

Docker Task -2

Launch Instance:

The screenshot shows the AWS EC2 'Launch an instance' wizard. The current step is 'Summary'. The summary panel includes:

- Number of instances:** 1
- Software Image (AMI):** Amazon Linux 2023 AMI 2023.6... (ami-05b10e08d247fb927)
- Virtual server type (instance type):** t2.micro
- Firewall (security group):** New security group
- Storage (volumes):** 1 volume(s) - 8 GiB

At the bottom right are 'Cancel', 'Launch instance', and 'Preview code' buttons.

The screenshot shows the 'Amazon Machine Image (AMI)' selection step. It lists several AMI options:

- Amazon Linux
- macOS
- Ubuntu
- Windows
- Red Hat
- SUSE Linux
- Debian

A search bar at the top says 'Search our full catalog including 1000s of application and OS images'. Below the AMI list is a 'Browse more AMIs' section.

The screenshot shows the 'Instance type' selection step. It highlights the **t2.micro** instance type, which is described as having 1 vCPU, 1 GiB Memory, and being part of the t2 family. It also lists other options like On-Demand Windows base pricing, On-Demand Ubuntu Pro base pricing, and On-Demand SUSE base pricing.

At the bottom right are 'Cancel', 'Launch instance', and 'Preview code' buttons.

GUVI Docker Task -2 - Google Docs Untitled document - Google Docs Launch an instance | EC2 | us-east-1 LaunchInstances: Search [Alt+S] United States (N. Virginia) srikanth kolluri

EC2 Instances Launch an instance 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 Select Create new key pair Proceed without a key pair (Not recommended) Default value Edit LINUX-KEY Type: rsa vpc-07f2dc389716a7f01 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

▼ Summary Number of instances | Info 1 Software Image (AMI) Canonical, Ubuntu, 24.04, amd6...read more ami-04b4ff1a9cf54c11d0 Virtual server type (instance type) t2.micro Firewall (security group) New security group Storage (volumes) 1 volume(s) - 8 GiB

Cancel Launch instance Preview code

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GUVI Docker Task -2 - Google Docs Untitled document - Google Docs Launch an instance | EC2 | us-east-1 LaunchInstances: Search [Alt+S] United States (N. Virginia) srikanth kolluri

EC2 Instances Launch an instance

Key pair name - required LINUX-KEY Create new key pair

▼ Network settings Info Network | Info vpc-07f2dc389716a7f01 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-1' 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

▼ Summary Number of instances | Info 1 Software Image (AMI) Canonical, Ubuntu, 24.04, amd6...read more ami-04b4ff1a9cf54c11d0 Virtual server type (instance type) t2.micro Firewall (security group) New security group Storage (volumes) 1 volume(s) - 8 GiB

Cancel Launch instance Preview code

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Screenshot of the AWS CloudWatch Instances console showing the launch of an EC2 instance.

Success
Successfully initiated launch of instance (i-05c320a9fb12b0b2e)

Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)

Connect to your instance
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots.
[Create EBS snapshot policy](#)

Manage detailed monitoring

Create Load Balancer

Create AWS budget

Manage CloudWatch alarms

Instances (1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
TEST-VM	i-05c320a9fb12b0b2e	Running	t2.micro	Initializing	View alarms +	us-east-1c	ec2-34-2

Select an instance

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Instance summary for i-05c320a9fb12b0b2e (TEST-VM) [Info](#)

Updated less than a minute ago

Instance ID	i-05c320a9fb12b0b2e	Public IPv4 address	34.238.250.244 open address
IPv6 address	-	Instance state	Running
Hostname type	IP name: ip-172-31-80-167.ec2.internal	Private IP DNS name (IPv4 only)	ip-172-31-80-167.ec2.internal
Answer private resource DNS name	IPv4 (A)	Instance type	t2.micro
Auto-assigned IP address	34.238.250.244 [Public IP]	VPC ID	vpc-07f2dc389716a7f01
IAM Role	-	Subnet ID	subnet-0e07ae45177b4d083
IMDSv2	Required	Instance ARN	arn:aws:ec2:us-east-1:905418201986:instance/i-05c320a9fb12b0b2e
			Elastic IP addresses -
			AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendation
			Auto Scaling Group name -
			Managed false

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Connect the VM

Connect to instance [Info](#)

Connect to your instance i-05c320a9fb12b0b2e (TEST-VM) using any of these options

EC2 Instance Connect	Session Manager	SSH client	EC2 serial console
--------------------------------------	---------------------------------	----------------------------	------------------------------------

Instance ID
[i-05c320a9fb12b0b2e](#) (TEST-VM)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is **LINUX-KEY.pem**.
3. Run this command, if necessary, to ensure your key is not publicly viewable.
[chmod 400 "LINUX-KEY.pem"](#)
4. Connect to your instance using its Public DNS:
[ec2-34-238-250-244.compute-1.amazonaws.com](#)

Example:
[ssh -i "LINUX-KEY.pem" ubuntu@ec2-34-238-250-244.compute-1.amazonaws.com](#)

Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

[Cancel](#)

CloudShell Feedback

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```
ubuntu@ip-172-31-80-167:~  
Microsoft Windows [Version 10.0_20100_3194]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\mouni\Downloads>cd Downloads  
C:\Users\mouni\Downloads>ssh -i "LINUX-KEY.pem" ubuntu@ec2-34-238-250-244.compute-1.amazonaws.com  
The authenticity of host 'ec2-34-238-250-244.compute-1.amazonaws.com (34.238.250.244)' can't be established.  
ED25519 key fingerprint is SHA256:V091LwCxTB8KB#MfxNGsP/1sd6dTqUrgZlQ4GGxA.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'ec2-34-238-250-244.compute-1.amazonaws.com' (ED25519) to the list of known hosts.  
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.6.0-1021-aws x86_64)  
  
* Documentation: https://help.ubuntu.com  
* Management: https://landscape.canonical.com  
* Support: https://ubuntu.com/pro  
  
System information as of Fri Mar 7 17:28:31 UTC 2025  
  
System load: 0.21 Processes: 107  
Usage of /: 24.9% of 6.71GB Users logged in: 0  
Memory usage: 22% IPv4 address for enX0: 172.31.80.167  
Swap usage: 0%  
  
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-172-31-80-167:~
```



To Install Docker:

\$ sudo apt-get update

