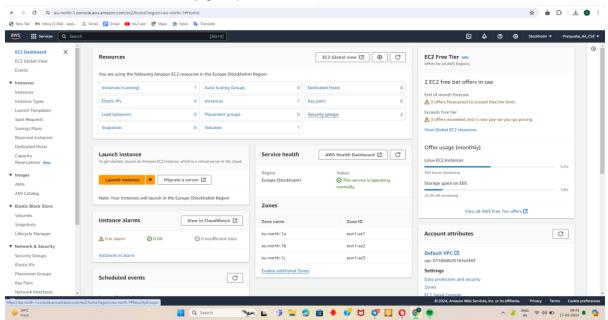
Assignment 12:-

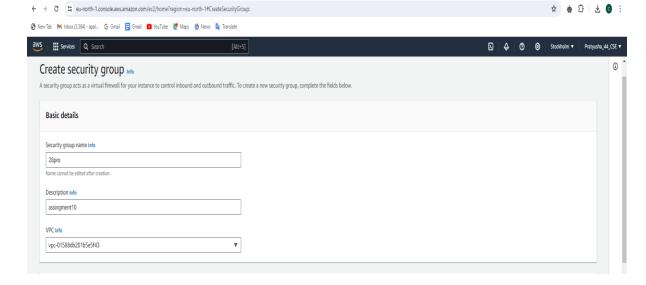
Problem Statement: Deploy and run the project in AWS without using port.

Steps:

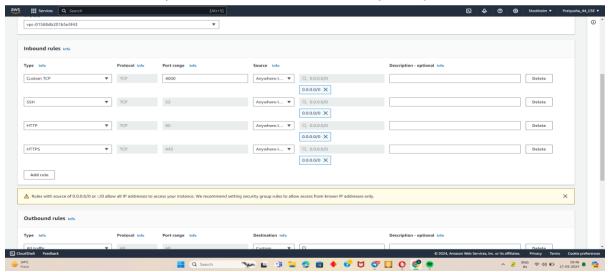
1. At first go to EC2 dashboard and then remove all security group except default, and then click on Create security group.



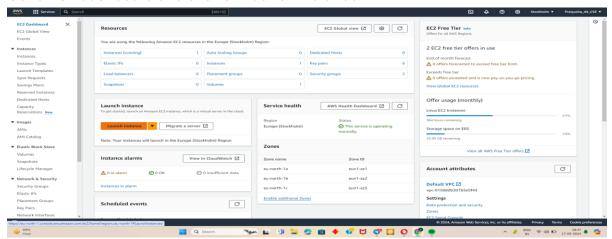
2. Now give its proper name and description(Same as Name).



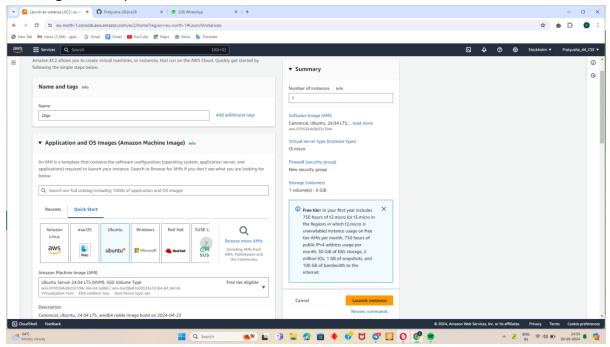
3. Now in inbound click on "Add rule" and in this way add 4 security rules (Custom TCP, SSH, HTTP, HTTPs). Then click on "Create Security Group".



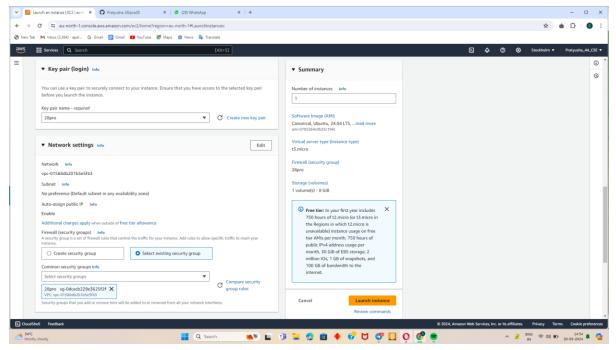
4. Go to EC2 dashboard and click on Launch Instance.



