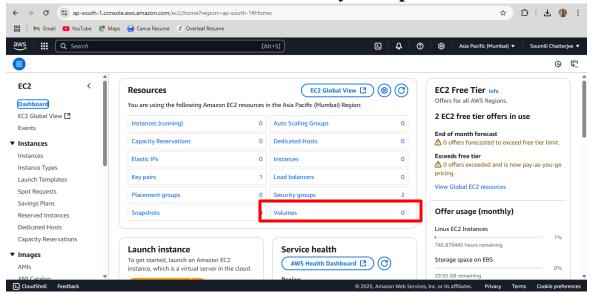
Assignment No. – 10

Problem Statement: Deploy a project from GitHub to EC2 by creating a new security group and user data.

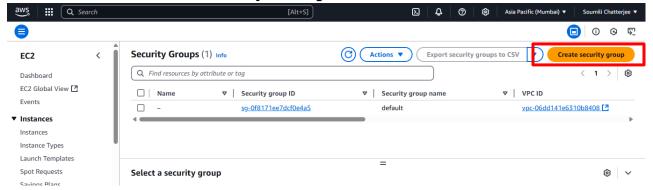
Procedure:

- 1. Sign In to the AWS account.
- 2. Go to EC2 dashboard.
- 3. Under **Resources** section click on **Security Groups**.

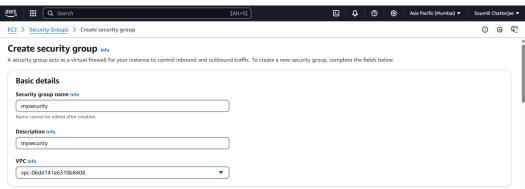


4. Select all the **Security Groups** other than the one named "**default**". Click on **Actions** button. Scroll down and click on "**delete all security groups**".

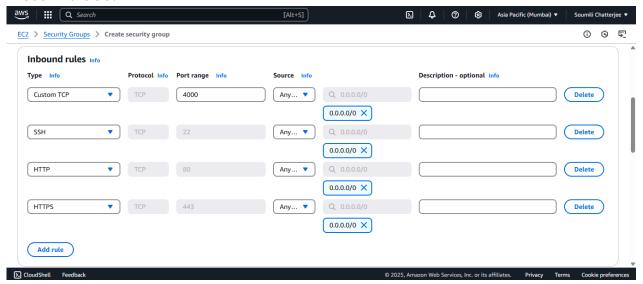
5. Next, click on "Create Security Group" button.



6. Now, give a name to the security group and write the same in the description below.

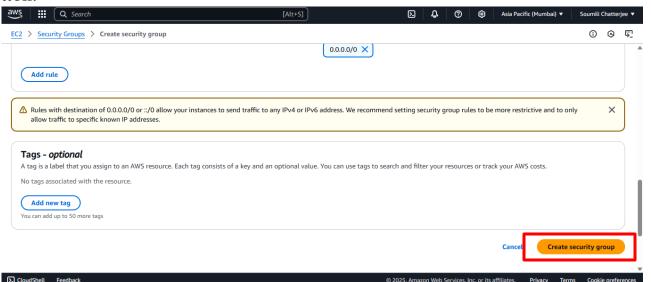


7. Next, we will add **Inbound Rules**. Start adding by clicking the **Add rule** button. These include:

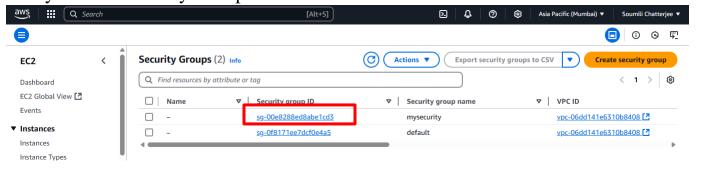


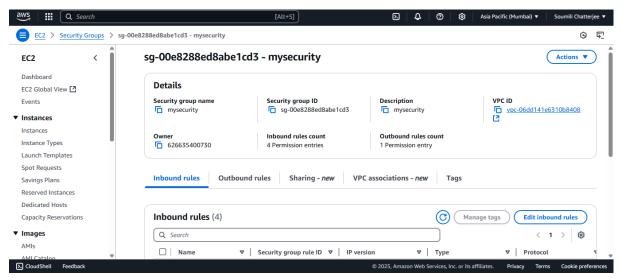
The first one with custom TCP has a specific port range(i.e.,4000) which is required to connect the project.