```
ubuntu@ip-172-31-80-167:~  
Select ubuntu@ip-172-31-80-167:  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
ubuntu@ip-172-31-80-167:~$ sudo apt-get update  
Hit:1 http://us-east-1.ec2.archive/ubuntu.com/ubuntu noble InRelease [126 kB]  
Get:2 http://us-east-1.ec2.archive/ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:3 http://security.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:4 http://security.ubuntu.com/ubuntu/noble-security InRelease [126 kB]  
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]  
Get:6 http://security.ubuntu.com/ubuntu/noble-security/main amd64 Packages [668 kB]  
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/universe Translation-en [5982 kB]  
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/universe amd64 Components [3871 kB]  
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/universe amd64 c-n-f Metadata [301 kB]  
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/multiverse amd64 Packages [269 kB]  
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/multiverse Translation-en [118 kB]  
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/multiverse amd64 Components [101 kB]  
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/multiverse amd64 Metadata [328 B]  
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/main amd64 Packages [916 kB]  
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/main Translation-en [5984 kB]  
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/main amd64 Components [151 kB]  
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/universe amd64 Packages [1036 kB]  
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/universe Translation-en [260 kB]  
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/universe amd64 Components [364 kB]  
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/universe amd64 c-n-f Metadata [19.9 kB]  
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/restricted amd64 Packages [753 kB]  
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/restricted Translation-en [150 kB]  
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/restricted amd64 Components [212 B]  
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/multiverse amd64 Packages [30.1 kB]  
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/multiverse Translation-en [5984 kB]  
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/multiverse amd64 Components [949 B]  
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/main amd64 Metadata [152 B]  
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/main amd64 Components [201 B]  
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/main amd64 c-n-f Metadata [112 B]  
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/universe amd64 Packages [14.2 kB]  
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/universe Translation-en [121.2 kB]  
Get:32 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/universe amd64 Components [19.9 kB]  
Get:33 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/universe amd64 c-n-f Metadata [1104 B]  
Get:34 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/restricted amd64 Components [212 B]  
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/restricted amd64 c-n-f Metadata [116 B]  
Get:36 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/multiverse amd64 Components [212 B]  
Get:37 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-backports/multiverse amd64 c-n-f Metadata [116 B]  
Get:38 http://security.ubuntu.com/ubuntu/noble-security/main Translation-en [128 kB]  
Get:39 http://security.ubuntu.com/ubuntu/noble-security/main amd64 Components [9004 B]  
Get:40 http://security.ubuntu.com/ubuntu/noble-security/main Translation-en [873 kB]  
Get:41 http://security.ubuntu.com/ubuntu/noble-security/universe amd64 Packages [877 kB]  
Get:42 http://security.ubuntu.com/ubuntu/noble-security/universe amd64 Components [51.9 kB]  
Get:43 http://security.ubuntu.com/ubuntu/noble-security/universe amd64 c-n-f Metadata [13.5 kB]  
Get:44 http://security.ubuntu.com/ubuntu/noble-security/restricted amd64 Packages [719 kB]
```



```
ca Select ubuntu@ip-172-31-80-167: ~
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1036 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [260 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [364 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [19.9 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [753 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [150 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [12.8 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [30.4 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [5984 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [948 kB]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 kB]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [14.2 kB]
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [12.1 kB]
Get:32 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [19.9 kB]
Get:33 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1104 kB]
Get:34 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [212 kB]
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 kB]
Get:36 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 kB]
Get:37 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 kB]
Get:38 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [128 kB]
Get:39 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [9004 kB]
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [822 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [177 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [719 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [143 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 kB]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [26.2 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4892 kB]
Get:49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 kB]
Get:50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 kB]
Fetched 32.7 MB in 6s (5102 kB/s)
Reading package lists... Done
Ubuntu@ip-172-31-80-167:~
```

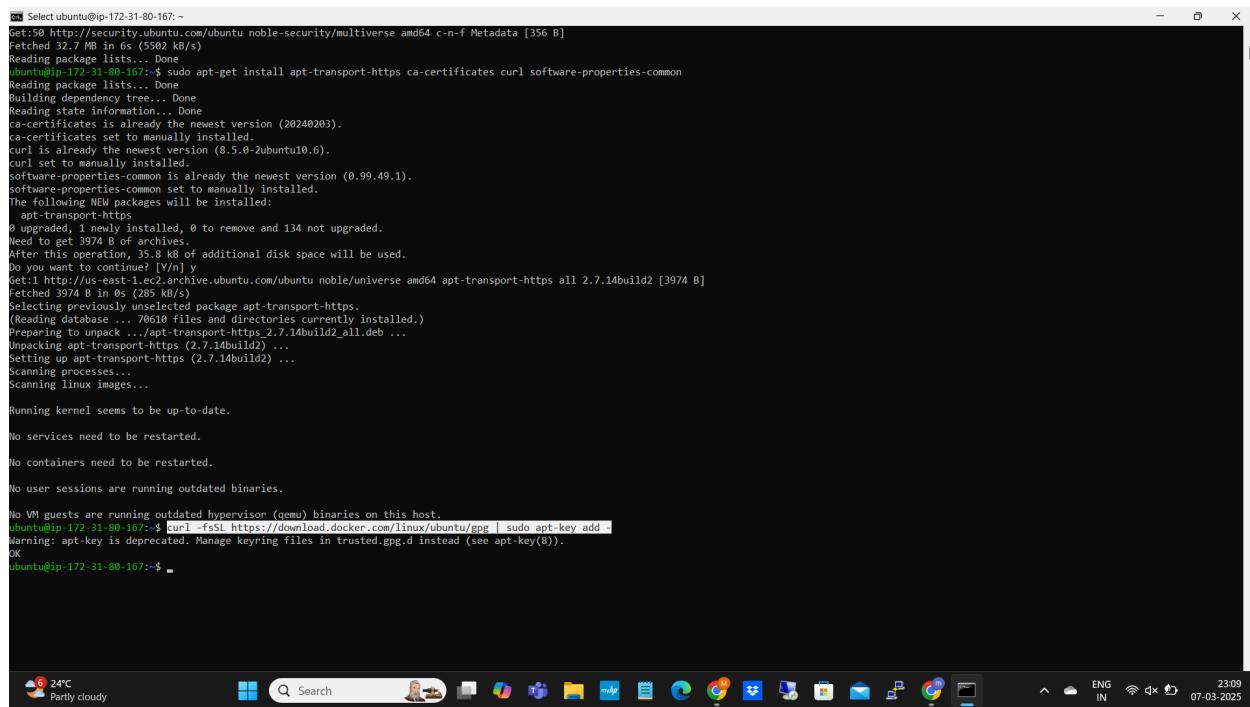
Install dependencies for docker installation:

```
$ sudo apt-get install apt-transport-https ca-certificates curl software-properties-common
```

