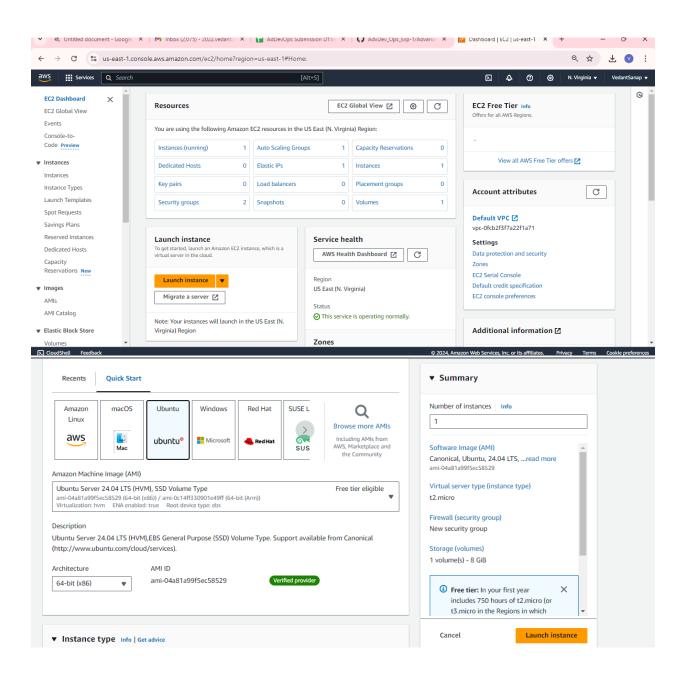
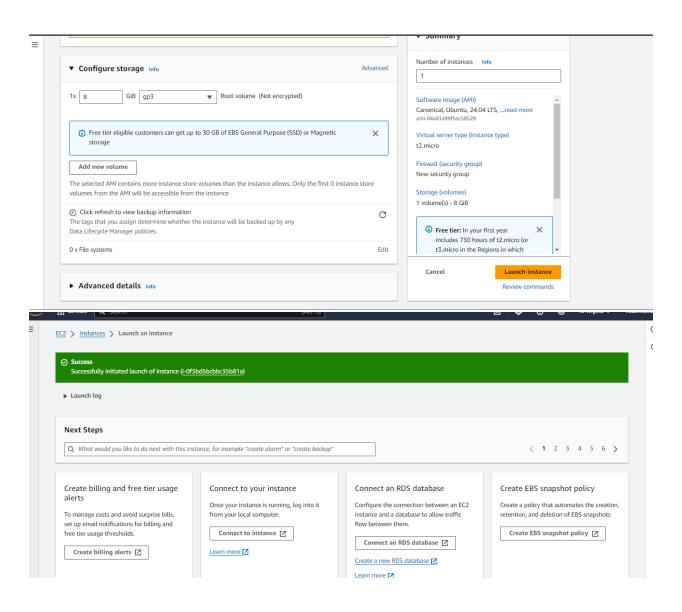
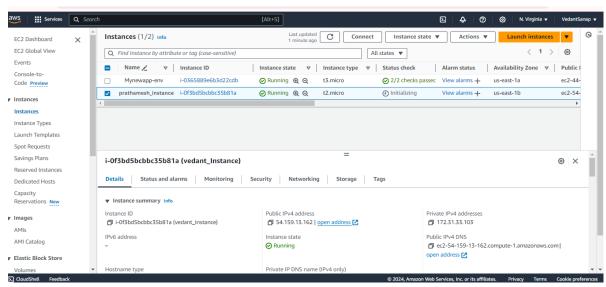
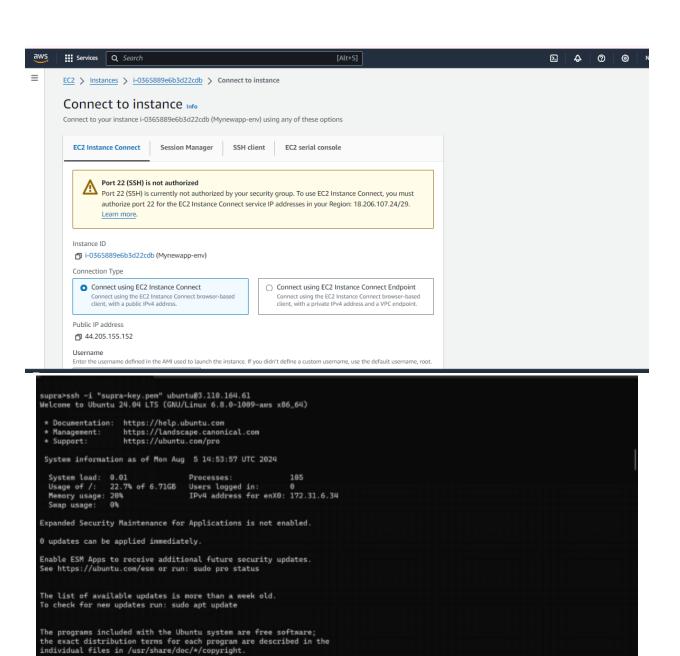
Experiment 01

