

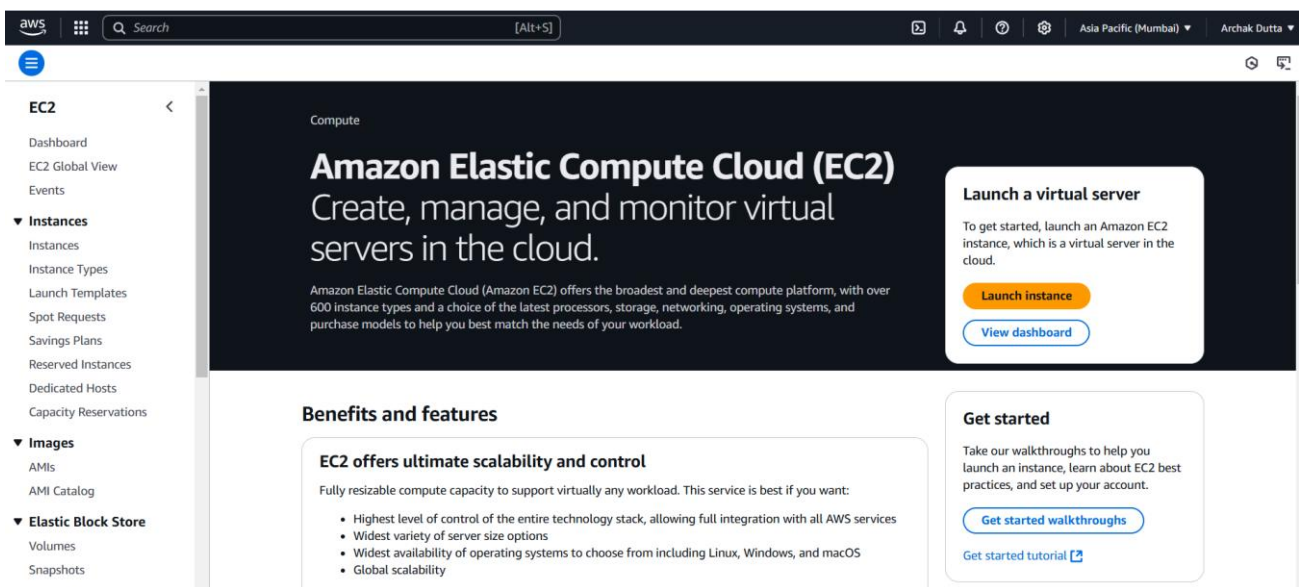
## Assignment No: 7

### Problem Statement: Hosting a website on EC2.

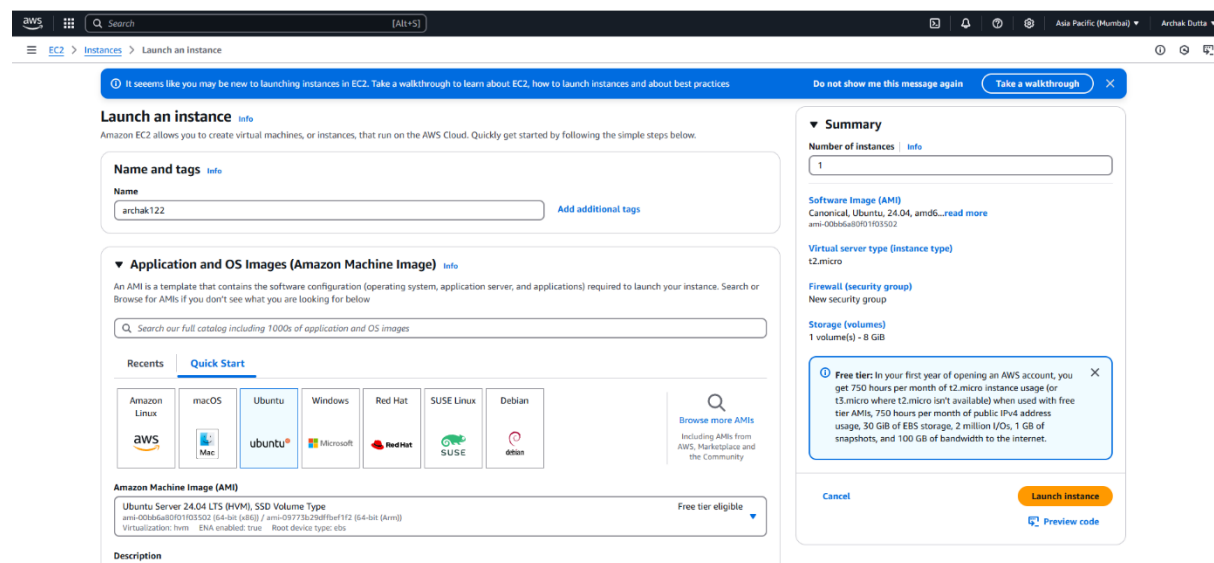
### Solution:

