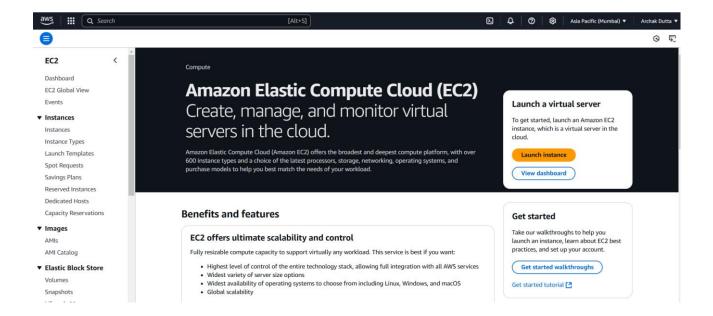
Assignment No: 7

<u>Problem Statement</u>: Hosting a website on EC2.

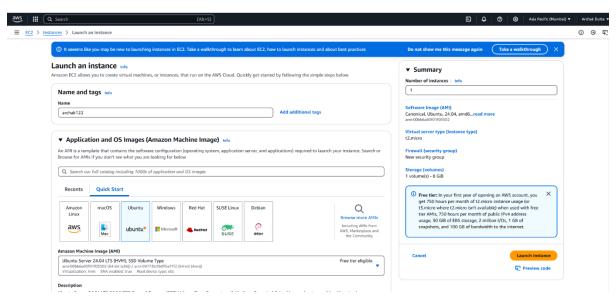
Solution:

To host a website on EC2, the steps are-

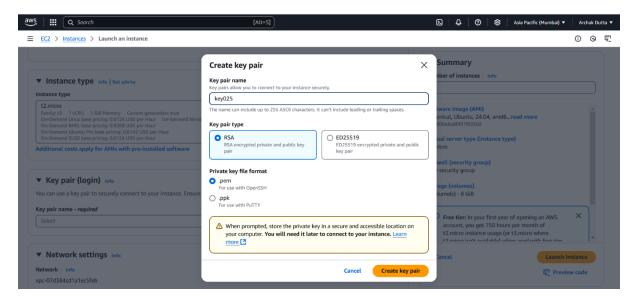
1.At first, select EC2 from the AWS console and click on launch instance button.



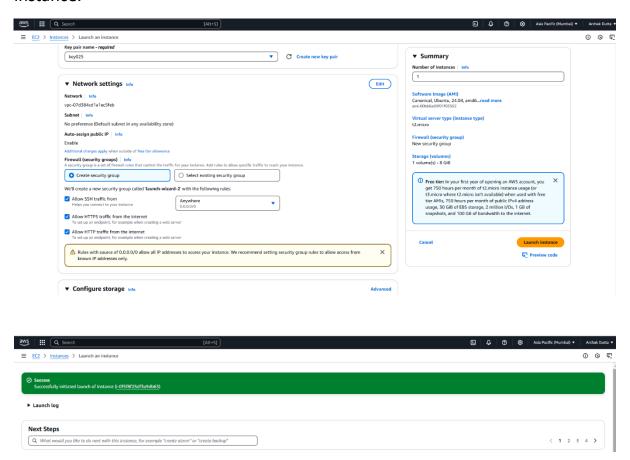
2. Assign a name to the instance and select ubuntu from Application and OS Images section.



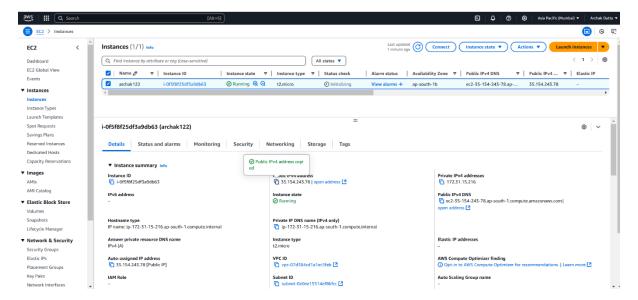
3.Create a key pair by assigning a name to it. Keep key pair types as RSA and select key file format as .pem. Hence click on create key pair.