5. After it give a unique name and then click on Ubuntu.

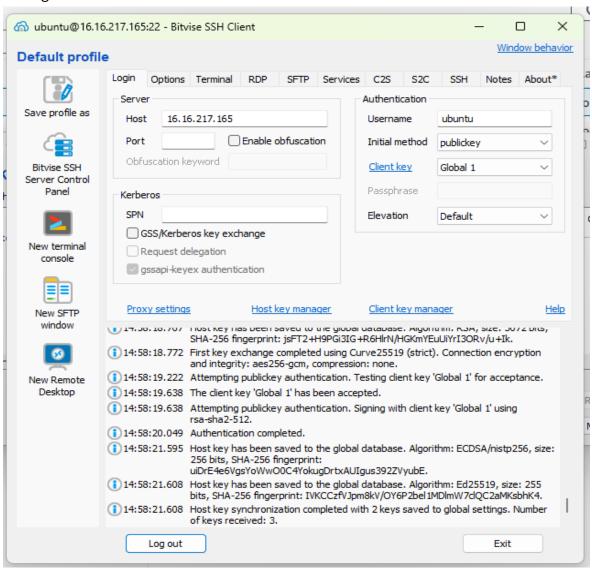


6. Now select key pair and in network settings also click on "Select existing security group" then select the security group which was created and click on Launch Instance.



7. Click on instance and copy public IPv4 address and paste the IPv4 address in host of BitVise SSH client and import key pair in Client key pair manager. After that click

on Log In.



8. Now open terminal in BitVise SSH and then write all commands:

sudo apt-get update

```
🎮 🚳 占 ubuntu@16.16.217.165:22 - Bitvise xterm - ubuntu@ip-172-31-24-84: -
                                                                                                                                                          ×
     list of available updates is more than a week old.
 o 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-172-31-24-84:~$ sudo apt-get update
Get:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [89.7 kB]
Get:3 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [89.7 kB]
Get:4 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 Packages [1401 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [89.7 kB]
Get:6 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/main Translation-en [513 kB]
Get:7 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:8 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:0 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/graphinverse fransfatadin-en [3902 kb]
Get:9 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [29.7 kB]
Get:10 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [9156 B]
Get:12 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [16.3 kB]
Get:13 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:13 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/universe amdo4 2-n-1 metadata [30]
Get:14 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [5844 B]
Get:15 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [93.9 kB]
Get:16 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:18 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [112 B]
Get:19 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [116 B]
Get:20 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
```

sudo apt-get upgrade

```
💌 🔆 👇 ubuntu@16.16.217.165:22 - Bitvise xterm - ubuntu@ip-172-31-24-84: ~
                                                                                                                                            \times
 Get:14 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [3044-0]
Get:15 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [93.9 kB]
Get:16 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/restricted Translation-en [18.7 kB]
Get:16 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [5844 B]
 set:18 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [112 B]
set:19 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [116 B]
set:20 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
 get:21 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
get:22 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328
 .
Get:23 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [31.7 kB]
Get:24 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [10.1 kB]
Get:25 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [18.8
Get:26 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [6504]
 et:27 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata
112 B]
 et:28 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata
 [116 B]
 .
et:29 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [11
 et:30 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [5812
 et:31 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [2152
 Get:33 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metada
 et.34 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metada
 ta [116 B]
Fetched 28.3 MB in 5s (5640 kB/s)
 Reading package lists... Done
Jbuntu@ip-172-31-24-84:~$ sudo apt-get upgrade
```