To host a website on EC2, the steps are-

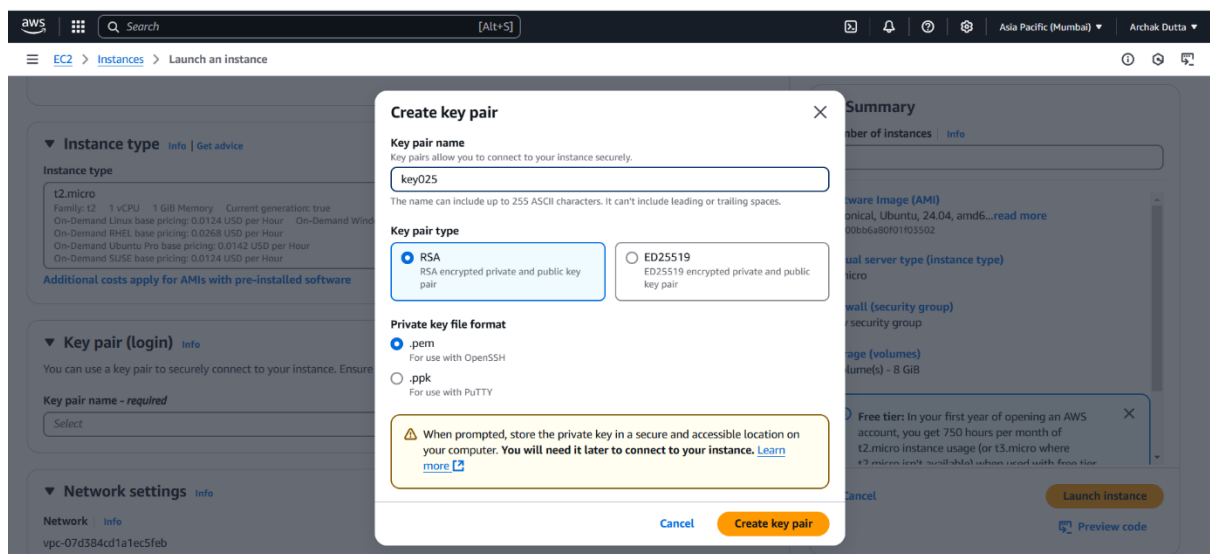
1. At first, select EC2 from the AWS console and click on launch instance button.



