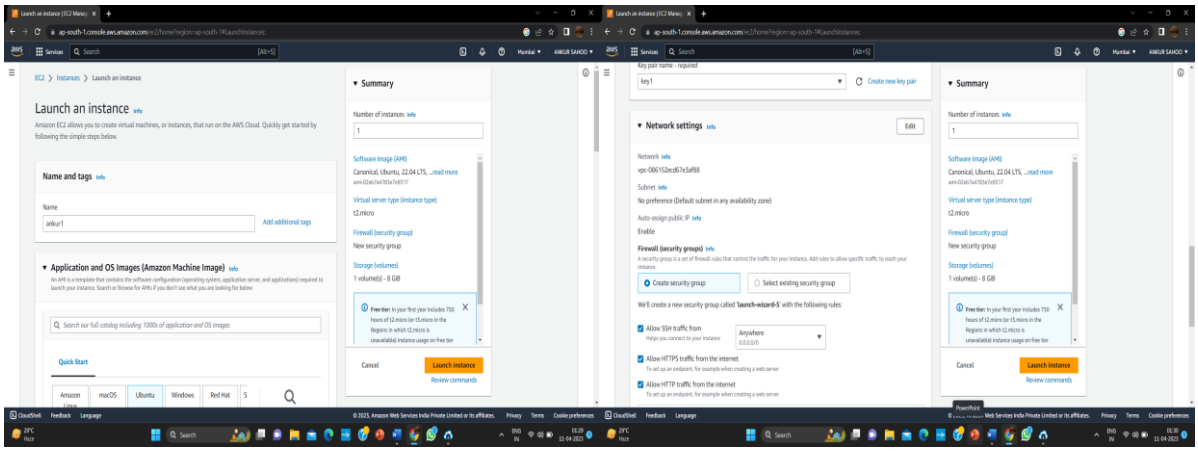
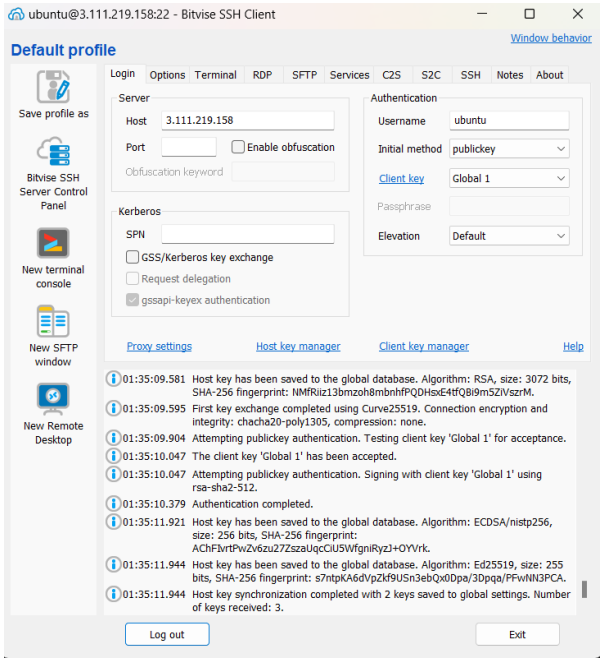
Assignment – 09

Problem Statement – Deploy a project to EC2 from GitHub.

- Log in to your AWS account and go to EC2, then click on ‘Instances’ and then click to ‘Launch instance’. Then enter the name of the instance and select the server ‘Ubuntu’ and keep the hardware as ‘t2.micro’. Select an existing key pair or create a new pair, allow SSH, HTTP, HTTPS and then click on ‘Launch instance’.



- Now click on the newly created instance and copy the IPv4 address. Open Bitvise SSH Client, paste the IP address at Host, set the username as ‘ubuntu’, go to client key manager and select the existing key or import your newly created key, set the initial method as ‘publickey’, client key as ‘Global 1’. Now click on ‘Log in’ and lastly click on ‘Accept and save’.



