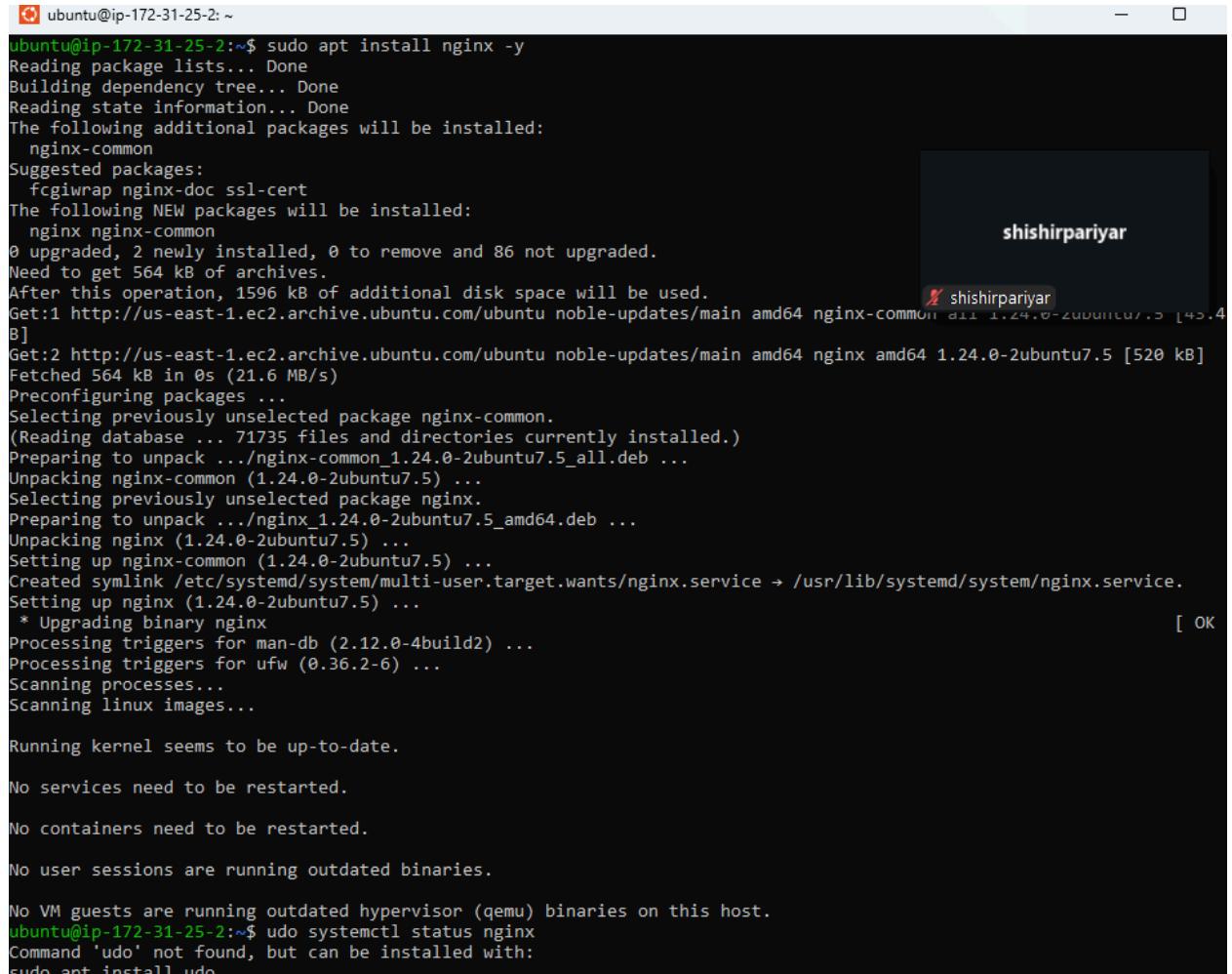


LAB: NGINX Server on Ubuntu Virtual Machine.

- Installing Nginx.



```
ubuntu@ip-172-31-25-2:~$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 86 not upgraded.
Need to get 564 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2ubuntu7.5 [520 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.5 [520 kB]
Fetched 564 kB in 0s (21.6 MB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 71735 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.5_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.5) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.5_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.5) ...
Setting up nginx-common (1.24.0-2ubuntu7.5) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Setting up nginx (1.24.0-2ubuntu7.5) ...
 * Upgrading binary nginx
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for ufw (0.36.2-6) ...
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No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.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-172-31-25-2:~$ sudo systemctl status nginx
Command 'udo' not found, but can be installed with:
sudo apt install udo
```

```
buntu@ip-172-31-25-2:~$ sudo systemctl status nginx
nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
     Active: active (running) since Fri 2026-01-16 13:27:20 UTC; 39s ago
       Docs: man:nginx(8)
   Process: 1775 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Process: 1777 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Main PID: 1807 (nginx)
    Tasks: 3 (limit: 4667)
   Memory: 2.4M (peak: 5.3M)
      CPU: 21ms
     CGroup: /system.slice/nginx.service
             ├─1807 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             ├─1809 "nginx: worker process"
             └─1810 "nginx: worker process"

Jan 16 13:27:20 ip-172-31-25-2 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy s>
Jan 16 13:27:20 ip-172-31-25-2 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy se>.. skipping...
```

- Verifying the installation.

```
buntu@ip-172-31-25-2:~$ curl http://172.31.25.2
!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>
<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>
<p><em>Thank you for using nginx.</em></p>
</body>
</html>
buntu@ip-172-31-25-2:~$
```



- Configuring and testing the server block.

```
ubuntu@ip-172-31-25-2:~$ sudo vi /etc/nginx/sites-available/your_domain
ubuntu@ip-172-31-25-2:~$ cat /etc/nginx/sites-available/your_domain
server {
    listen 80;
    listen [::]:80;

    root /var/www/your_domain/html;
    index index.html index.htm;

    server_name _;

    location / {
        try_files $uri $uri/ =404;
    }
}
```

Verification