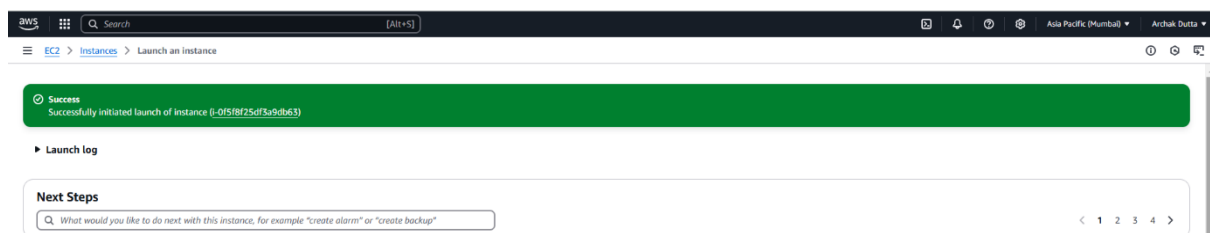
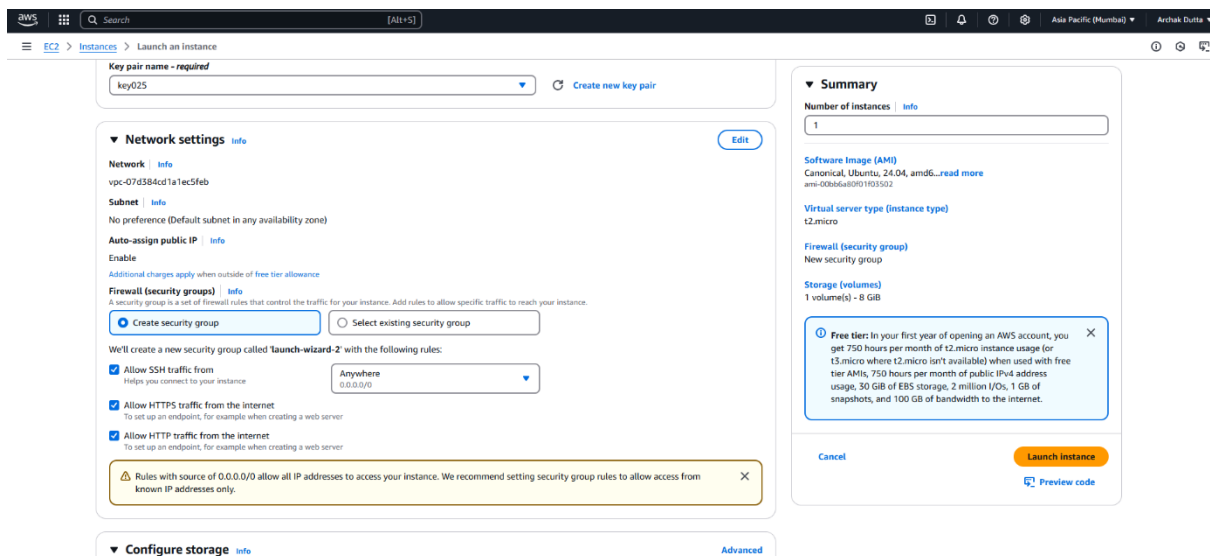
2. Assign a name to the instance and select ubuntu from Application and OS Images section.



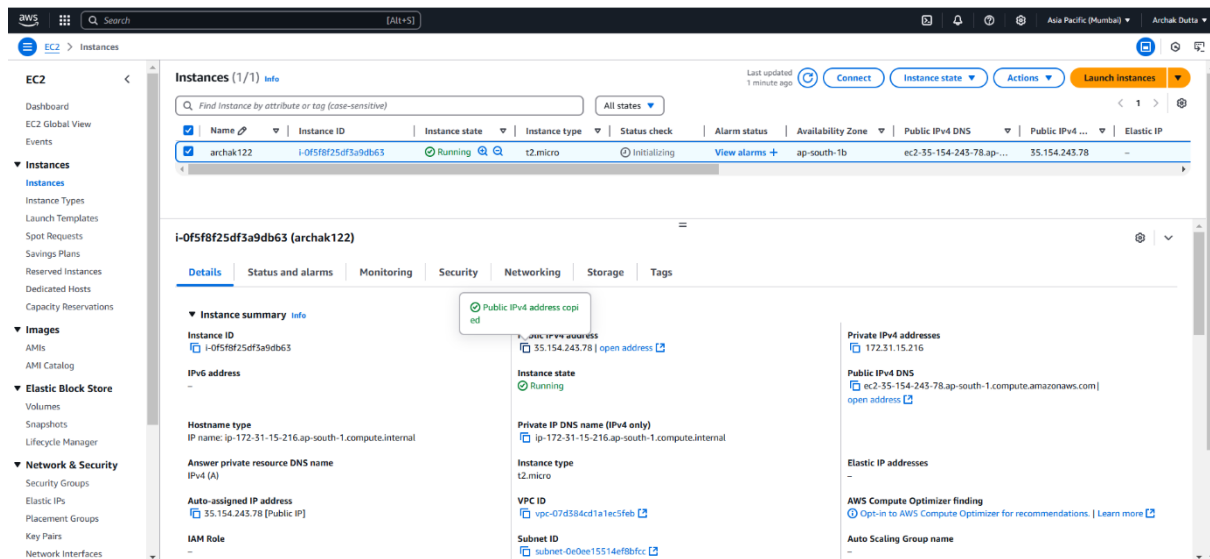
3. Create a key pair by assigning a name to it. Keep key pair types as RSA and select key file format as .pem. Hence click on create key pair.