8. All other sections remain unchanged. Next, click on the **Create security group** button.

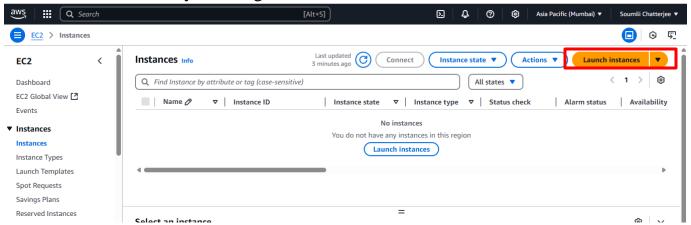


9. Now. go back to the security groups list and click on the **security group ID** of the newly created Security Group.

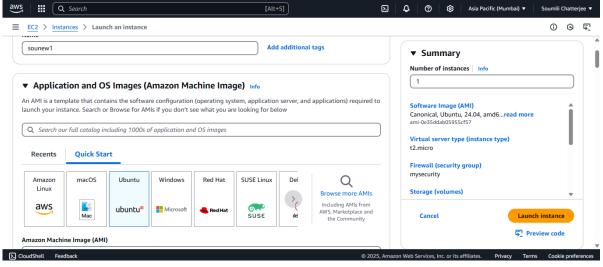


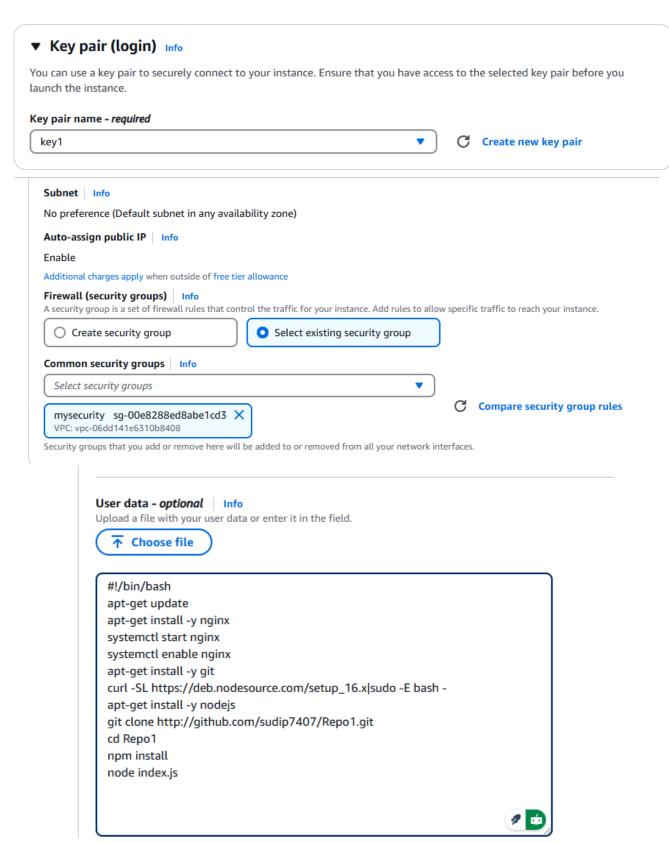


10. Now, we go to the **instances** section from the left side navigation bar. We create a new **EC2 instance** by clicking on the **Launch Instance** button.

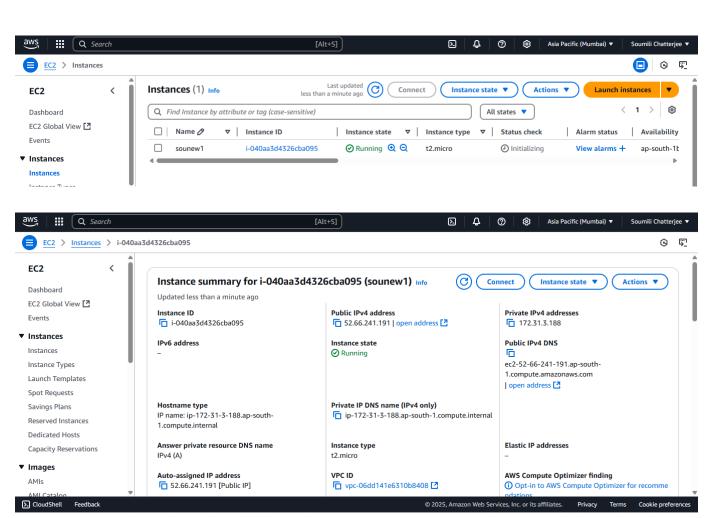


11. Now, give a **name**, select **Ubuntu** as **OS**, select a **keypair** or generate a new one if none is available, then under **Network settings** select "**Select Existing Security Group**" option, now under the security groups dropdown menu select the one we just created. Now, scroll down and click on the **Advanced Details** option and scrolldown to the newly appeared sub-sections until you find **User Data** section. Write the commands in the given box.





- 12. Now, we click on **launch instance** button.
- 13. Next, we click on the 'Instance Id' link of our newly created server in our Instances list.



14. Copy the public IPv4 Address and paste it in a new window followed by a colon and then the port number (4000).



We have successfully deployed a project from GitHub to EC2 by creating a new Security group and User Data.