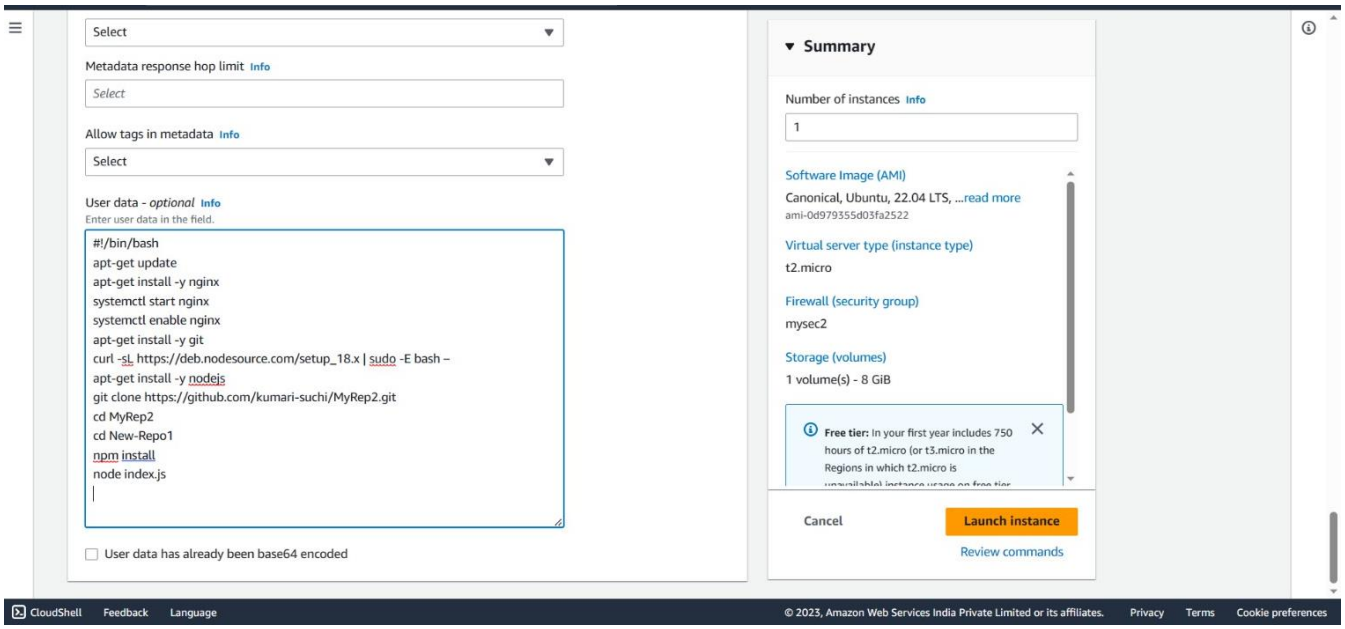
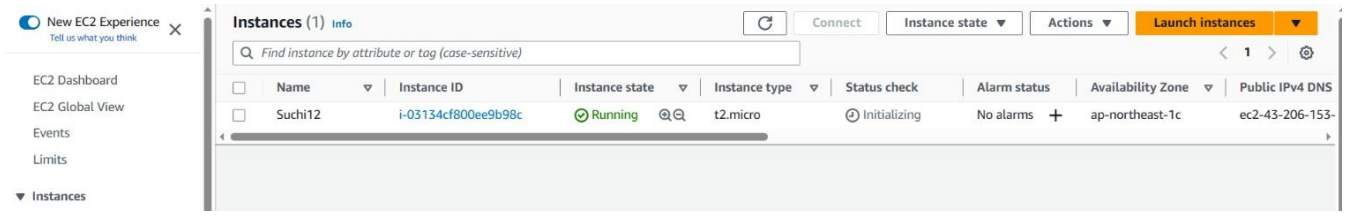
AWS-12

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.