sudo apt-get install nginx

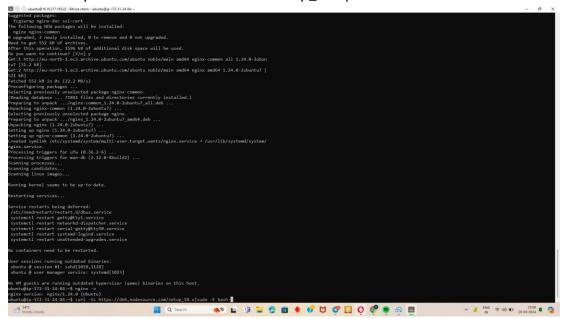
```
🌅 🔆 👍 ubuntu@16.16.217.165:22 - Bitvise xterm - ubuntu@ip-172-31-24-84: ~
                                                                                                                ×
 rocessing triggers for libc-bin (2.39-0ubuntu8.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
Restarting services...
systemctl restart acpid.service chrony.service cron.service irqbalance.service multipathd.service p
ackagekit.service polkit.service rsyslog.service snapd.service ssh.service systemd-journald.service
systemd-networkd.service systemd-resolved.service systemd-udevd.service udisks2.service
Service restarts being deferred:
 systemctl restart ModemManager.service
 /etc/needrestart/restart.d/dbus.service
 systemctl restart getty@tty1.service
 systemct1 restart getryev.

systemct1 restart networkd-dispatcher.service

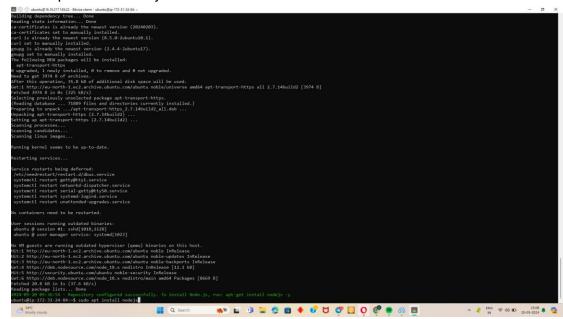
systemct1 restart serial-getty@ttyS0.service

systemct1 restart systemd-logind.service
 systemctl restart unattended-upgrades.service
No containers need to be restarted.
User sessions running outdated binaries:
ubuntu @ session #1: sshd[1018,1128]
ubuntu @ user manager service: systemd[1023]
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-24-84:~$ sudo apt-get install iginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package iginx
ubuntu@ip-172-31-24-84:~$ sudo apt-get install nginx
```

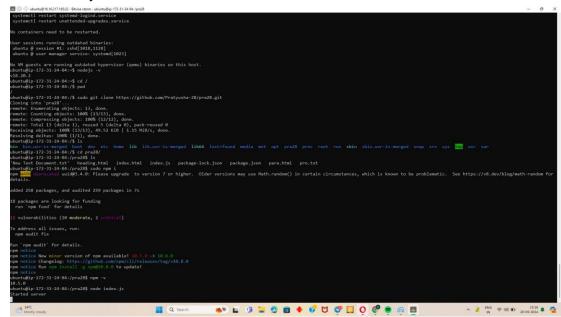
• curl -SL https://deb.nodesource.com/setup_16.x|sudo -E bash -



• sudo apt install nodejs



- git clone https://github.com/Pratyusha-28/pra28.git
- cd pra28
- npm install
- node index.js



9. Now server has started. If we paste it in url section then we can see nginx has started. To stop server click (ctrl+c).



- 10. Now write these all commands:
 - cd/
 - pwd
 - cd etc/nginx/sites-available/
 - sudo nano default

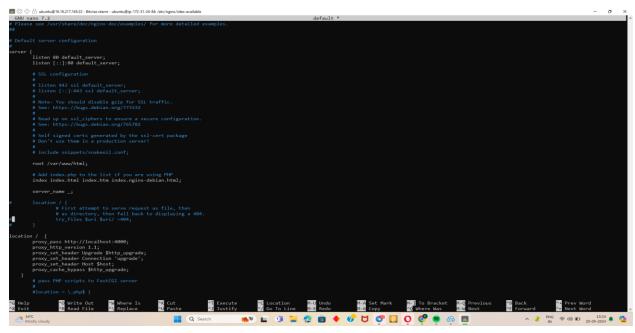
```
ANS.

ANS.
```

- 11. A new window will be opened. There at first go to location area and comment all codes and the write:
 - location/{

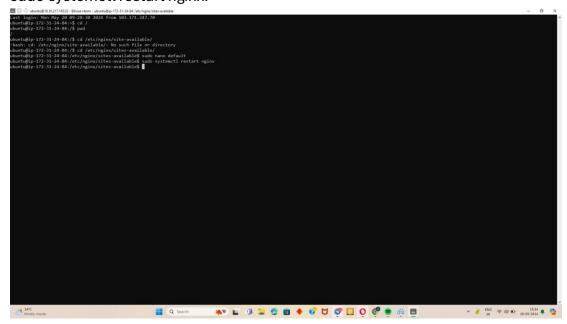
}

```
proxy_pass http://localhost:4000;
proxy_http_version 1.1;
proxy_set_header Upgrade $http_upgrade;
proxy_set_header Connection 'upgrade';
proxy_set_header Host $host;
proxy_cache_bypass $http_upgrade;
```



12. Now open new server terminal and write the commands:

• sudo systemctl restart nginx.



13. Now copy that public IPv4 address again and paste it in url and there we can see that without giving port(:4000) with url we have hosted the website.

