

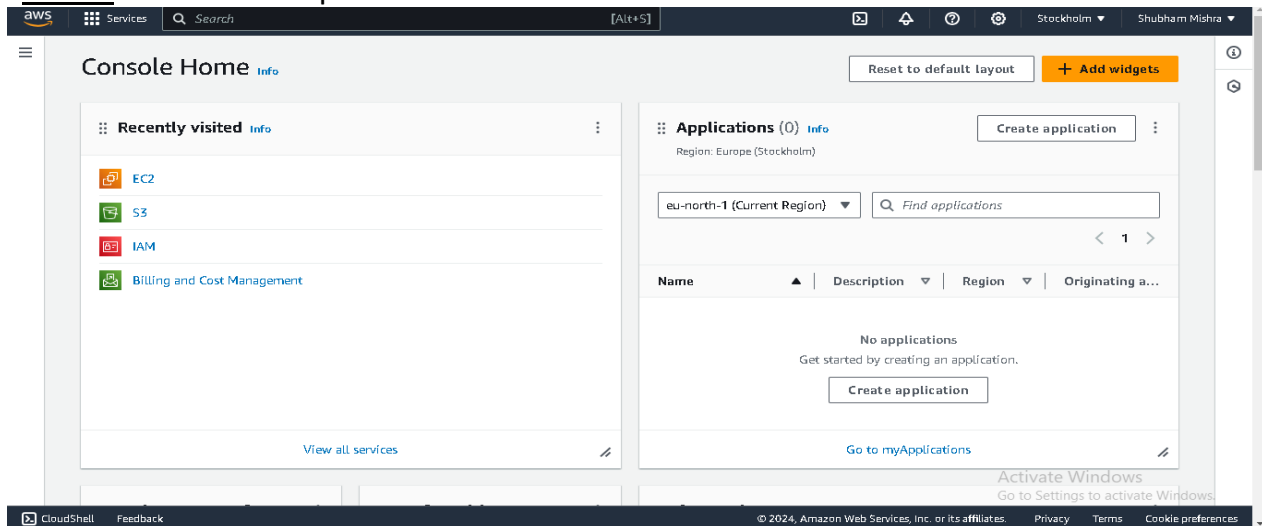
## ASSIGNMENT -> 10

### PROBLEM STATEMENT ->

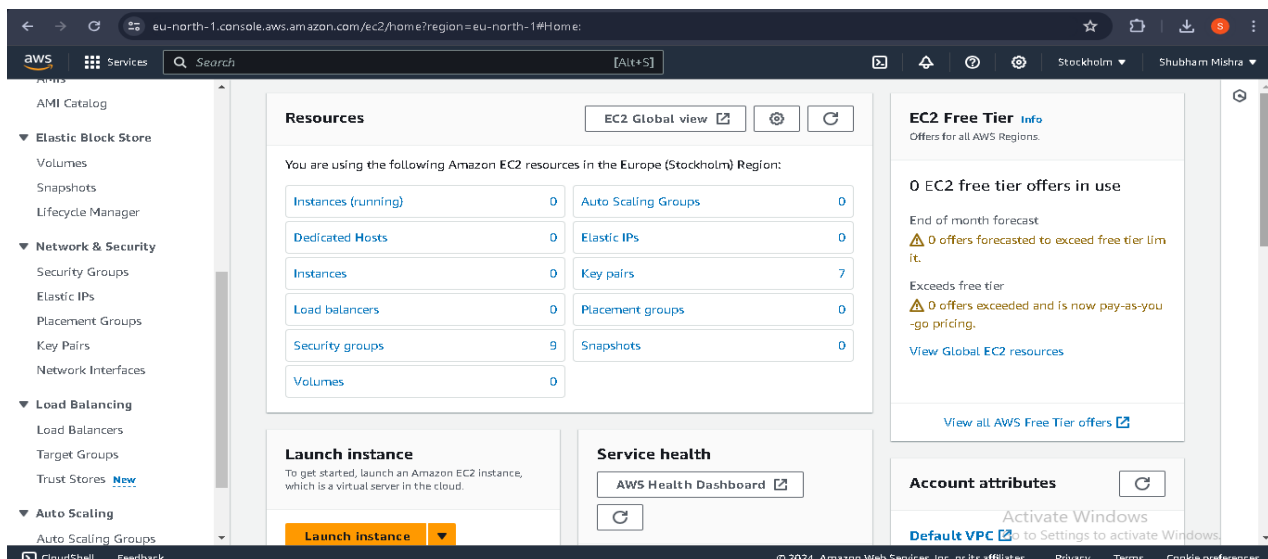
Deploy a project from GitHub to EC2 by creating a new security group and user data.

