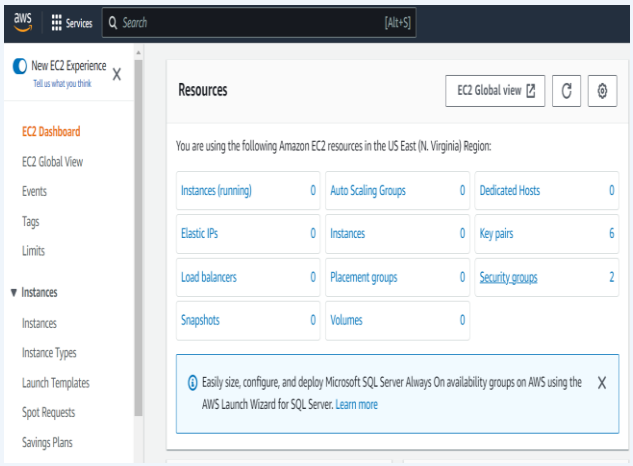
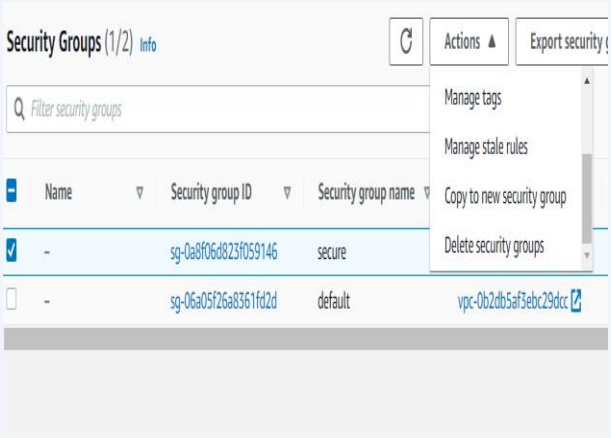
Assignment No. 12

Deploy and run project in aws without using port

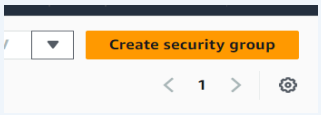
1. **Visit aws.amazon.com and Sign in.Go to EC2 Service and click on “Security Groups”**

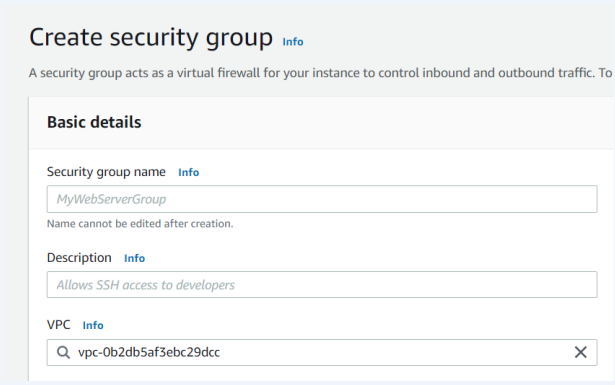


2. **Select all security groups except the default and go to Actions dropdown menu and choose “Delete security groups”**

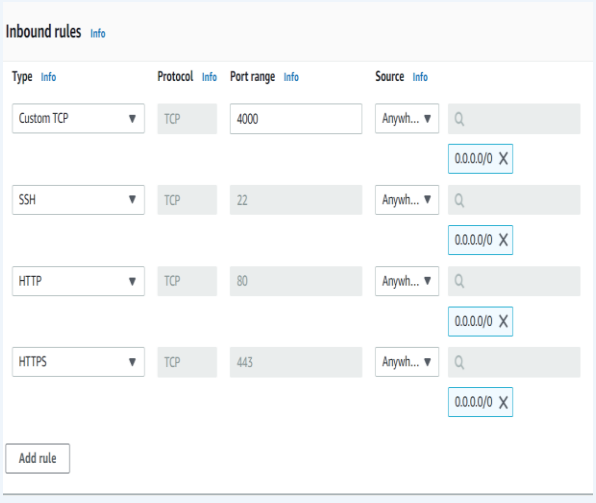


3. **Click on “Create security group”.Enter the “Security group name” and “Description”**