```
ca Select ubuntu@ip-172-31-80-167: ~
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [822 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [177 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [719 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [143 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 kB]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [26.2 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4892 kB]
Get:49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 kB]
Get:50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 kB]
Fetched 32.7 MB in 6s (5102 kB/s)
Reading package lists... Done
Ubuntu@ip-172-31-80-167:~ $ sudo apt-get install apt-transport-https ca-certificates curl software-properties-common
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203).
ca-certificates set to manually installed.
curl is already the newest version (8.5.0-2ubuntu10.6).
curl set to manually installed.
software-properties-common is already the newest version (0.99.49.1).
software-properties-common set to manually installed.
The following NEW packages will be installed:
  apt-transport-https
0 upgraded, 1 newly installed, 0 to remove and 134 not upgraded.
Need to get 3974 B of archives.
After this operation, 35.8 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 apt-transport-https all 2.7.14build2 [3974 B]
Fetched 3974 B in 0s (285 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 70610 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.7.14build2_all.deb ...
Unpacking apt-transport-https (2.7.14build2) ...
Setting up apt-transport-https (2.7.14build2) ...
Scanning processes...
Scanning linux images...
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-172-31-80-167:~
```

Added Docker gpg official key

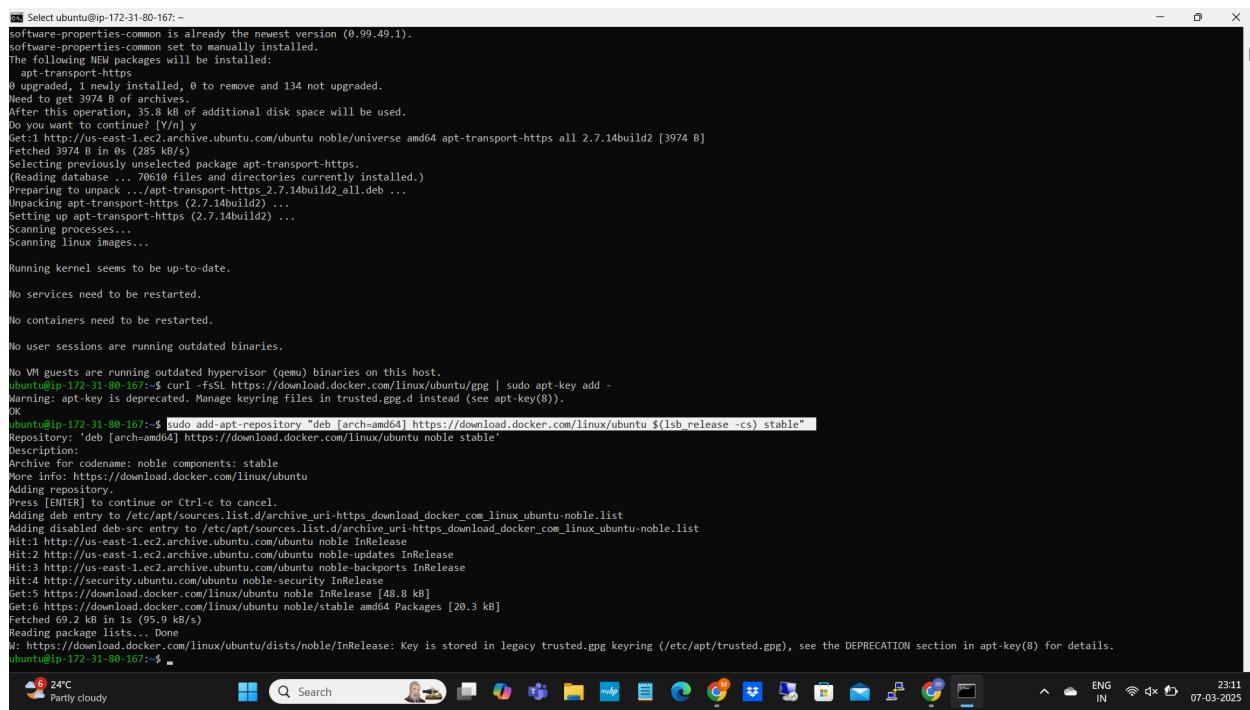
```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```



```
Select ubuntu@ip-172-31-80-167:~  
Get:5 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 B]  
Fetched 32.7 MB in 0s (5082 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
ca-certificates is already the newest version (20240203).  
ca-certificates set to manually installed.  
curl is already the newest version (9.5.0-2ubuntu10.6).  
curl set to manually installed.  
software-properties-common is already the newest version (0.99.49.1).  
software-properties-common set to manually installed.  
The following NEW packages will be installed:  
  apt-transport-https  
0 upgraded, 1 newly installed, 0 to remove and 134 not upgraded.  
Need to get 3974 B of archives.  
After this operation, 35.8 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 apt-transport-https all 2.7.14build2 [3974 B]  
Fetched 3974 B in 0s (285 kB/s)  
Selecting previously unselected package apt-transport-https.  
(Reading database ... 70610 files and directories currently installed.)  
Preparing to unpack .../apt-transport-https_2.7.14build2_all.deb ...  
Unpacking apt-transport-https (2.7.14build2) ...  
Setting up apt-transport-https (2.7.14build2) ...  
Scanning processes...  
Scanning linux images...  
  
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-172-31-80-167:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -  
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).  
OK  
ubuntu@ip-172-31-80-167:~$
```

Setup the stable Repository:

```
sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu  
$(lsb_release -cs) stable"
```



```
Select ubuntu@ip-172-31-80-167:~  
software-properties-common is already the newest version (0.99.49.1).  
software-properties-common set to manually installed.  
The following NEW packages will be installed:  
  apt-transport-https  
0 upgraded, 1 newly installed, 0 to remove and 134 not upgraded.  
Need to get 3974 B of archives.  
After this operation, 35.8 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 apt-transport-https all 2.7.14build2 [3974 B]  
Fetched 3974 B in 0s (285 kB/s)  
Selecting previously unselected package apt-transport-https.  
(Reading database ... 70610 files and directories currently installed.)  
Preparing to unpack .../apt-transport-https_2.7.14build2_all.deb ...  
Unpacking apt-transport-https (2.7.14build2) ...  
Setting up apt-transport-https (2.7.14build2) ...  
Scanning processes...  
Scanning linux images...  
  
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-172-31-80-167:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -  
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).  
OK  
ubuntu@ip-172-31-80-167:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"  
Repository: 'deb [arch=amd64] https://download.docker.com/linux/ubuntu noble stable'  
Description:  
Archive for codename: noble components: stable  
More info: https://download.docker.com/linux/ubuntu  
Adding repository.  
Press [ENTER] to continue or Ctrl-c to cancel.  
Adding deb entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-noble.list  
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-noble.list  
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease  
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease  
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease  
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease  
Get:5 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]  
Get:6 https://download.docker.com/linux/ubuntu/noble/stable amd64 Packages [20.3 kB]  
Fetched 69.2 kB in 0s (95.9 kB/s)  
Reading package lists... Done  
W: https://download.docker.com/linux/ubuntu/dists/noble/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.  
ubuntu@ip-172-31-80-167:~$
```