a) To develop a website and host it on your local machine on a VM









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.

```
whurtubig=172-31-6-34:-$ sudo apt update && sudo apt upgrade -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
6t:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-packports InRelease [126 kB]
6t:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
6t:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
6t:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
6t:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe and64 Packages [15.0 RB]
6t:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe and64 Components [3871 kB]
6t:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe and64 Components [3871 kB]
6t:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe and64 Components [3871 kB]
6t:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe and64 Components [3871 kB]
6t:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe and64 Components [3871 kB]
6t:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe and64 Components [3871 kB]
6t:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe and64 Components [3871 kB]
6t:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universityerse and64 Components [387 kB]
6t:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/nain and64 Packages [317 kB]
6t:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/nain and64 c-n-f Metadata [804 kB]
6t:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/nain and64 c-n-f Metadata [12.5 kB]
6t:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/nain-archiverse and66 c-n-f Retadata [12.5 kB]
6t:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/nain-archiverse and66 c-n-f Metadata [12.5 kB]
6t:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/nain-archiverse and66 c-n-f Retadata [12.5 kB]
6t:21 http://ap-south-1.ec2.archive.ubuntu.com/u
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu0ip-172-31-6-34:-$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree... Done 
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authm_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex
Enabling module env.
Enabling module mime
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-whosts-access-log.
Enabling conf security.
 Enabling conf serve-cgi-bin
Enabling site 000-default.

Created symlink /etc/systemd/system/multi-user.target.mants/apache2.service + /usr/lib/systemd/system/apache2.service.
 Created symlink /etc/systemd/system/multi-user.target.mants/apache-htcacheclean.service + /usr/lib/systemd/system/apache-htcacheclean
 service.
Processing triggers for ufw (0.36.2-6)
Processing triggers for man-db (2.12.8-4build2) ...
Processing triggers for libc-bin (2.39-8ubuntu8.2) ...
 Scanning processes.
Scanning candidates...
Scanning linux images...
Pending kernel upgrade!
```

```
*** System restart required ***
Last login: Mon Aug 5 14:53:58 2024 from 152.58.43.204
ubuntudin-172-31-6-34:-$ sudo mv /home/ubuntu/index.html /var/wnw/html/
ubuntudin-172-31-6-34:-$ sudo chown -R wnw-data: wnw-data /var/wnw/html
ubuntudin-172-31-6-34:-$ sudo chown -R wnw-data: wnw-data /var/wnw/html
ubuntudin-172-31-6-34:-$ sudo anno /etc/apache2/sites-available/000-default.conf
ubuntudin-172-31-6-34:-$ sudo aZensite 000-default.conf
Site 000-default already enabled
ubuntudin-172-31-6-34:-$ sudo systemetl restart apache2
  Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
augeas-lenses libaugeas0 python3-acme python3-augeas
python3-certbot python3-configargparse python3-icu
python3-josepy python3-parsedatetime python3-fc3339
Suggested packages:
      augeas-doc python-certbot-doc python3-certbot-nginx
augeas-tools python-acme-doc python-certbot-apache-doc
The following NEW packages will be installed:
augeas-lenses certbot libaugeas0 python3-acme python3-augeas
python3-certbot python3-certbot-apache
Unpacking python3-parsedatetime (2.6-3) ...
Selecting previously unselected package python3-certbot.
Preparing to unpack .../08-python3-certbot_2.9.0-1_all.deb ...
Unpacking python3-certbot (2.9.0-1) ...
Selecting previously unselected package certbot.
Preparing to unpack .../09-certbot_2.9.0-1_all.deb ...
Unpacking certbot (2.9.0-1) ...
Selecting previously unselected package python3-certbot-apache.
Preparing to unpack .../10-python3-certbot-apache_2.9.0-1_all.deb ...
Unpacking python3-certbot-apache (2.9.0-1) ...
Selecting previously unselected package python3-icu.
Preparing to unpack .../11-python3-icu_2.12-1build2_amd64.deb ...
Unpacking python3-icu (2.12-1build2) ...
```

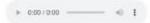


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