To Deploy the Project from GitHub to EC2 by creating a new Security Group ->

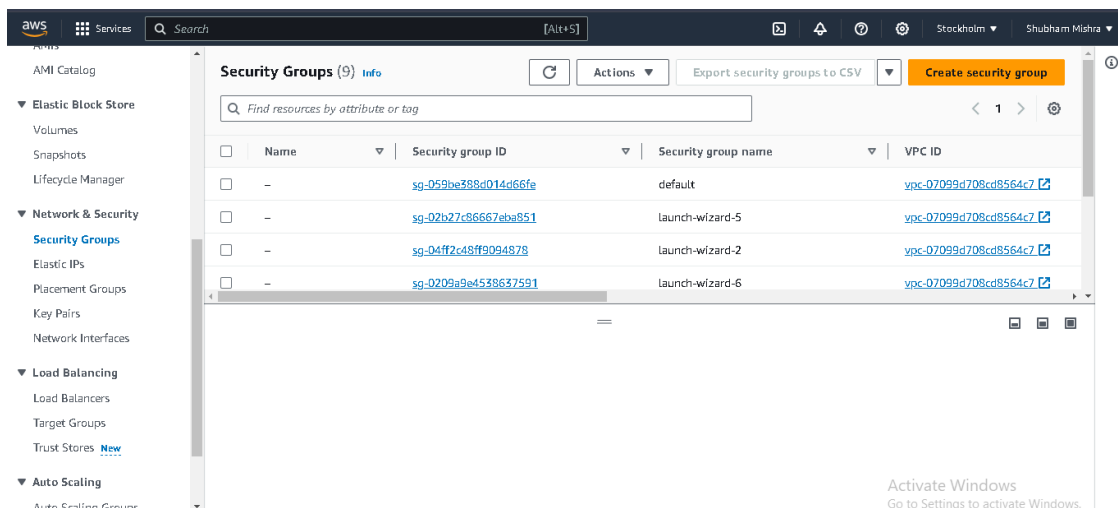
STEP 1-> Select EC2 option.



STEP 2-> Go to the Security Groups option.



STEP 3-> Click on Create Security Group.



**STEP 4->** Give a name and Description to the Security Group. Then click on Add Rule under the Inbound Rules tab.

**Create security group** [Info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

**Basic details**

Security group name [Info](#)  
Shubhamsecurity  
Name cannot be edited after creation.

Description [Info](#)  
Shubhamsecurity

VPC [Info](#)  
vpc-07099d708cd8564c7

**Inbound rules** [Info](#)

This security group has no inbound rules.

[Add rule](#)

Activate Windows  
Go to Settings to activate Windows.

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**STEP 5->** Add the following 4 rules. Give all the rules the source address of 0.0.0.0/0 & and Port range of 4000 to Custom TCP.

**Inbound rules** [Info](#)

Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>
SSH	TCP	22	Any... 0.0.0.0/0 X	<input type="text"/> <a href="#">Delete</a>
HTTP	TCP	80	Any... 0.0.0.0/0 X	<input type="text"/> <a href="#">Delete</a>
HTTPS	TCP	443	Any... 0.0.0.0/0 X	<input type="text"/> <a href="#">Delete</a>
Custom TCP	TCP	4000	Any... 0.0.0.0/0 X	<input type="text"/> <a href="#">Delete</a>