Install docker:

\$sudo apt-get update

```
ca Select ubuntu@ip-172-31-80-167:~  
ubuntu@ip-172-31-80-167:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"  
Repository 'deb [arch=amd64] https://download.docker.com/linux/ubuntu noble' stable  
Description:  
  Archives for codename: noble components: stable  
  More info: https://download.docker.com/linux/ubuntu  
Adding repository  
Press [ENTER] to continue or Ctrl-c to cancel.  
Adding deb entry to /etc/apt/sources.list.d/archive_ubuntu-https_download_docker_com_linux_ubuntu-noble.list  
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_ubuntu-https_download_docker_com_linux_ubuntu-noble.list  
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease  
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease  
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease  
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease  
Get:5 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]  
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [20.3 kB]  
Fetched 69.1 kB in 0s (95.9 kB/s)  
Reading package lists... Done  
W: https://download.docker.com/linux/ubuntu/dists/noble/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.  
ubuntu@ip-172-31-80-167:~$ sudo apt-get update  
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease  
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease  
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-security InRelease  
Hit:4 http://security.ubuntu.com/ubuntu noble InRelease  
Hit:5 https://download.docker.com/linux/ubuntu noble InRelease  
Reading package lists... Done  
W: https://download.docker.com/linux/ubuntu/dists/noble/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.  
ubuntu@ip-172-31-80-167:~$ sudo apt-get install docker-ce  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  containerd.io docker-buildx-plugin docker-ce cli docker-ce-rootless-extras docker-compose-plugin libltdl7 libslirp0 pigz slirp4netns  
Suggested packages:  
  cgroups-mount | cgroup-lite  
The following NEW packages will be installed:  
  containerd.io docker-buildx-plugin docker-ce cli docker-ce-rootless-extras docker-compose-plugin libltdl7 libslirp0 pigz slirp4netns  
0 upgraded, 10 newly installed, 0 to remove and 134 not upgraded.  
Need to get 120 MB of archives.  
After this operation, 438 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]  
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libltdl7 amd64 2.4.7~7build1 [40.3 kB]  
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libslirp0 amd64 4.7.0~ubuntu3 [63.8 kB]  
Get:4 https://download.docker.com/linux/ubuntu/noble/stable amd64 containerd.io amd64 1.7.25-1 [29.6 MB]  
Get:5 https://us-east-1.ec2.archive.ubuntu.com/ubuntu/universe amd64 slirp4netns amd64 1.2.1~1~builid2 [34.9 kB]  
Get:6 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-buildx-plugin amd64 0.21.1-1~ubuntu.24.04-noble [35.3 MB]  
Get:7 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-ce cli amd64 5:28.0.1-1~ubuntu.24.04-noble [15.7 MB]  
Get:8 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-ce-rootless-extras amd64 5:28.0.1-1~ubuntu.24.04-noble [19.1 MB]  
Get:9 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-compose-plugin amd64 2.33.1-1~ubuntu.24.04-noble [6086 kB]  
Fetched 120 MB in 2s (79.9 MB/s)  
Selecting previously unselected package pigz.  
(Reading database ... 70614 files and directories currently installed.)  
Preparing to unpack .../pigz_2.8-1_amd64.deb ...  
Unpacking pigz (2.8-1) ...  
Selecting previously unselected package containerd.io.  
Preparing to unpack .../1-containerd.io_1.7.25-1_amd64.deb ...  
Unpacking containerd.io_1.7.25-1_amd64.deb ...  
Selecting previously unselected package docker-buildx-plugin.  
Preparing to unpack .../2-docker-buildx-plugin_0.21.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-buildx-plugin (0.21.1-1~ubuntu.24.04-noble) ...  
Selecting previously unselected package docker-ce-cli.  
Preparing to unpack .../3-docker-ce-cli_5~28.0.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-ce-cli (5:28.0.1-1~ubuntu.24.04-noble) ...  
Selecting previously unselected package docker-ce-rootless-extras.  
Preparing to unpack .../5-docker-ce-rootless-extras_5~28.0.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-ce-rootless-extras (5:28.0.1-1~ubuntu.24.04-noble) ...  
Selecting previously unselected package docker-compose-plugin.  
Preparing to unpack .../6-docker-compose-plugin_2.33.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-compose-plugin (2.33.1-1~ubuntu.24.04-noble) ...
```