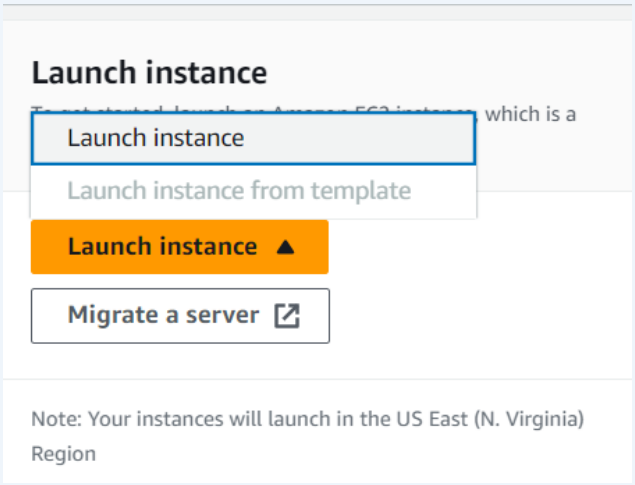




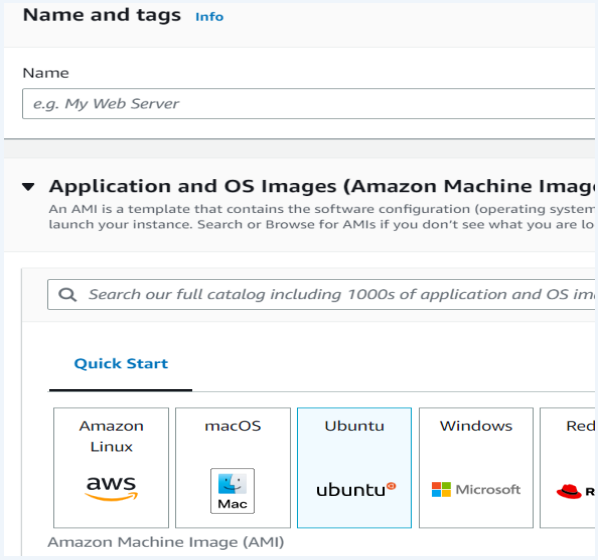
4. **Add the Inbound rules with details as shown in the figure.After entering the details click on “Create security group”**



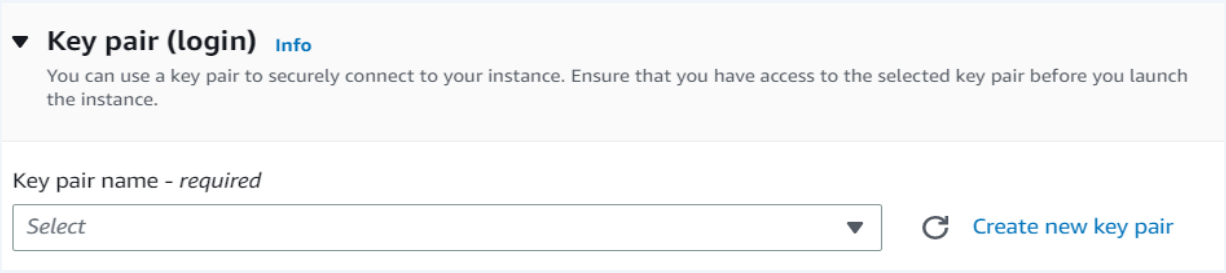
5. **Go to EC2 dashboard and Click on "Launch Instance"**



