Assignment: 09

Problem Statement: Deploy a project from GitHub to EC2.

Procedure:

Step 1: Log in to AWS and create an EC2 instance.

Step 2: Open terminal and connect with instance using ssh command.

```
→  ~ ssh -i ~/Downloads/sshKey.pem ubuntu@3.109.4.114
The authenticity of host '3.109.4.114 (3.109.4.114)' can't be established.
ECDSA key fingerprint is SHA256:UQZ2sXjgcxLGfyS6ii36B0cHiRgCiL+eEhraAnSf9CU.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.109.4.114' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1014-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

  System information as of Wed Apr 24 05:04:29 UTC 2024

  System load:  0.109375        Processes:             103
  Usage of /:   20.4% of 7.57GB  Users logged in:       0
  Memory usage: 21%             IPv4 address for eth0: 172.31.34.234
  Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status


The list of available updates is more than a week old.
To 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-172-31-34-234:~$ |
```
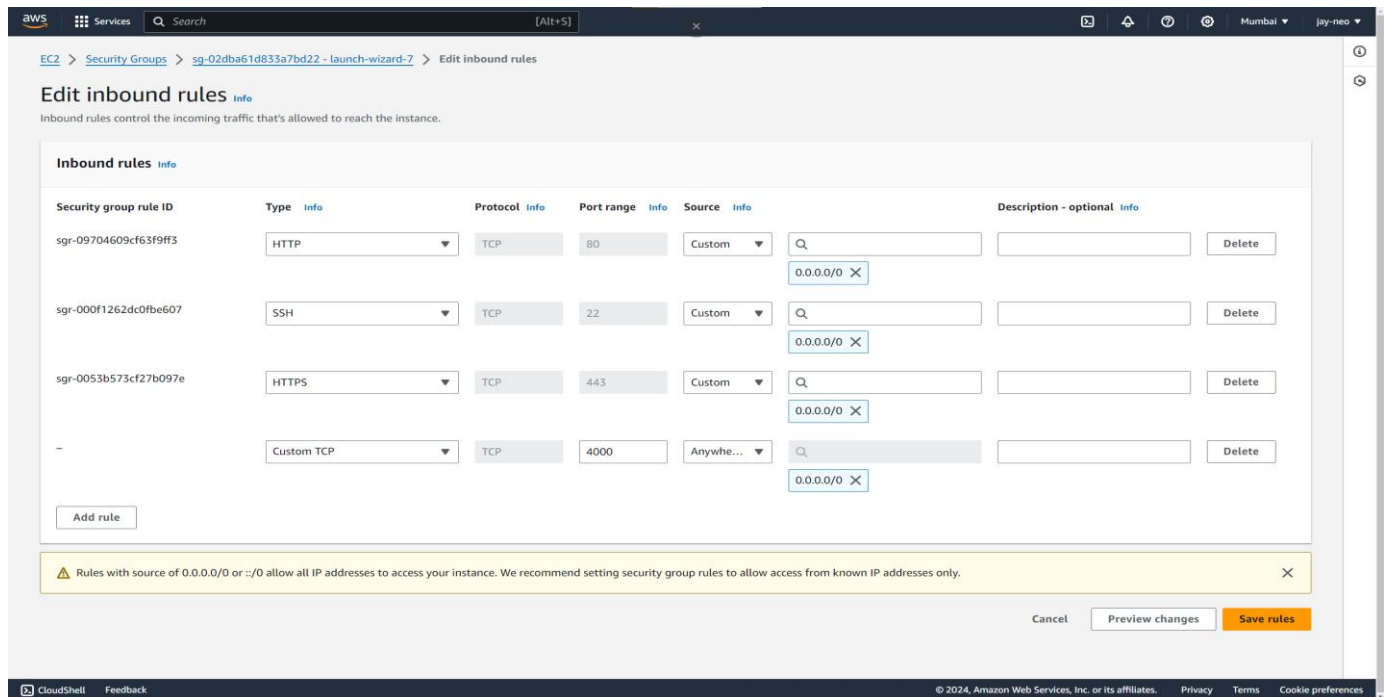
Step 3: Execute the following commands:
- ➢ sudo apt-get update
- ➢ sudo apt-get upgrade
- ➢ sudo apt-get install nginx
- ➢ curl -SL https://deb.nodesource.com/setup_18.x | sudo -E bash
- ➢ sudo apt install nodejs
- ➢ git clone https://github.com/moumita02314/myawsproject1

Step 4: The index.js file in GitHub consists of port no "4000". Go to the Security option of the instance ➔ Click the Security Group ➔ go to Edit inbound rules ➔ Click on Add rules ➔ set Type as 'Custom TCP' with Port range of '4000' Source as 'Anywhere-IPv4' and Save the rule.

Step 5: In terminal enter into myawsproject1 and execute the following commands:
- ➢ cd myawsproject1
- ➢ npm install
- ➢ node index.js

Step 6: Go to web browser in the public IPv4 with specifying port number.

Hello mckv