\$sudo apt-get install docker-ce

```
ca Select ubuntu@ip-172-31-80-167:~  
Reading package lists... Done  
W: https://download.docker.com/linux/ubuntu/dists/noble/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.  
ubuntu@ip-172-31-80-167:~$ sudo apt-get install docker-ce  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  containerd.io docker-buildx-plugin docker-ce cli docker-ce-rootless-extras docker-compose-plugin libltdl7 libslirp0 pigz slirp4netns  
Suggested packages:  
  cgroups-mount | cgroup-lite  
The following NEW packages will be installed:  
  containerd.io docker-buildx-plugin docker-ce cli docker-ce-rootless-extras docker-compose-plugin libltdl7 libslirp0 pigz slirp4netns  
0 upgraded, 10 newly installed, 0 to remove and 134 not upgraded.  
Need to get 120 MB of archives.  
After this operation, 438 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]  
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libltdl7 amd64 2.4.7~7build1 [40.3 kB]  
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/main amd64 libslirp0 amd64 4.7.0~ubuntu3 [63.8 kB]  
Get:4 https://download.docker.com/linux/ubuntu/noble/stable amd64 containerd.io amd64 1.7.25-1 [29.6 MB]  
Get:5 https://us-east-1.ec2.archive.ubuntu.com/ubuntu/universe amd64 slirp4netns amd64 1.2.1~1~builid2 [34.9 kB]  
Get:6 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-buildx-plugin amd64 0.21.1-1~ubuntu.24.04-noble [35.3 MB]  
Get:7 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-ce cli amd64 5:28.0.1-1~ubuntu.24.04-noble [15.7 MB]  
Get:8 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-ce-rootless-extras amd64 5:28.0.1-1~ubuntu.24.04-noble [19.1 MB]  
Get:9 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-compose-plugin amd64 2.33.1-1~ubuntu.24.04-noble [6086 kB]  
Get:10 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-compose-plugin omd64 2.33.1-1~ubuntu.24.04-noble [13.9 MB]  
Fetched 120 MB in 2s (79.9 MB/s)  
Selecting previously unselected package pigz.  
(Reading database ... 70614 files and directories currently installed.)  
Preparing to unpack .../pigz_2.8-1_amd64.deb ...  
Unpacking pigz (2.8-1) ...  
Selecting previously unselected package containerd.io.  
Preparing to unpack .../1-containerd.io_1.7.25-1_amd64.deb ...  
Unpacking containerd.io_1.7.25-1_amd64.deb ...  
Selecting previously unselected package docker-buildx-plugin.  
Preparing to unpack .../2-docker-buildx-plugin_0.21.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-buildx-plugin (0.21.1-1~ubuntu.24.04-noble) ...  
Selecting previously unselected package docker-ce-cli.  
Preparing to unpack .../3-docker-ce-cli_5~28.0.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-ce-cli (5:28.0.1-1~ubuntu.24.04-noble) ...  
Selecting previously unselected package docker-ce-rootless-extras.  
Preparing to unpack .../5-docker-ce-rootless-extras_5~28.0.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-ce-rootless-extras (5:28.0.1-1~ubuntu.24.04-noble) ...  
Selecting previously unselected package docker-compose-plugin.  
Preparing to unpack .../6-docker-compose-plugin_2.33.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-compose-plugin (2.33.1-1~ubuntu.24.04-noble) ...
```

```
ca Select ubuntu@ip-172-31-80-167:~  
Preparing to unpack .../4-docker-ce_5%3a28.0.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-ce (5:28.0.1-1~ubuntu.24.04-noble) ...  
Selecting previously unselected package docker-ce-rootless-extras.  
Preparing to unpack .../5-docker-ce-rootless-extras_5%3a28.0.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-ce-rootless-extras (5:28.0.1-1~ubuntu.24.04-noble) ...  
Selecting previously unselected package docker-compose-plugin.  
Preparing to unpack .../6-docker-compose-plugin_2.33.1-1~ubuntu.24.04-noble_amd64.deb ...  
Unpacking docker-compose-plugin (2.33.1-1~ubuntu.24.04-noble) ...  
Selecting previously unselected package libltdl7_amd64.  
Preparing to unpack .../7-libltdl7_amd64_2.4.7-7build1_amd64.deb ...  
Unpacking libltdl7_amd64 (2.4.7-7build1) ...  
Selecting previously unselected package libslirp0_amd64.  
Preparing to unpack .../8-libslirp0_4.7.0-1~ubuntu3_amd64.deb ...  
Unpacking libslirp0_amd64 (4.7.0-1~ubuntu3) ...  
Selecting previously unselected package slirp4netns.  
Preparing to unpack .../9-slirp4netns_1.2.1-1build2_amd64.deb ...  
Unpacking slirp4netns (1.2.1-1build2) ...  
Setting up docker-buildx-plugin (0.21.1-1~ubuntu.24.04-noble) ...  
Setting up dockerd.io (1.7.25-1) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /usr/lib/systemd/system/containerd.service.  
Setting up docker-compose-plugin (2.33.1-1~ubuntu.24.04-noble) ...  
Setting up libltdl7_amd64 (2.4.7-7build1) ...  
Setting up dockerd.io (1.7.25-1) ...  
Setting up docker-engine (5:28.0.1-1~ubuntu.24.04-noble) ...  
Setting up libslirp0_amd64 (4.7.0-1~ubuntu3) ...  
Setting up pigz (2.8-1) ...  
Setting up docker-ce-rootless-extras (5:28.0.1-1~ubuntu.24.04-noble) ...  
Setting up slirp4netns (1.2.1-1build2) ...  
Setting up docker-ce (5:28.0.1-1~ubuntu.24.04-noble) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.  
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.  
Processing triggers for man-db (2.12.0-0.4build2) ...  
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...  
Scanning processes...  
Scanning linux images...  
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-172-31-80-167:~$
```



Check the Docker installation

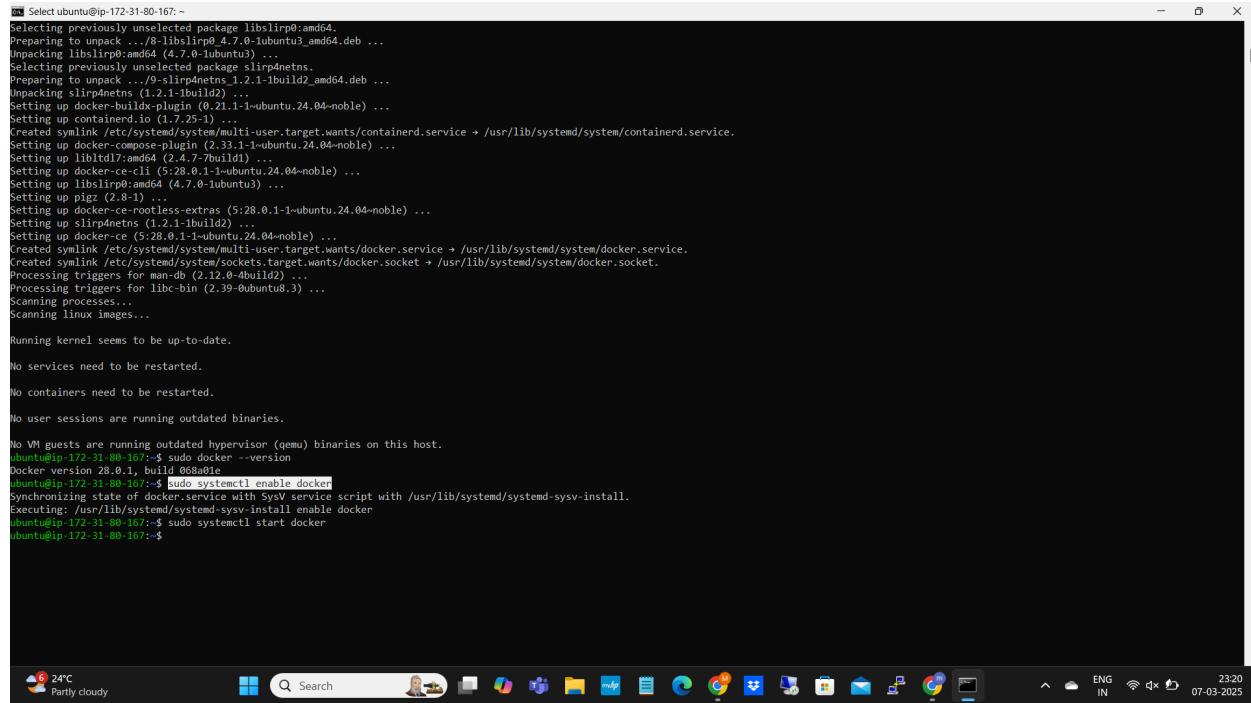
```
$sudo docker --version
```

```
ca Select ubuntu@ip-172-31-80-167:~  
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-172-31-80-167:~$ sudo docker --version  
Docker version 28.0.1, build 068a01e  
ubuntu@ip-172-31-80-167:~$
```