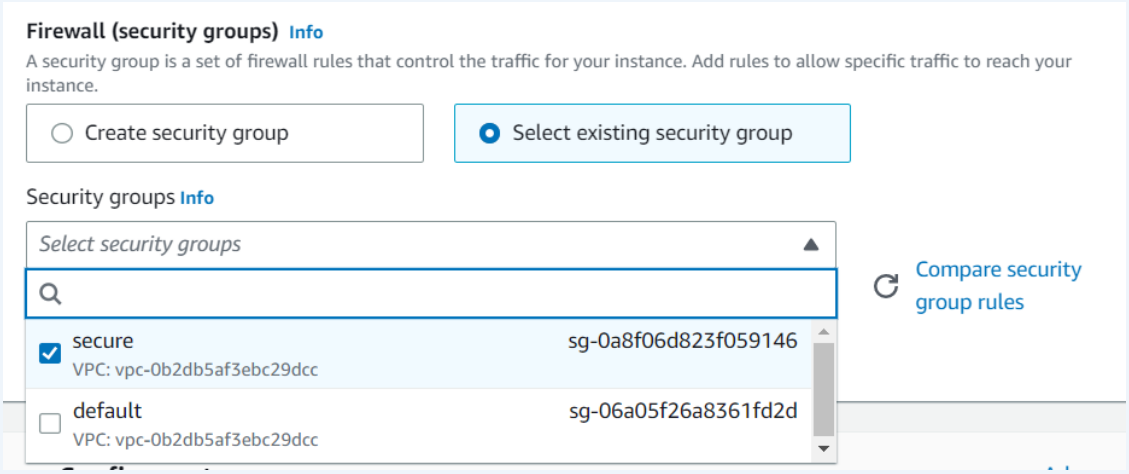
6. **Enter the instance name and select Ubuntu as Amazon Machine Image**



7. **Select key pair**



8. **Under network settings ,click on "Select existing security group" and in the security group dropdown select the security group which you just created**



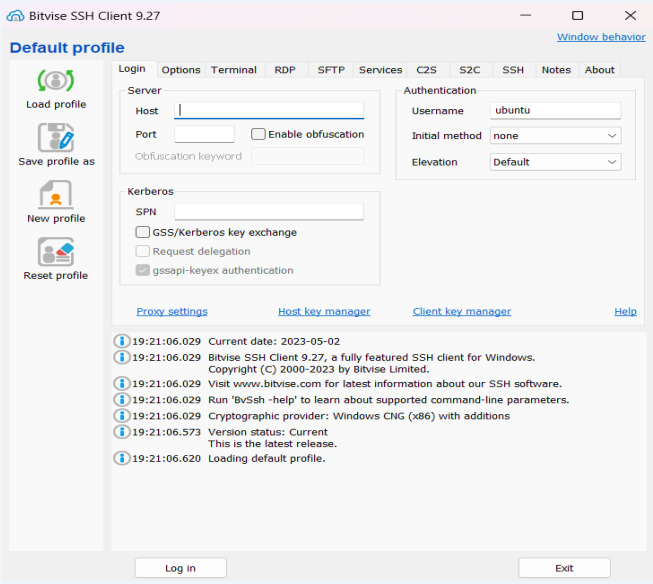
9. **Type the following user data under advanced details section.Then click on create instance.**

User data - *optional* Info

Enter user data in the field.

```
#!/bin/bash
apt-get update
apt-get install -y nginx
systemctl start nginx
systemctl enable nginx
apt-get install -y git
curl -sL https://deb.nodesource.com/setup_18.x | sudo -E bash -
apt-get install -y nodejs
git clone https://github.com/hiteshperiwal/hello1.git
cd ...
npm install
node index.js
```

10. **Login to Bitwise SSH client using the public ip address.**



11. **Now login in Bitwise SSH client using the public ip address.Open the terminal and type the following commands and then open nano editor.In the nano editor after commenting the previous location type the new location as given below and then save and exit.**

```
ubuntu@ip-172-31-87-57:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-87-57:~$ cd /
ubuntu@ip-172-31-87-57:/$ pwd
/
ubuntu@ip-172-31-87-57:/$ cd /etc/nginx/sites-available/
ubuntu@ip-172-31-87-57:/etc/nginx/sites-available$ sudo nano default
```

```
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;
    }
```

12. **After exiting the nano editor,type the following command in the terminal to restart the nginx web server.After restarting the nginx web server you will be able to access the website without the port number . Hence we are running project in aws without using port number.**

```
ubuntu@ip-172-31-87-57:/etc/nginx/sites-available$ sudo systemctl restart nginx
ubuntu@ip-172-31-87-57:/etc/nginx/sites-available$
```