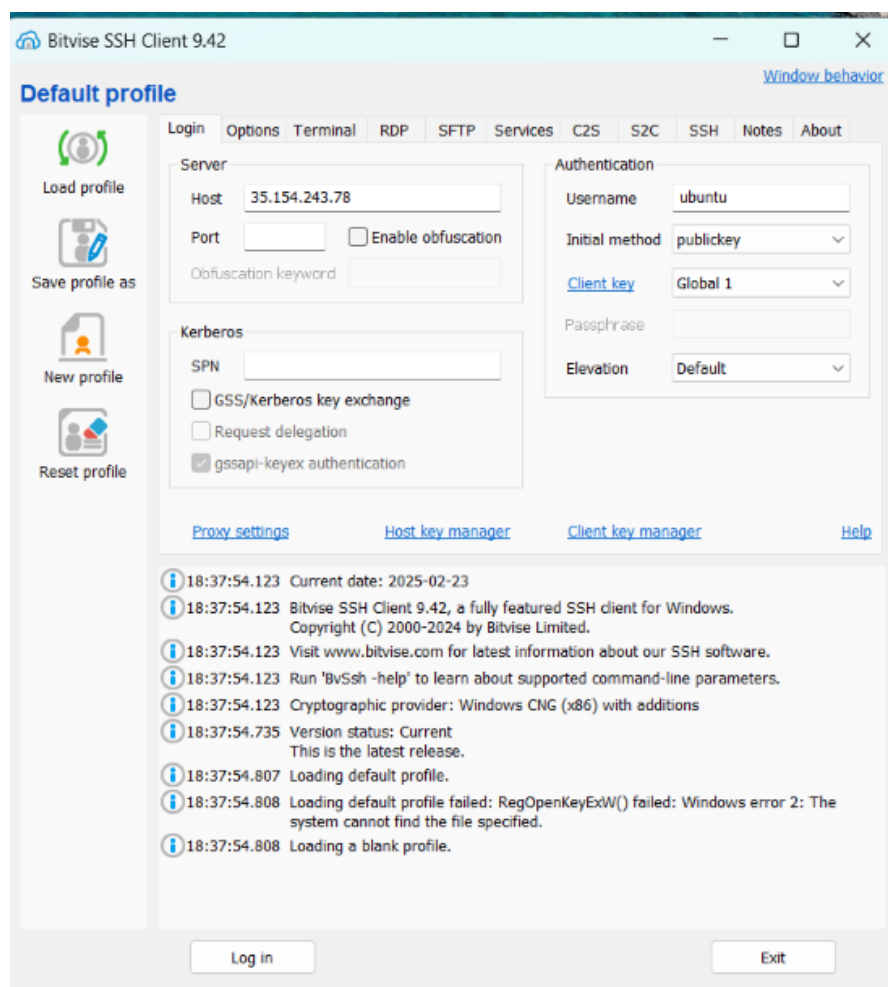
4. Under Network settings section, click on all the checkboxes for giving allowance to SSH, HTTPS and HTTP. Now click on launch instance to create the instance.



5.Go to the created instance and copy the public IPv4 address URL from the details section of the instance.