Enable Docker service:

```
$ sudo systemctl enable docker  
$sudo systemctl start docker
```



```
root@ubuntu:~# Selecting previously unselected package libslirp0:amd64.  
Preparing to unpack .../0-libslirp0_4.7.0-1ubuntu3_amd64.deb ...  
Unpacking libslirp0:amd64 (4.7.0-1ubuntu3)  
Selecting previously unselected package slirp4netns.  
Preparing to unpack .../9-slirp4netns_1.2.1-1build2_amd64.deb ...  
Unpacking slirp4netns (1.2.1-1build2) ...  
Setting up docker-buildx-plugin (0.21.1-1ubuntu.24.04-noble) ...  
Setting up containerd.io (1.7.25-1) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /usr/lib/systemd/system/containerd.service.  
Setting up docker-compose-plugin (2.33.1-1ubuntu.24.04-noble) ...  
Setting up libltdl7:amd64 (2.4.7-7build1) ...  
Setting up docker-ce-clnt (5:28.0.1-1ubuntu.24.04-noble) ...  
Setting up libslirp0:amd64 (4.7.0-1ubuntu3) ...  
Setting up pigr (2.8-1) ...  
Setting up docker-ce-rootless-extras (5:28.0.1-1ubuntu.24.04-noble) ...  
Setting up slirp4netns (1.2.1-1build2) ...  
Setting up docker-ce (5:28.0.1-1ubuntu.24.04-noble) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.  
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.  
Processing triggers for man-db (2.12.0-4build2) ...  
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...  
Scanning processes...  
Scanning linux images...  
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.  
root@ubuntu:~# $ sudo docker --version  
Docker version 28.0.1, build 068a01e  
root@ubuntu:~# $ sudo systemctl enable docker  
Synchronizing state of docker.service with sysV service script with /usr/lib/systemd/systemd-sysv-install.  
Executing: /usr/lib/systemd/systemd-sysv-install enable docker  
root@ubuntu:~# $ sudo systemctl start docker  
root@ubuntu:~# $ 07-03-2025
```

Download latest version of Docker compose:

```
$ sudo curl -L "https://github.com/docker/compose/releases/download/$(curl -s https://api.github.com/repos/docker/compose/releases/latest | jq -r .tag_name)/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
```

```
⑥ Select ubuntu@ip-172-31-80-167:~  
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /usr/lib/systemd/system/containerd.service.  
Setting up docker-compose-plugin (2.33.1-1ubuntu.24.04-noble) ...  
Setting up liblhd17-amd64 (2.4.7-7~hbuild1)  
Setting up docker-ce-clients (5:28.0.1-1ubuntu.24.04-noble) ...  
Setting up libsslrp0:amd64 (4.7.0-1ubuntu3) ...  
Setting up pigz (2.8-1) ...  
Setting up docker-ce-rootless-extras (5:28.0.1-1ubuntu.24.04-noble) ...  
Setting up slirp4netns (1.2.1-1~hbuild2) ...  
Setting up docker-ce (5:28.0.1-1ubuntu.24.04-noble) ...  
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.  
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.  
Processing triggers for man-db (2.12.0-4~hbuild1) ...  
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...  
Scanning processes...  
Scanning linux images...  
  
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-172-31-80-167:~$ sudo docker --version  
Docker version 28.0.1, build 068a0fe  
ubuntu@ip-172-31-80-167:~$ sudo docker systemctl enable docker  
Checking current state of docker service with SysV service script with /usr/lib/systemd/system-sysv-install.  
Executing: /usr/lib/systemd/system-sysv-install enable docker  
ubuntu@ip-172-31-80-167:~$ sudo systemctl start docker  
ubuntu@ip-172-31-80-167:~$ sudo curl -L "https://github.com/docker/compose/releases/download/$(curl -s https://api.github.com/repos/docker/compose/releases/latest | jq -r '.tag_name')/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose  
% Total    % Received % Xferd  Average Speed   Time   Time  Current  
          Dload Upload Total   Spent    Left Speed  
 0      0     0      0       0      0      0 ---:---:---:---:---:---:---:--- 0  
100  70.2M 100  70.2M 0      0  78.5M      0 ---:---:---:---:---:---:--- 99.6M  
ubuntu@ip-172-31-80-167:~
```

Giving executable permissions to the docker-compose file

```
$ sudo chmod +x /usr/local/bin/docker-compose
```

Check the Docker Compose version:

```
$ docker-compose --version
```

Create a directory for the web app

```
$ mkdir my-website
```

```
$ cd my-website
```

```
sudo Select ubuntu@ip-172-31-80-167: ~/my-website
Setting up docker-ce-rootless-extras (5:28.0.1-1~ubuntu.24.04-noble) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-ce (5:28.0.1-1~ubuntu.24.04-noble) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Scanning processes...
Scanning linux images...
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-172-31-80-167:~$ sudo docker --version
Docker version 28.0.1, build 068a0fe
ubuntu@ip-172-31-80-167:~$ sudo systemctl enable docker
Synchronizing state of docker.service with sysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable docker
ubuntu@ip-172-31-80-167:~$ sudo curl -L "https://github.com/docker/compose/releases/download/$(curl -s https://api.github.com/repos/docker/compose/releases/latest | jq -r .tag_name)/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
% Total    % Received % Xferd  Average Speed   Time     Time  Current
          Dload  Upload   Total Spent  Left  Speed
0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
100 70.2M 100 70.2M 0  0 78.5M 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
ubuntu@ip-172-31-80-167:~$ sudo chmod +x /usr/local/bin/docker-compose
ubuntu@ip-172-31-80-167:~$ docker-compose --version
Docker Compose version v2.33.1
ubuntu@ip-172-31-80-167:~$ mkdir my-website
ubuntu@ip-172-31-80-167:~$ cd my-website
-bash: cd: my-website: No such file or directory
ubuntu@ip-172-31-80-167:~$ mkdir my-website
ubuntu@ip-172-31-80-167:~$ cd my-website
ubuntu@ip-172-31-80-167:~/my-website$
```

The screenshot shows a terminal window on a Linux desktop. The terminal output details the installation of Docker and its components, followed by the creation of a 'my-website' directory and its subdirectory 'my-website'. The desktop taskbar at the bottom shows various application icons and system status indicators.