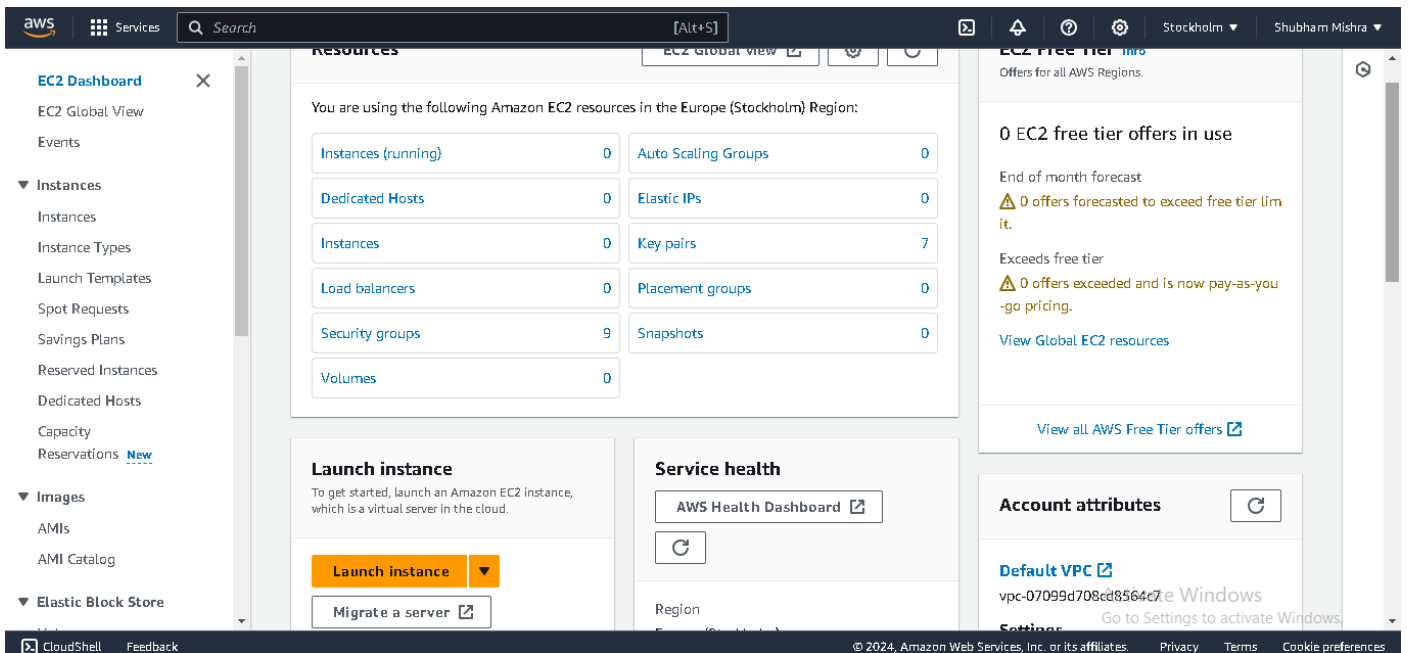
[Add rule](#)

Activate Windows  
Go to Settings to activate Windows.

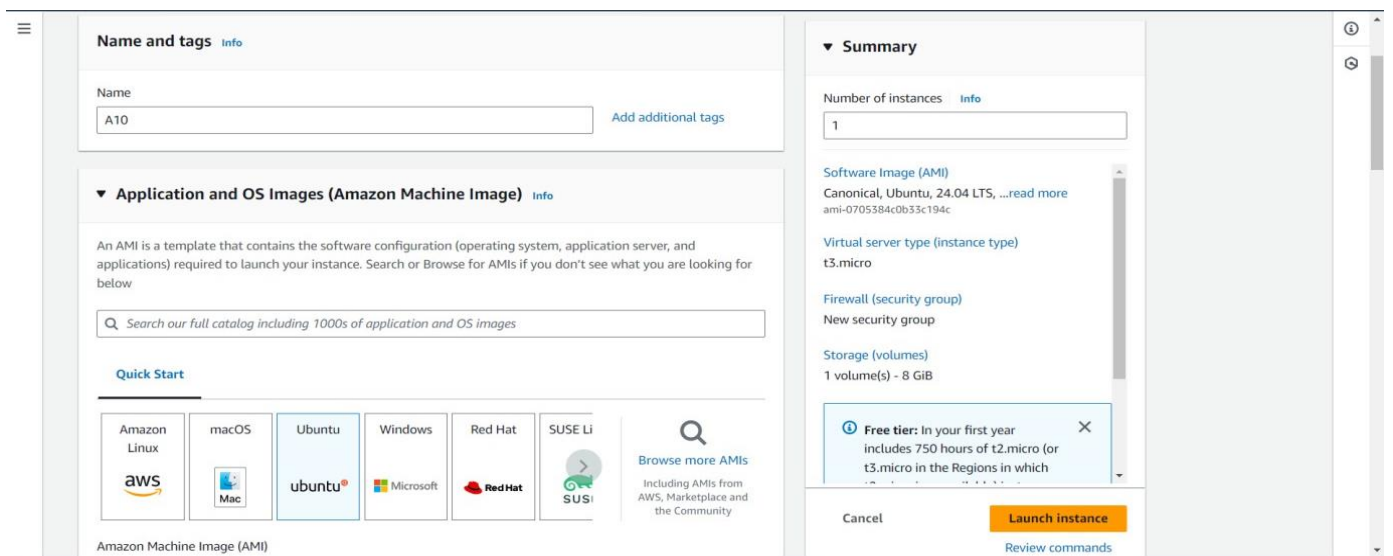
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**STEP 6->** Click on Create Security Group.