6.Now install the Bitwise SSH client in the device and provide the required details for successful log in.





```
ubuntu@35.154.243.78:22 - Bitvise xterm - ubuntu@ip-172-31-15-216: ~
Running kernel seems to be up-to-date.

Restarting services...
systemctl restart acpid.service chrony.service cron.service multipathd.service packagekit.service r
syslog.service udisks2.service

Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart getty@tty1.service
systemctl restart networkd-dispatcher.service
systemctl restart serial-getty@ttyS0.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

No containers need to be restarted.

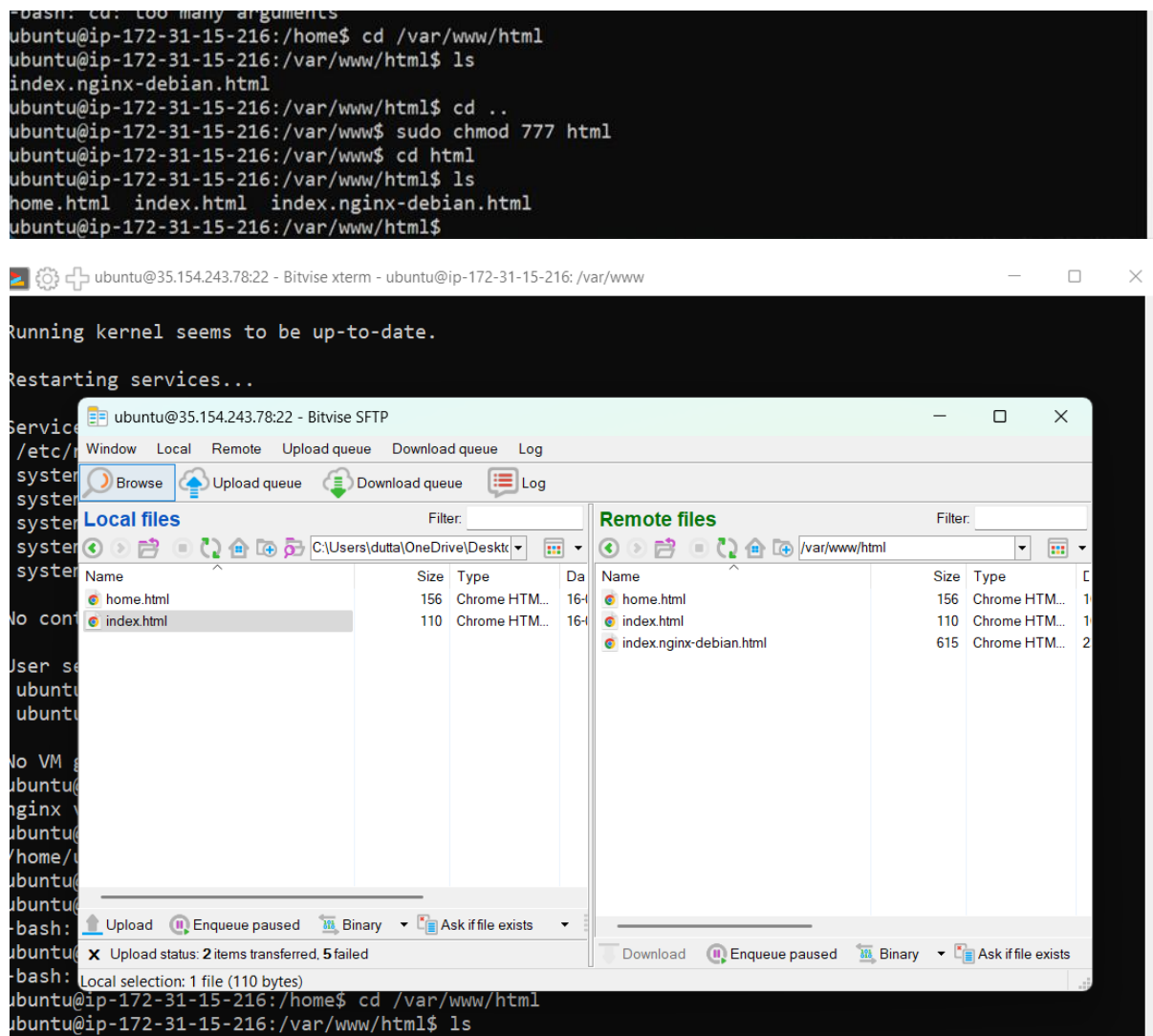
User sessions running outdated binaries:
ubuntu @ session #2: sshd[1042,1154]
ubuntu @ user manager service: systemd[1049]

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-15-216:~$ sudo apt-get install nginx
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 0 not upgraded.
Need to get 552 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Do you want to continue? [Y/n] y

User sessions running outdated binaries:
ubuntu @ session #2: sshd[1042,1154]
ubuntu @ user manager service: systemd[1049]

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-15-216:~$ nginx -v
nginx version: nginx/1.24.0 (Ubuntu)
ubuntu@ip-172-31-15-216:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-15-216:~$ cd ..
ubuntu@ip-172-31-15-216:/home$ cd/var/www/html
-bash: cd/var/www/html: No such file or directory
ubuntu@ip-172-31-15-216:/home$ cd / var/www/html
-bash: cd: too many arguments
ubuntu@ip-172-31-15-216:/home$ cd /var/www/html
ubuntu@ip-172-31-15-216:/var/www/html$ ls
index.nginx-debian.html
ubuntu@ip-172-31-15-216:/var/www/html$ cd ..
ubuntu@ip-172-31-15-216:/var/www$ sudo chmod 777 html
ubuntu@ip-172-31-15-216:/var/www$
```

8. Enter var/www/html path is to be selected for successful file loading from local files to remote files.



9. Now paste the copied public IPv4 address in a new incognito browser window for successful hosting of the website.