Creating Index.html with my basic details:

```
ubuntu@ip-172-31-80-167: ~/my-website
Setting up docker-ce-rootless-extras (5:28.0.1-1~ubuntu.24.04-noble) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-ce (5:28.0.1-1~ubuntu.24.04-noble) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Scanning processes...
Scanning linux images...
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-172-31-80-167:~$ sudo docker --version
Docker version 28.0.1, build 068a0fe
ubuntu@ip-172-31-80-167:~$ sudo systemctl enable docker
Synchronizing state of docker.service with sysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable docker
ubuntu@ip-172-31-80-167:~$ sudo curl -L "https://github.com/docker/compose/releases/download/$(curl -s https://api.github.com/repos/docker/compose/releases/latest | jq -r .tag_name)/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
% Total    % Received % Xferd  Average Speed   Time     Time  Current
          Dload  Upload   Total Spent  Left  Speed
0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
100 70.2M 100 70.2M 0  0 78.5M 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
ubuntu@ip-172-31-80-167:~$ sudo chmod +x /usr/local/bin/docker-compose
ubuntu@ip-172-31-80-167:~$ docker-compose --version
Docker Compose version v2.33.1
ubuntu@ip-172-31-80-167:~$ mkdir my-website
ubuntu@ip-172-31-80-167:~$ cd my-website
-bash: cd: my-website: No such file or directory
ubuntu@ip-172-31-80-167:~$ mkdir my-website
ubuntu@ip-172-31-80-167:~$ cd my-website
ubuntu@ip-172-31-80-167:~/my-website$ vi index.html
```

This screenshot shows a terminal window with the same initial setup as the first one, but it focuses on creating an 'index.html' file within the 'my-website' directory. The desktop taskbar at the bottom is visible.

```
ubuntu@ip-172-31-80-167: ~/my-website
$ cat index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Basic Details</title>
</head>
<body>
  <h1>Hello, I'm Mounika</h1>
  <p>Welcome to my website!</p>
  <p>Here are some basic details:</p>
  <ul>
    <li>Name: Mounika</li>
    <li>Country: India</li>
    <li>Course: Devops</li>
  </ul>
</body>
</html>

```

"index.html" 18L, 429B 18L, 429B 18,7 All

24°C Partly cloudy

Create a Docker File:

\$ vi Dockerfile

```
SELECT ubuntu@ip-172-31-80-167:~/my-website
# Use the official Nginx image from the Docker Hub
FROM nginx:alpine

# Copy the index.html file into the container
COPY index.html /usr/share/nginx/html/index.html

# Expose port 80 for the web server
EXPOSE 80

```

-- INSERT --

Top Stories How can India, U... 9,1 All

```

Select ubuntu@ip-172-31-80-167: ~/my-website
ubuntu@ip-172-31-80-167:~$ sudo curl -L "https://github.com/docker/compose/releases/download/$(curl -s https://api.github.com/repos/docker/compose/releases/latest | jq -r .tag_name)/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
* Total    % Received % Xferd  Average Speed   Time   Time  Current
          Dload Upload Total Spent   Left Speed
0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
100 70.2M 100 70.2M 0  0  78.5M 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
ubuntu@ip-172-31-80-167:~$ sudo chmod +x /usr/local/bin/docker-compose
ubuntu@ip-172-31-80-167:~$ docker-compose --version
Docker Compose version 2.33.0
ubuntu@ip-172-31-80-167:~/my-website
ubuntu@ip-172-31-80-167:~/my-website
-bash: cd: my-website: No such file or directory
ubuntu@ip-172-31-80-167:~$ mkdir my-website
ubuntu@ip-172-31-80-167:~$ cd my-website
ubuntu@ip-172-31-80-167:~/my-website$ vi index.html
ubuntu@ip-172-31-80-167:~/my-website$ vi index.html
ubuntu@ip-172-31-80-167:~/my-website$ vi Dockerfileclient_loop: send disconnect: Connection reset
C:\Users\mouni\Downloads>ssh -i "LINUX-KEY.pem" ubuntu@ec2-34-238-250-244.compute-1.amazonaws.com
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1021-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Fri Mar  7 18:22:51 UTC 2025

System load: 0.0 Processes:           106
Usage of /: 37.1% of 6.71GB Users logged in: 0
Memory usage: 27% IPv4 address for enX0: 172.31.80.167
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

140 updates can be applied immediately.
47 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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

Last login: Fri Mar  7 17:28:34 2025 from 115.98.101.140
ubuntu@ip-172-31-80-167:~$ cd my-website
ubuntu@ip-172-31-80-167:~/my-website$ Vi Dockerfile
[New] 91, 213B written
ubuntu@ip-172-31-80-167:~/my-website$
```



Create a docker-compose.yml file:

\$ vi docker-compose.yml

```

$ vi docker-compose.yml
version: '3'
services:
  web:
    build: .
    ports:
      - "80:80"
    volumes:
      - ./index.html:/usr/share/nginx/html/index.html

-- INSERT --

```



```

[+] Select ubuntu@ip-172-31-80-167: ~/my-website
[+] bash; cd my-website; No such file or directory
ubuntu@ip-172-31-80-167:~$ mkdir my-website
ubuntu@ip-172-31-80-167:~/my-website$ vi index.html
ubuntu@ip-172-31-80-167:~/my-website$ vi index.html
ubuntu@ip-172-31-80-167:~/my-website$ vi Dockerfileclient_loop: send disconnect: Connection reset
C:\Users\mouni\Downloads>ssh -i "LINUX-KEY.pem" ubuntu@ec2-34-238-250-244.compute-1.amazonaws.com
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.3.0-1021-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Fri Mar 7 18:22:51 UTC 2025

System load: 0.0 Processes: 106
Usage of /: 37.1% of 6.71GB Users logged in: 0
Memory usage: 27% IPv4 address for enX0: 172.31.80.167
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

140 updates can be applied immediately.
47 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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

Last login: Fri Mar 7 17:28:34 2025 from 115.98.101.149
ubuntu@ip-172-31-80-167:~$ cd my-website
ubuntu@ip-172-31-80-167:~/my-website$ vi Dockerfile
[New] 91, 213B written
ubuntu@ip-172-31-80-167:~/my-website$ vi docker-compose.yml
ubuntu@ip-172-31-80-167:~/my-website$ cat docker-compose.yml
version: '3'
services:
  web:
    build:
      context: .
      ports:
        - "80:80"
    volumes:
      - ./index.html:/usr/share/nginx/html/index.html
ubuntu@ip-172-31-80-167:~/my-website$ 

