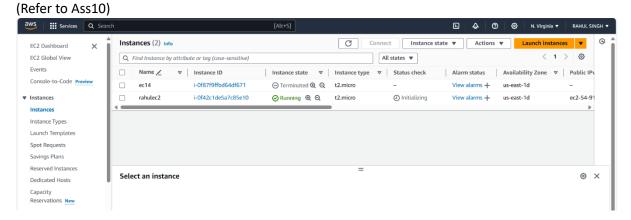
ASSIGNMENT-12

Problem Statement: Deploy a project from GitHub to EC2 without using Port.

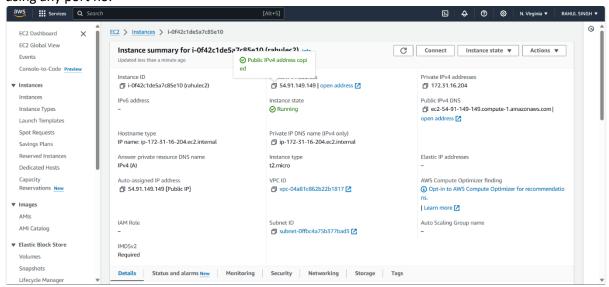
Procedures:

- 1. Sign-in to AWS console.
- 2. Go to the EC2 dashboard. Now go to the instances page.
- 3. Click on the create new instance button.
- 4. Now create an EC2 server using the Security Group created earlier and enter the user data



- 5. Create the instance and click on the instance after creation.
- 6. Copy the public IPv4 address and paste it in another browse. The nginx homepage will show up. Our server is working perfectly. Note, in previous assignments we used to connect to our project webpages using port no. However, in this exercise we are going to access our project webpage without

using any port no.

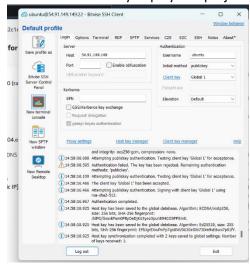


7. Copy the Public IPv4 address of the server instance and use this to connect it to the server using Bitvise

SSH client. (Refer Ass7)

8. Now open the terminal in Bitwise without entering our port no.

We have successfully deployed a project from GitHub to EC2 without using port.



9. Enter the following commands in it.

Sudo apt - get update

Sudo apt -get upgrade

10.Write the command nginx -v to check the version

```
idervice restarts being deferred:

/etc/needrestart/restart.d/dbus.service

w systemct1 restart getty@tty1.service

systemct1 restart serionvikd-dispatcher.service

systemct1 restart serial-getty@tty50.service

systemct1 restart systemd-logind.service

systemct1 restart unattended-upgrades.service

No containers need to be restarted.

User sessions running outdated binaries:

ubuntu @ user manager service: systemd[1008]

ylo Vi guests are running outdated hypervisor (qemu) binaries on this host.

ubuntugip-172-31-16-204:-$ ginx ~ v

inginx version: nginx/1.24.0 (Ubuntu)

(Ubuntugip-172-31-16-204:-$

clis Status and alarms kev Monitoring Security Networking Storage Tags
```

11.Write curl -SL https://deb.nodesource.com/setup 18.x|ssudo -E bash -

```
Systemctl restart unattended-upgrades.service

No containers need to be restarted.

User sessions running outdated binaries:
| ubuntu @ session #1: sshd[989,1113] |
ubuntu @ session #1: sshd[989,1113] |
ubuntu @ user manager service: systemd[1008] |
No VM guests are running outdated hypervisor (qemu) binaries on this host.
|ubuntu@jp-172-31-16-204:-$ nginx -V |
nginx version: nginx/1.24.0 (Ubuntu) |
ubuntu@jp-172-31-16-204:-$ curl -St. https://deb.nodesource.com/setup_18.x | sudo -E bash -
ails Status and alarms New Monitoring Security Networking Storage Tags
```

12. Then we have to install nodejs for installing nodejs we write the command sudo apt install nodejs.

13.To check the version we write nodejs -v

```
systemici restart systemic-logano.service
systemici restart unattended-upgrades.service
No containers need to be restarted.

User sessions running outdated binaries:
_ ubuntu @ session #1: sshd[989,1113]
ubuntu@ip-172-31-16-204:-$ nodejs -v
v18.20.2
ubuntu@ip-172-31-16-204:-$
ubuntu@ip-172-31-16-204:-$
```

14 Enter the following commands in it.

pwd

(To check current directory)

cd /

(To go to root folder)

pwd

write Is.

```
No containers need to be restarted.

User sessions running outdated binaries:

ubuntu @ session #1: sshd[989,1113]

ubuntu@ip-172-31-16-204:-$ nodejs -v

vi8.20.2

ubuntu@ip-172-31-16-204:-$ cd /

ubuntu@ip-172-31-16-204:/$ sudo git clone https://github.com/Rahulsinghrajpt/ass8.git

//

ubuntu@ip-172-31-16-204:/$ sudo git clone https://github.com/Rahulsinghrajpt/ass8.git

Cloning into 'ass8'...

remote: Enumerating objects: 100% (10/10), done.

remote: Counting objects: 100% (10/10), done.

remote: Total 10 (delta 2), reused 5 (delta 0), pack-reused 0

Receiving objects: 100% (10/10), 49.12 KiB | 7.02 MiB/s, done.

Resolving deltas: 100% (2/2), done.

ubuntu@ip-172-31-16-204:/$ look home lib64 mnt root sbin.usr-is-merged sys var bin dev lib lost+found opt run snap

sin usr-is-merged et lib.usr-is-merged media proc sbin srv usr ubuntu@ip-172-31-16-204:/ass8$ ls

New Text bocument.txt 'index.js package-lock.json package.json

ubuntu@ip-172-31-16-204:/ass8$ ls

New Text bocument.txt 'index.js package-lock.json package.json
```

15. For npm installing we write sudo npm i imeans install.

```
Unburtu@ip-172-31-16-204:/$ cd ass8; uburtu@ip-172-31-16-204:/$ cd ass8; uburtu@ip-172-31-16-204:/ass8 1s 
'New Text Document.xt' index.js package-lock.json package.json 
unburtu@ip-172-31-16-204:/ass8 sudo npm in 
man dependent union@is.4.e: Please upgrade to version 7 or higher. Older versions may use Nath 
.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-
random for details.

added 258 packages, and audited 259 packages in 9s

18 packages are looking for funding 
run 'npm fund' for details

12 vulnerabilities (10 moderate, 2 critical)

To address all issues, run: 
npm audit fix

Run 'npm audit' for details.

npm notice New minor version of npm available! 10.5.0 -> 10.8.0 
npm notice New minor version of npm available! 10.5.0 -> 10.8.0 
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.8.0
```

16. After installing npm we have to check the version of npm for checking the version of npm we write npm -v.

```
npm notice
npm notice New minor version of npm available! 10.5.8 -> 10.8.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.8.0
npm notice Run npm install -g npm@lo.8.0 to update!
npm notice
ubuntu@ip-172-31-16-204:/ass8$ npm -v
ubuntu@ip-172-31-16-204:/ass8$
```

17. Then we shall started the server for stating the server we write node index. js

```
npm notice
ubuntu@ip-172-31-16-204:/ass8$ npm -v
10.5.0
ubuntu@ip-172-31-16-204:/ass8$ node index.js
Started server
```

18. Copy the ipv4 public address and paste them into new window the nginx will be running.



19. Then we wite the 4000 with the port to connect the index. js file.



20. Again we will open new terminal console.



21. Here we write the following command

Cd /

Pwd

Cd /etc/nginx/sites-available

Sudo nano default

22. The we write the new location and previous loctation we will comment out then write the new location.

The after we press the ctrl x for exit

Then press Y.

```
server_name _;

# location / {
    # First attempt to serve request as file, then
    # as directory, then fall back to displaying a 404.
    try_files Suri Suri/ s484;

}

location / {
    proxy_pass http://localhost:4000;
    proxy_http_version 1.1;
    proxy_set_header upgrade shttp_upgrade;
    proxy_set_header Host Shost;
    proxy_set_header Host Shost;
    proxy_cache_bypass $http_upgrade;
}
```

23. Again we back to our terminal.

```
Last login: Mon May 28 09:28:57 2024 from 110.224.103.70

ubuntu@ji-172-31-16-204:-$ cd /

ubuntu@ji-172-31-16-204:-$ cd /

ubuntu@ji-172-31-16-204:/$ pwd

ubuntu@ji-172-31-16-204:/$ cd /etc/nginx/sites-available/

ubuntu@ji-172-31-16-204:/etc/nginx/sites-available/

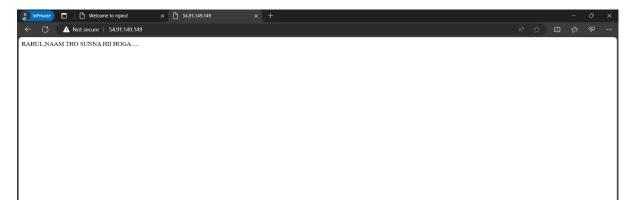
ubuntu@ji-172-31-16-204:/etc/nginx/sites-available$ sudo nano default

ubuntu@ji-172-31-16-204:/etc/nginx/sites-available$ sudo systemctl restart nginx

ubuntu@ji-172-31-16-204:/etc/nginx/sites-available$ sudo systemctl restart nginx

ubuntu@ji-172-31-16-204:/etc/nginx/sites-available$ [
```

24.And now we open the new windows copy the ipv4 public address here we not write the :4000 port number then when we paste the port the tap the enter our project will deploy without port.



without entering our port no.

We have successfully deployed a project from GitHub to EC2 without using port.