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**

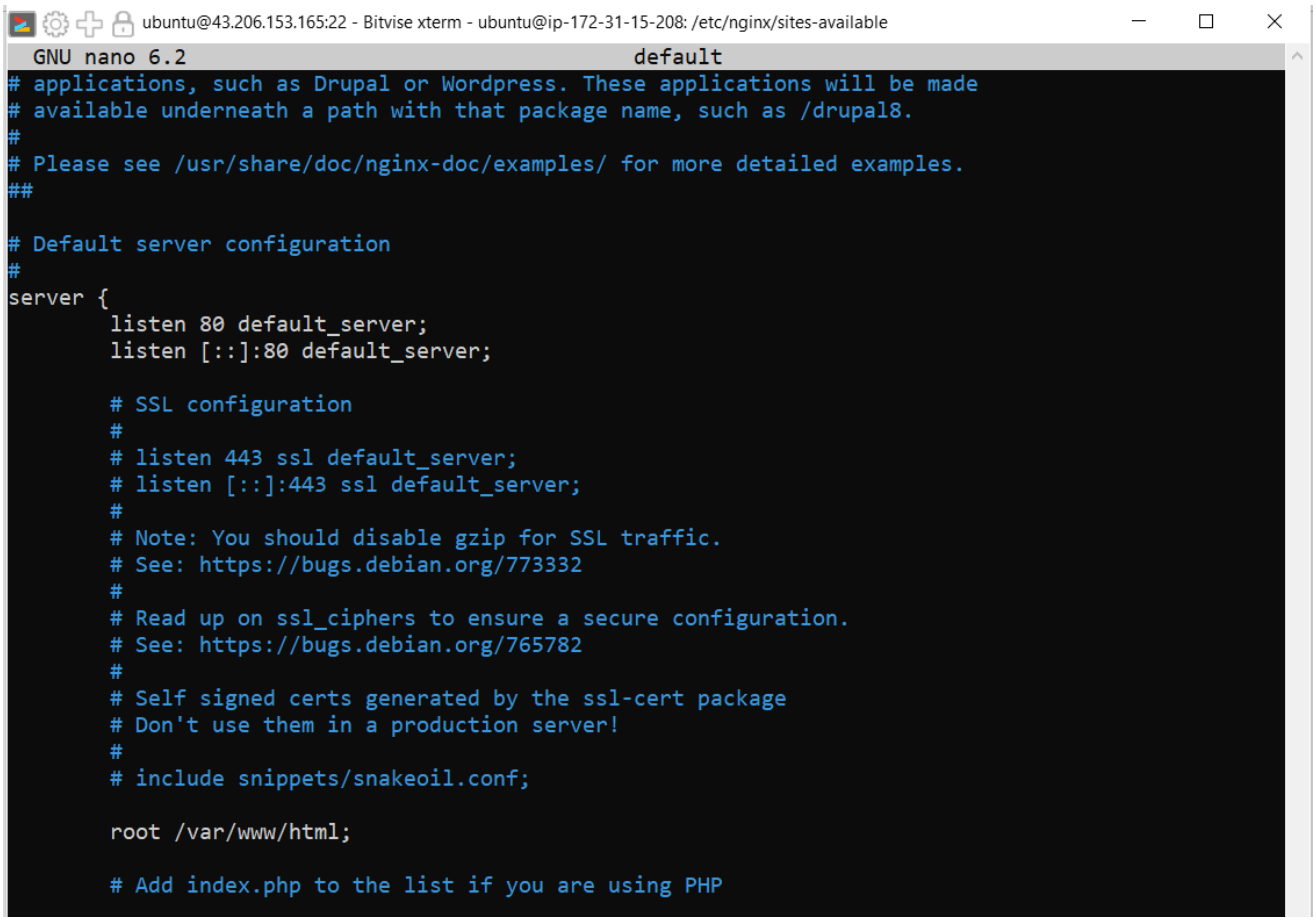
```
ubuntu@ip-172-31-15-208:/$ pwd
/
```

➢ **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



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 / {
        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;
}
```

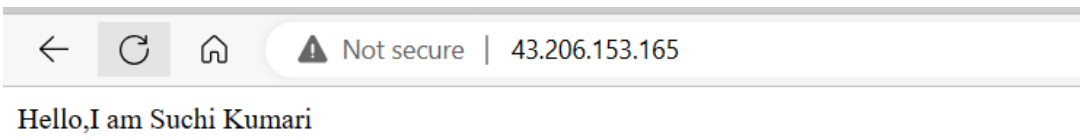
```
        server_name _;

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



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