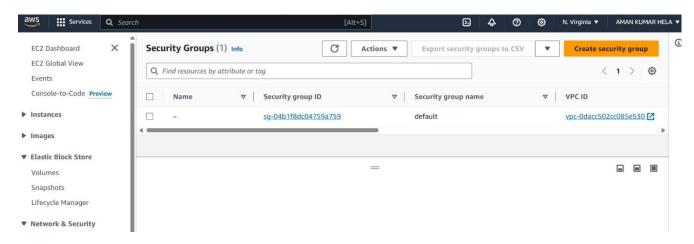
## **Assignment-12:**

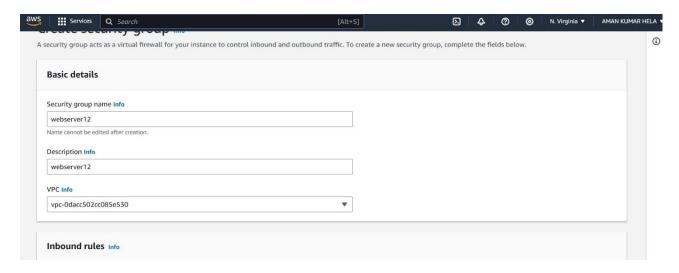
## Deploy and run the project in AWS without using port.

## Steps:

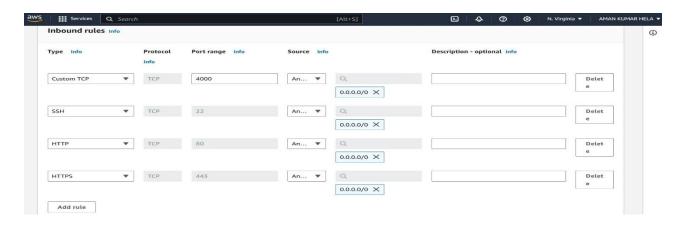
1. At first go to EC2 and then click on Create security group.



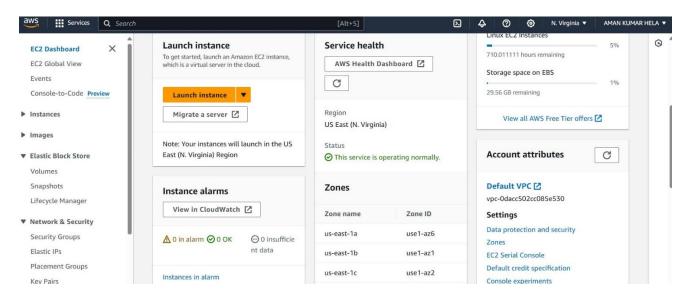
2. Now give its proper name and description.



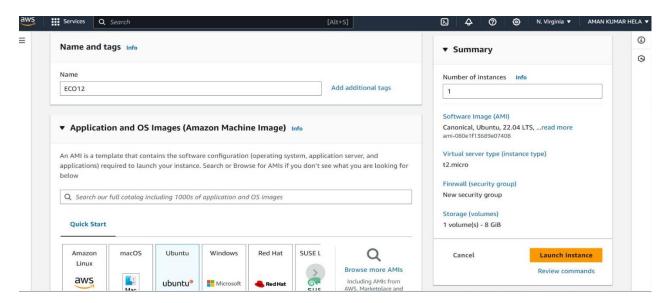
3. Now in inbound click on Add rule and in this way add 4 security rules.



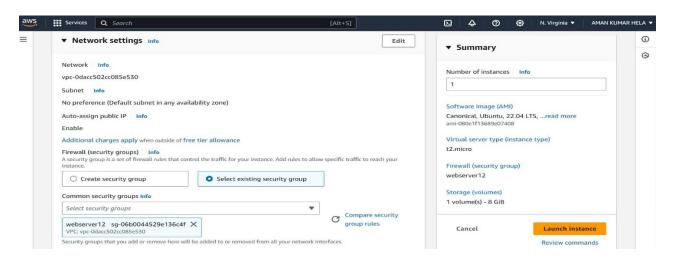
4. Now click on Create Security group and then go to Launch Instance.



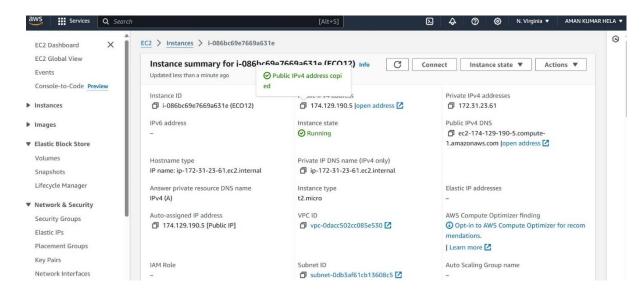
5. After it give name and then click on Ubuntu.



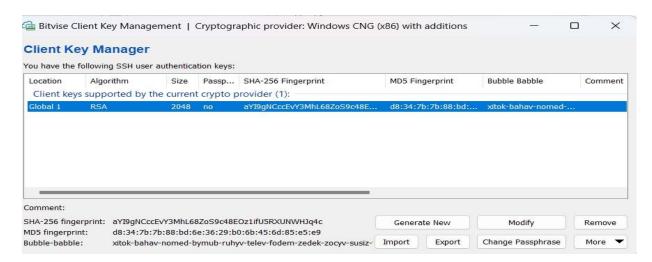
6. Now select key pair and also click on Select existing security group and click on Launch Instance.



7. Click on instance and copy public IPv4 address.



8. Paste it in host of BitVise SSH client and import key pairin Client key pair Manager.



- 9. Now open terminal after login and then write all commands:
  - PWD

```
ubuntu@ip-172-31-23-61:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-23-61:~$ ■
```

sudo apt-get update

```
ubuntu@ip-172-31-23-61:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Fetched 110 kB in 1s (155 kB/s)
Reading package lists... Done
```

• sudo apt-get upgrade

```
weading package lists... Done
ubuntu@ip-172-31-23-61:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages have been kept back:
    linux-aws linux-headers-aws linux-image-aws python3-update-manager ubuntu-advantage-tools ubuntu-pro-client-l10n update-manager-core
The following packages will be upgraded:
    apt apt-utils bash bsdextrautils bsdutils coreutils curl dpkg eject ethtool fdisk klibc-utils libapt-pkg6.0 libblkid1 libc-bin libc6 libcurl3-gnutls libcurl4 libexpat1 libfdisk1 libgnutls30 libgpgme11 libklibc libldap-2.5-0 libldap-common libmount1 libnspr4 libnss3 libsmartcols1 libuuid1 locales mount openssh-client openssh-server openssh-sftp-server python3-cryptography
```

• sudo apt-get install nginx

```
ubuntu@ip-172-31-23-61:~$ sudo apt-get install nginx

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8

libjpeg8 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter

libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4

nginx-common nginx-core

Suggested packages:

libgd-tools fcgiwrap nginx-doc ssl-cert

The following NEW packages will be installed:
```

• curl –SL https://deb.nodesource.com/setup\_16.x|sudo –E bash –

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-23-61:~$ curl -SL https://deb.nodesource.com/setup_16.x | sudo -E bash -

bash: -: No such file or directory

% Total  % Received % Xferd Average Speed Time Time Time Current

Dload Upload Total Spent Left Speed

72 5617 72 4098 0 0 47305 0 --:--:- --:-- 47651
```

• sudo apt install nodejs

```
ubuntu@ip-172-31-23-61:~$ sudo apt install nodejs

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:
    javascript-common libc-ares2 libjs-highlight.js libnode72 nodejs-doc

Suggested packages:
    npm

The following NEW packages will be installed:
    javascript-common libc-ares2 libjs-highlight.js libnode72 nodejs nodejs-doc

0 upgraded, 6 newly installed, 0 to remove and 7 not upgraded.

Need to get 13.7 MB of archives.

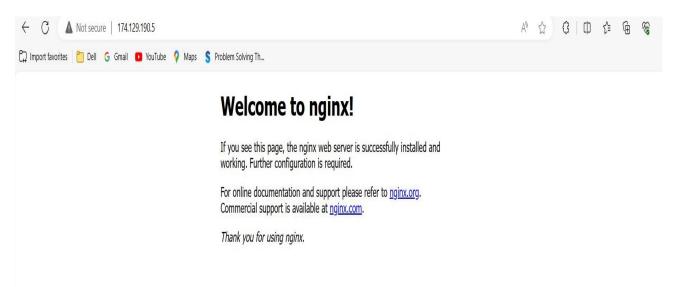
After this operation, 54.0 MB of additional disk space will be used.
```

• git clone

https://github.com/Amankr828/myrepo.git

- cd myrepo
- npm install
- node index.js

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



```
Run `npm audit` for details.
ubuntu@ip-172-31-23-61:~/myrepo$ node index.js
Started server
```

11. Now write these all commands:

- cd /
- pwd
- cd etc/nginx/sites-available/

```
ubuntu@ip-172-31-23-61:~/myrepo$ cd /
ubuntu@ip-172-31-23-61:/$ pwd /
/
ubuntu@ip-172-31-23-61:/$ cd etc/nginx/sites-available/
ubuntu@ip-172-31-23-61:/etc/nginx/sites-available$
```

sudo nano default

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

location/{

}

```
proxy_pass <a href="http://localhost:4000">http://localhost:4000</a>;

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;
```

13. After it click ctrl+x, then y then click enter.

```
# listen [::]:443 sole@aut_server;

# Note: You should disable gzip for SSL traffic.
# See: https://bugs.debian.org/773332
# Read up on ssl_ciphers to ensure a secure configuration.
# See: https://bugs.debian.org/755782
# Read up on ssl_ciphers to ensure a secure configuration.
# See: https://bugs.debian.org/755782
# Sslf signed certs generated by the ssl-cert package
# Don't use them in a production server!
# include snippets/snakeoil.conf;

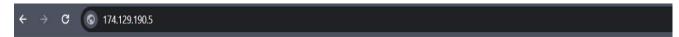
root /var/www/html;
# Add index.php to the list if you are using PHP
index index.html index.htm index.nginx-debian.html;

server_name ;
location/{
    proxy_pass http://localhost:4000;
    proxy_htmly_version 1.1;
    proxy_set_header bonaction 'upgrade;
    proxy_set_header bonaction' upgrade;
    proxy_set_header bonaction' upgrade;
}

# First attempt to serve request as file, then
# as directory, then fall back to displaying a 404.
    try_files Suri Suri/ =404;
}

# pass PHP scripts to FastCGI server
# C Help
# West Out ## Where Is # Cut # Execute #C Location ## Undo ## Set Mark ## To Bracket ## C Previous
# Exit
# Read File # Replace ## Paste ## Justify
# Out time ## Read Copy ## West Mark ## Displace ## Dis
```

- 14. Now open new server terminal and write cd repo2.
- 15. Write sudo systemctl restart nginx
- 16.Now copy that public IPv4 address again and paste it in url and there you can see that without giving port(:4000) with url we have hosted the website.



Hello Students...