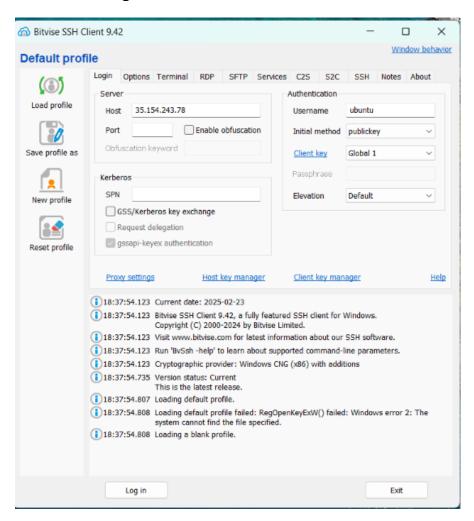
4.Under Network settings section, click on all the checkboxes for giving allowance to SSH, HTTPS and HTTP. Now click on launch instance to create the instance.

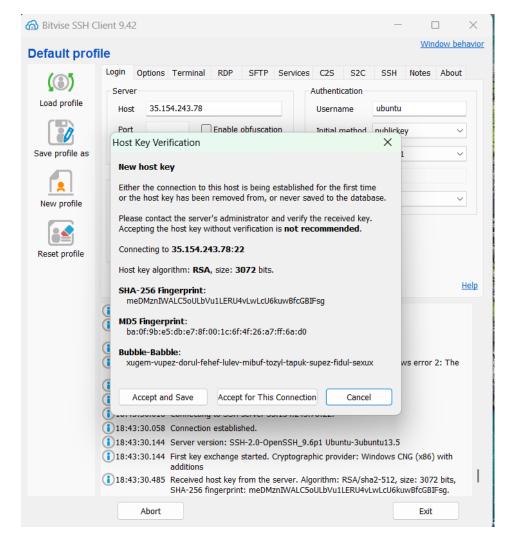


5.Go to the created instance and copy the public IPv4 address URL from the details section of the instance.



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





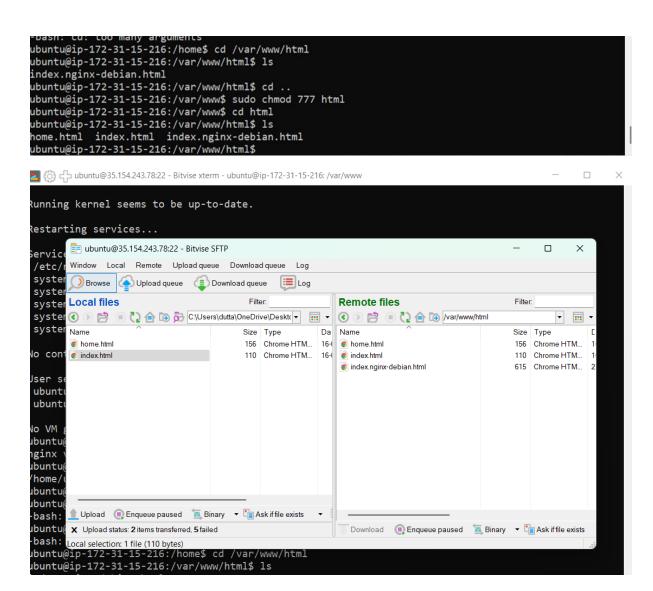
7.Once logged in, open the terminal console and nginx is to be installed.

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-15-216:~$ pwd
 /home/ubuntu
ubuntu@ip-172-31-15-216:~$ sudo apt-gate update
sudo: apt-gate: command not found
ubuntu@ip-172-31-15-216:~$ sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:49 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:50 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 B]
Fetched 32.3 MB in 11s (3071 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-15-216:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
   base-files bind9-dnsutils bind9-host bind9-libs bpftrace bsdextrautils bsdutils eject fdisk kmod
  krb5-locales landscape-common libaio1t64 libattr1 libblkid1 libbsd0 libc-bin libc6 libcap2 libcap2-bin libdrm-common libdrm2 libdw1t64 libelf1t64 libfdisk1 libgmp10 libgnutls30t64 libgpg-error-l10n libgpg-error0 libgssapi-krb5-2 libidn2-0 libk5crypto3 libkmod2 libkrb5-3 libkrb5support0 libldap-common libldap2 libmd0 libmount1 libmpfr6 libnghttp2-14 libn1-3-200
```

```
🌅 👸 👍 ubuntu@35.154.243.78:22 - Bitvise xterm - ubuntu@ip-172-31-15-216: ~
                                                                                               X
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.
```

```
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.