```

Build Docker Container using Docker compose

\$ sudo docker-compose build

```

[+] Select ubuntu@ip-172-31-80-167:~/my-website
[+] web:
  build: .
  ports:
    - "80:80"
  volumes:
    - ./index.html:/usr/share/nginx/html/index.html
ubuntu@ip-172-31-80-167:~/my-website$ sudo docker-compose build
[warn] [0000] /home/ubuntu/my-website/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
Compose now can delegate build to Docker for better performances
Just set COMPOSE_BAKE=true
[+] Building 2.0 (8/8) FINISHED
[+] [+] [internal] Load build definition from Dockerfile
[+] [+] >>> transferring dockerfile: 250B
[+] [+] [web internal] Load metadata for docker.io/library/nginx:alpine
[+] [+] [web internal] Load .dockerrcignore
[+] [+] >>> transferring context: 2B
[+] [+] [web internal] Load build context
[+] [+] >>> transferring context: 468B
[+] [+] [web] FROM docker.io/library/nginx:alpine@sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591
[+] [+] >>> resolve docker.io/library/nginx:alpine@sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591
[+] [+] >>> sha256:ccc35e35d4206d115290f1074af6a01c474bf94897343cbe0d3bce781d2 1.79MB / 1.79MB
[+] [+] >>> sha256:43f2e400bf3babe56d7e13b600b308f42c6f2b103f6645c349fb098daca8962 627B / 627B
[+] [+] >>> sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591 36KB / 36KB
[+] [+] >>> sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591 2.50KB / 2.50KB
[+] [+] >>> sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591 11.23KB / 11.23KB
[+] [+] >>> sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591 3.64KB / 3.64KB
[+] [+] >>> extracting sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591 11092101a132a91a388795e095d0c25c5270
[+] [+] >>> sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591 4028B / 4028B
[+] [+] >>> sha256:d79c50844876e0f038c675d0532f2b2e476281a29e763b0hf1a4edc1.40KB / 1.40KB
[+] [+] >>> sha256:598458f8c003fa6900b5c7834795a5a79b4dfc7448d5350474fd3996295ecce 955B / 955B
[+] [+] >>> sha256:ab328a7346303a31b69a73908f63f1414c1de4e397088dc0d7ed022d1ffefc 1.21KB / 1.21KB
[+] [+] >>> sha256:47e4d4992ab716c95e18840943549b4ac5edc511c74496528e1b03e1676 15.38MB / 15.38MB
[+] [+] >>> extracting sha256:c33015d420dd11290f1074afcadc47abf94897434e0bf3d8e781d2
[+] [+] >>> extracting sha256:43f2e400bf3babe56d7e13b600b308f42c6f2103f6645c349fb098daca8962
[+] [+] >>> extracting sha256:984533bf083f4690005e7834795a5a79b4dfc7448d5350474fd3996295ecce
[+] [+] >>> extracting sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591 104edc625808eb
[+] [+] >>> extracting sha256:4ff102c5d78d254a6f0a002b3cf39ea0f0f01ecc8027fd21e219d0af8bc0591 f1110f474d4e397088dc0d7ed022d1ffefc
[+] [+] >>> extracting sha256:5d79c50844876e0f038c675d0532f2b2e476281a29e763b0hf1a4edc1.40KB / 1.40KB
[+] [+] >>> extracting sha256:07e4c002ab716c95e18840943549b4ac5edc511c74496528e1b03e1676
[+] [+] [+] COPY index.html /usr/share/nginx/html/index.html
[+] [+] exporting to image
[+] [+] exporting layers
[+] [+] writing image sha256:e9574c14024abd3:990f64062ffe80f56d269a60fc2b50f60ecc1d66f282ebbb
[+] [+] naming to docker.io/library/my-website:web
[+] [+] resolving provenance for metadata file
[+] Building 1/1
[+] web Built 0.0s
ubuntu@ip-172-31-80-167:~/my-website$ 

```

Start Container:

```
$ docker-compose up -d
```

Now Try to Access my website with instances public ip

GUUI Docker Task -2 - Google D Untitled document - Goog Instances | EC2 | us-east-1 Instance details | EC2 | us- My Basic Details

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-05c320a9fb12b0b2e

aws Search [Alt+S] United States (N. Virginia) srikanth koluri

EC2 Instances i-05c320a9fb12b0b2e

EC2

Dashboard EC2 Global View Events

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

CloudShell Feedback

24°C Partly cloudy

Instance summary for i-05c320a9fb12b0b2e (TEST-VM) info

Updated 2 minutes ago

Instance ID i-05c320a9fb12b0b2e

IPv6 address -

Hostname type IP name: ip-172-31-80-167.ec2.internal

Answer private resource DNS name IPv4 (A)

Auto-assigned IP address 34.238.250.244 [Public IP]

IAM Role -

IMDSv2 Required

Public IPv4 address 34.238.250.244 [open address]

Instance state Running

Private IP DNS name (IPv4 only) ip-172-31-80-167.ec2.internal

Instance type t2.micro

VPC ID vpc-07f2dc389716a7f01

Subnet ID subnet-0e07ae45177b4d083

Instance ARN arn:aws:ec2:us-east-1:905418201986:instance/i-05c320a9fb12b0b2e

Connect Instance state Actions

Private IPv4 addresses 172.31.80.167

Public IPv4 DNS ec2-34-238-250-244.compute-1.amazonaws.com [open address]

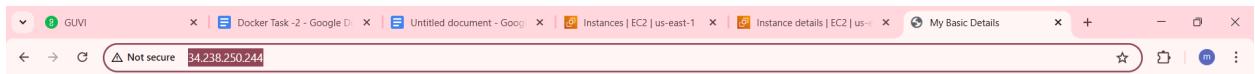
Elastic IP addresses -

AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations | Learn more

Auto Scaling Group name -

Managed false

<http://34.238.250.244/>



Hello, I'm Mounika

Welcome to my website!

Here are some basic details:

- Name: Mounika
- Country: India
- course: devops



Able to Access the website