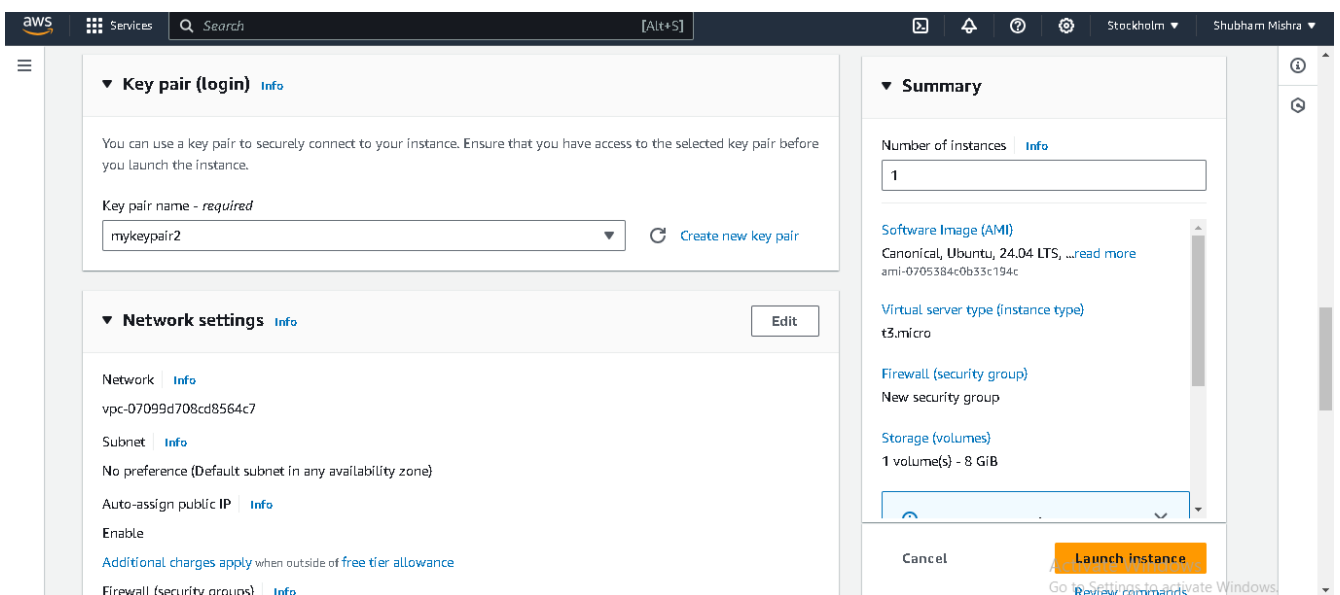
STEP 7-> Now click on “Launch Instance”.



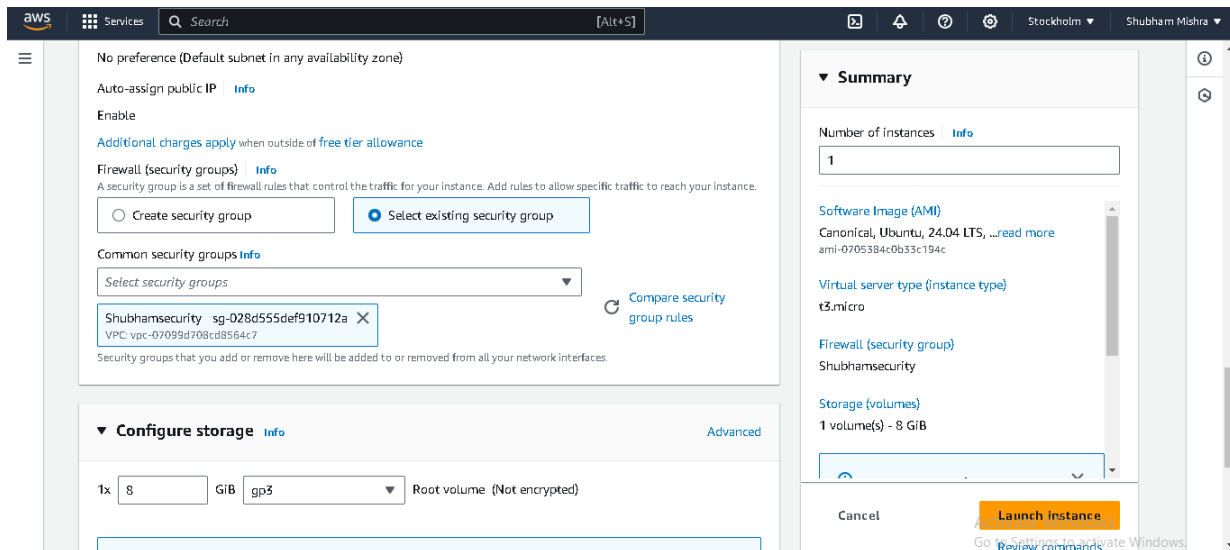
STEP 8-> Give a unique name to the instance and select Ubuntu.