- Now click on ‘New terminal console’ and run the following commands –

1. **sudo apt-get update && sudo apt-get upgrade** (to update the ubuntu server)
2. **sudo apt install nginx** (to install nginx)

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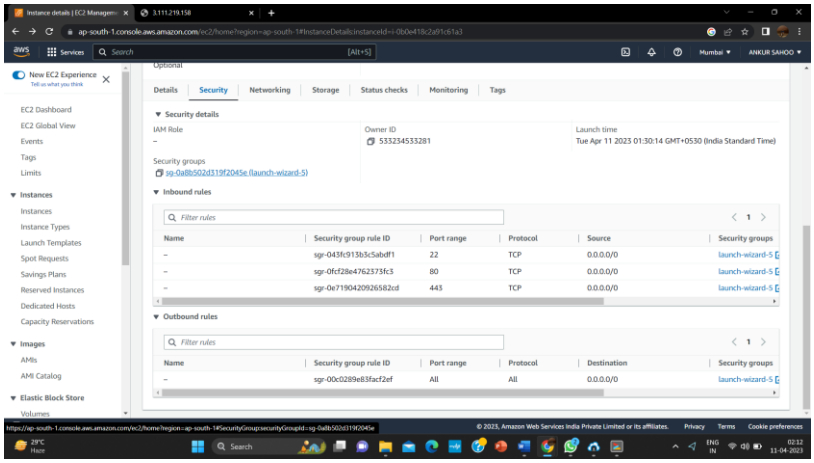
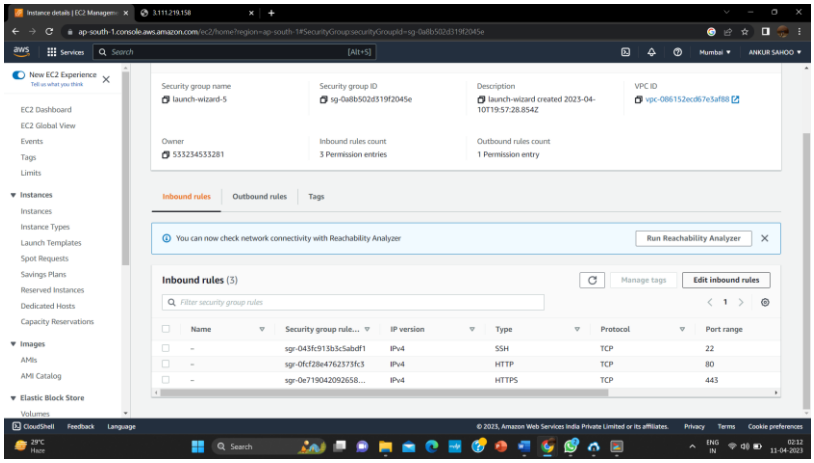
3. **curl -sl https://deb.nodesource.com/setup_16.x | sudo -E bash -** (curl is a command-line tool for getting or sending data including files using URL syntax, sudo bash runs the script with elevated privileges)
4. **sudo apt install nodejs** (to install node.js)
5. **git clone *repository link*** (primarily used to point to an existing repo and make a clone or copy of that repo at in a new directory, at another location)
6. **cd New-Repo1** (to change the current working directory)
7. **npm install** (installs node package manager, it installs, manages, shares modules of JavaScript code)
8. **node index.js** (runs the JavaScript file on node.js runtime environment)

- Now again go to your EC2 server, click on the instance id and go to 'Security', then click on the security groups.



- Then click on 'Inbound rules' and then click on 'Edit inbound rules'.



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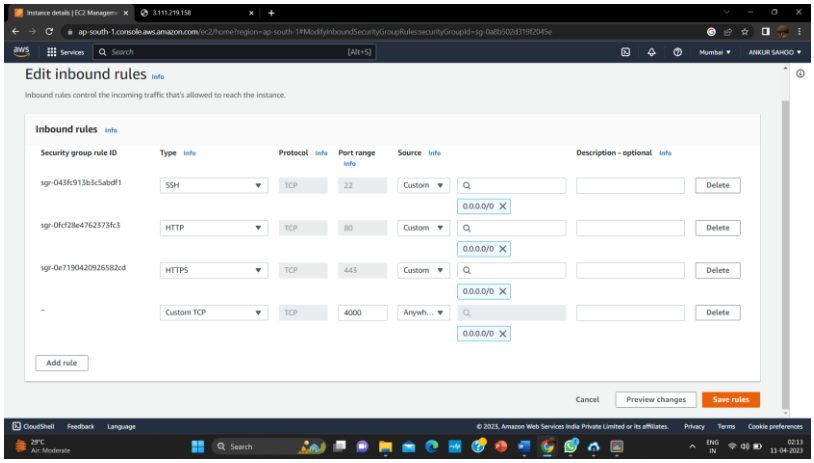
- Click on ‘Add rule’, keep the type as ‘Custom TCP’, give a range of 4000 in ‘Port range’ and select the ‘Source’ as ‘Anywhere public IPv4’ and lastly click on ‘Save Rules’.



- Copy the Public IPv4 address from EC2 instance and paste it in a new tab with **:4000** and click enter and the webpage will run successfully.