docker Network



1.Created a Shared Room

docker network create webnet

This created a new *custom bridge network* (room) called webnet.

2.Recreated Both People Inside the Same Room

Portfolio Site:

docker run -d \

--name portfolio-site \

--network webnet \

-p 8080:80 \

eshan-portfolio:latest

Nginx Web:

docker run -d \

--name nginx-web \

--network webnet \

-p 80:80 -p 443:443 \

-v ... \

nginx:latest

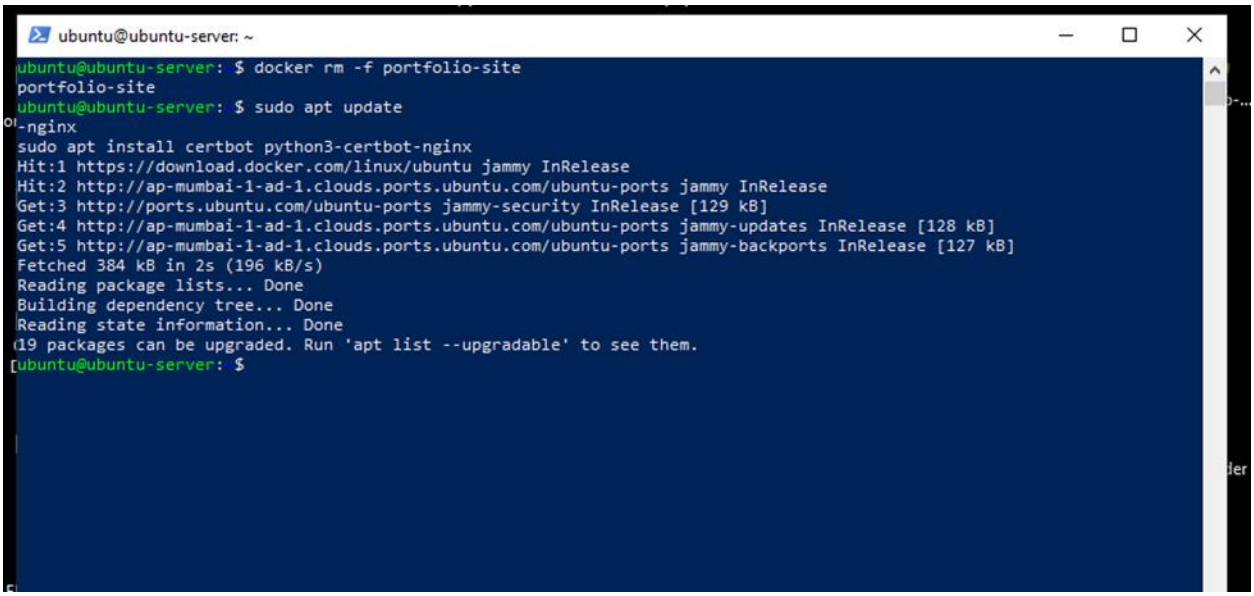
SSL certificates

This holds your SSL certificates:

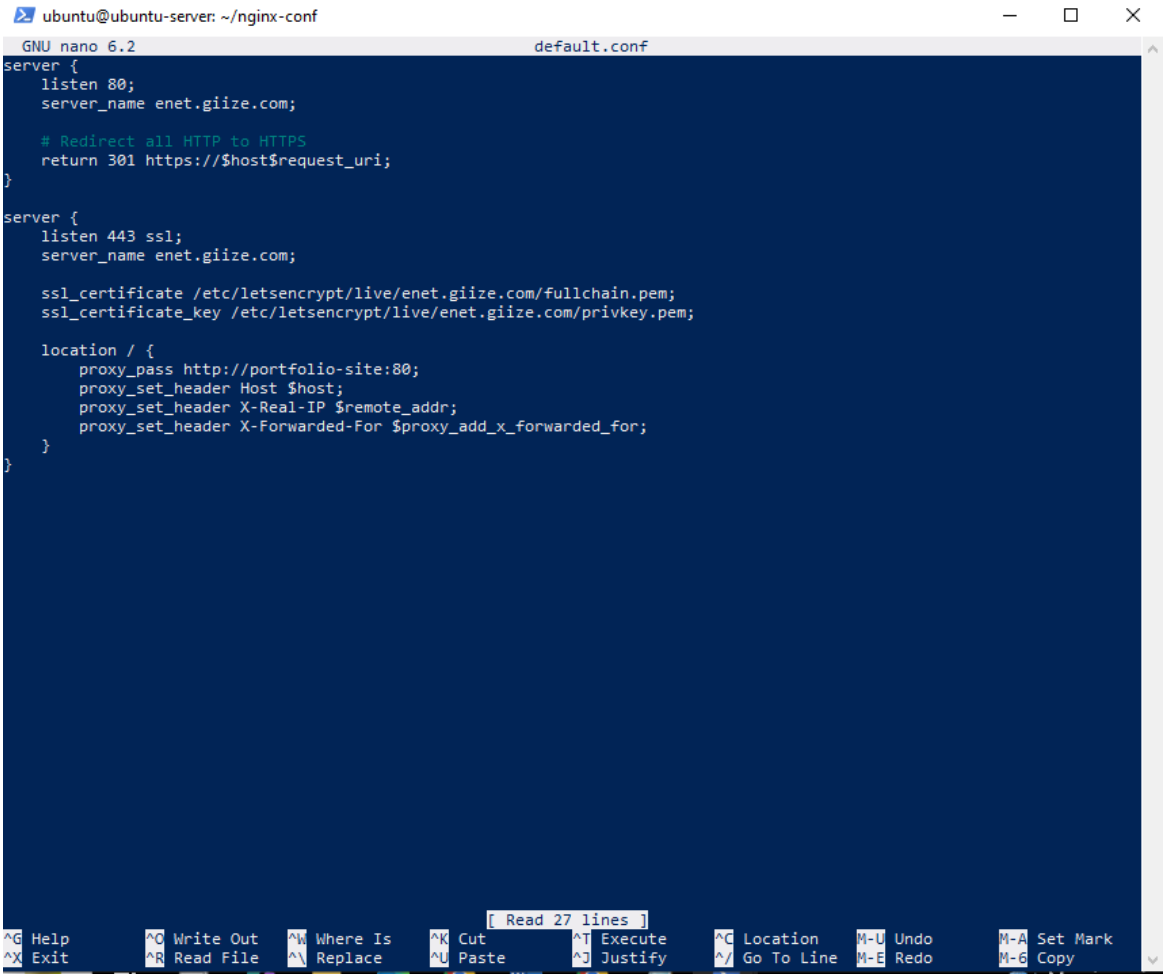
docker volume create certbot-etc

Make sure port 80 is open and Nginx is running:

```
docker run --rm -it \
 -v certbot-etc:/etc/letsencrypt \
 -v /var/lib/letsencrypt:/var/lib/letsencrypt \
 -v /var/www/certbot:/var/www/certbot \
 certbot/certbot certonly \
 --webroot -w /var/www/certbot \
 -d enet.giize.com \
 --email your-email@gmail.com \
 --agree-tos --no-eff-email
```



Update Nginx Config with SSL


ubuntu@ubuntu-server: ~/nginx-conf
GNU nano 6.2 default.conf
server {
listen 80;
server_name enet.giize.com;
Redirect all HTTP to HTTPS
return 301 https://$host$request_uri;
}
server {
listen 443 ssl;
server_name enet.giize.com;
ssl_certificate /etc/letsencrypt/live/enet.giize.com/fullchain.pem;
ssl_certificate_key /etc/letsencrypt/live/enet.giize.com/privkey.pem;
location / {
proxy_pass http://portfolio-site:80;
proxy_set_header Host $host;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
}
}
[Read 27 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy