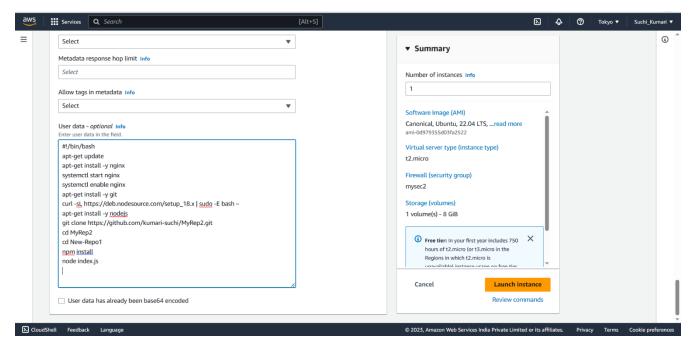
ASSIGNMENT-12

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

1. Sign-in to AWS console. Then Go to the EC2 dashboard. Now go to the instances page. Click on the create new instance button. Now create an EC2 server using the Security Group created earlier and enter the user data (Refer to Ass10).



2. Now successfully instances created.



3. Then click on the instance after creation. Copy the public IPv4 address and paste it in another browse. The nginx homepage will show up.

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

Thank you for using nginx.

- 4.Then Copy the Public IPv4 address of the server instance and use this to connect it to the server using Bitvise SSH client. (Refer Ass7)
- 5. Then open the terminal in Bitvise.
- 6.Then Enter the following commands in it.

> pwd (To check current directory)

```
ubuntu@ip-172-31-15-208:~$ pwd
/home/ubuntu
```

> cd /

```
ubuntu@ip-172-31-15-208:~$ cd /
```

(To go to root folder)

> pwd

```
ubuntu@ip-172-31-15-208:/$ pwd
/
```

> cd /etc/nginx/sites-available/

```
ubuntu@ip-172-31-15-208:/$ cd /etc/nginx/sites-available/
ubuntu@ip-172-31-15-208:/etc/nginx/sites-available$
```

(To open the sites-available directory under nginx)

> sudo nano default

```
🔁 👸 🕂 🦰 ubuntu@43.206.153.165:22 - Bitvise xterm - ubuntu@ip-172-31-15-208: /etc/nginx/sites-available
                                                                                                  П
                                                                                                       \times
 GNU nano 6.2
  applications, such as Drupal or Wordpress. These applications will be made
 available underneath a path with that package name, such as /drupal8.
 Please see /usr/share/doc/nginx-doc/examples/ for more detailed examples.
 Default server configuration
server {
listen 80 default_server;
        listen [::]:80 default_server;
        # SSL configuration
        # listen 443 ssl default_server;
        # listen [::]:443 ssl default_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/765782
        # Self 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
```

7. After opening the default file in the nano editor, search for the location / {}. It should be after server_name_;. Then comment out the location block and each and every line inside the block.

```
server_name _;

#location / {
          # First attempt to serve request as file, then
          # as directory, then fall back to displaying a 404.
          #try_files $uri $uri/ =404;
#}
```

8. Then paste the following code just under the closing curly bracket.

```
#location / {
    # First attempt to serve request as file, then
    # as directory, then fall back to displaying a 404.
    #try_files $uri $uri/ =404;

#}
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;
}
```

9. Now save it by Ctrl+X and exit nano editor. You will be reverted back to the terminal. Type the following command –

> sudo systemctl restart nginx

```
ubuntu@ip-172-31-14-117:/etc/nginx/sites-available$ sudo systemctl restart nginx
ubuntu@ip-172-31-14-117:/etc/nginx/sites-available$
```

10. Now paste the public IPv4 address in your browser. Our project page will show up without entering our port no.



Hello, I am Suchi Kumari

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