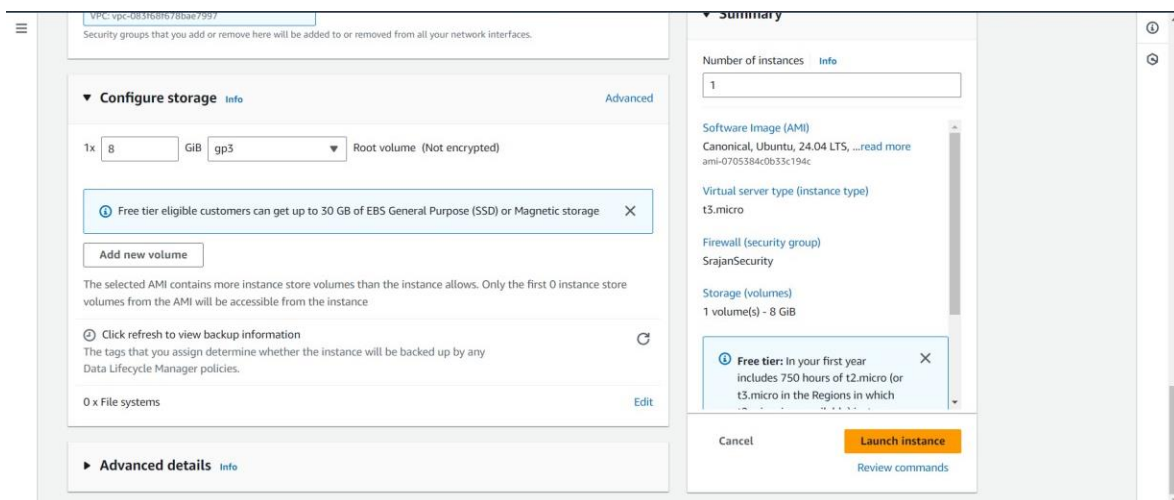
STEP 9-> Under key pair (login) select an existing key from the drop down menu or create a new key.



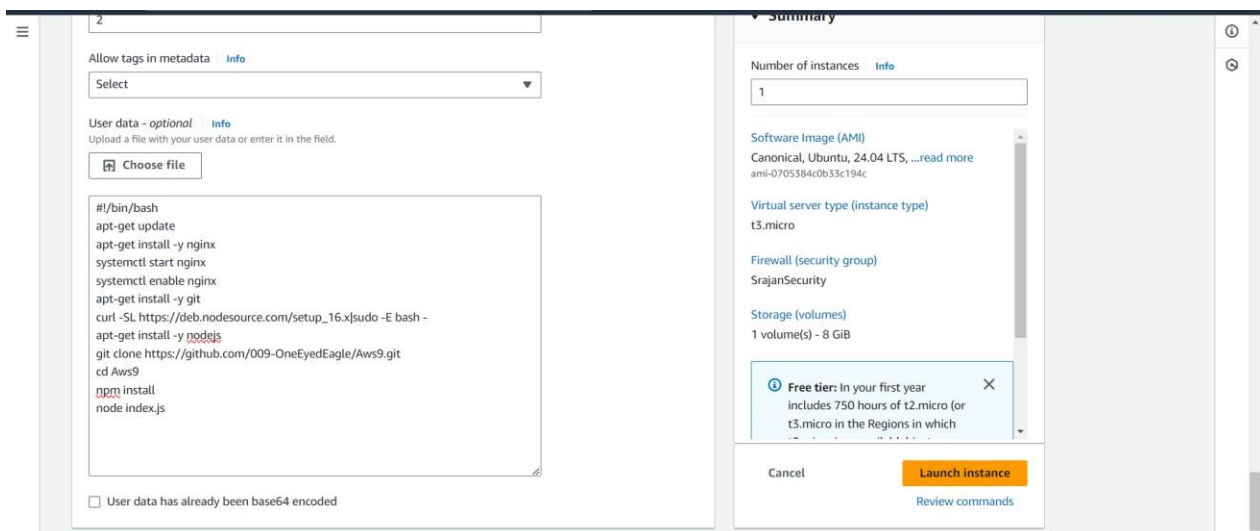
**STEP 10->** Select the Select Existing Security Group, then select the newly created security group.



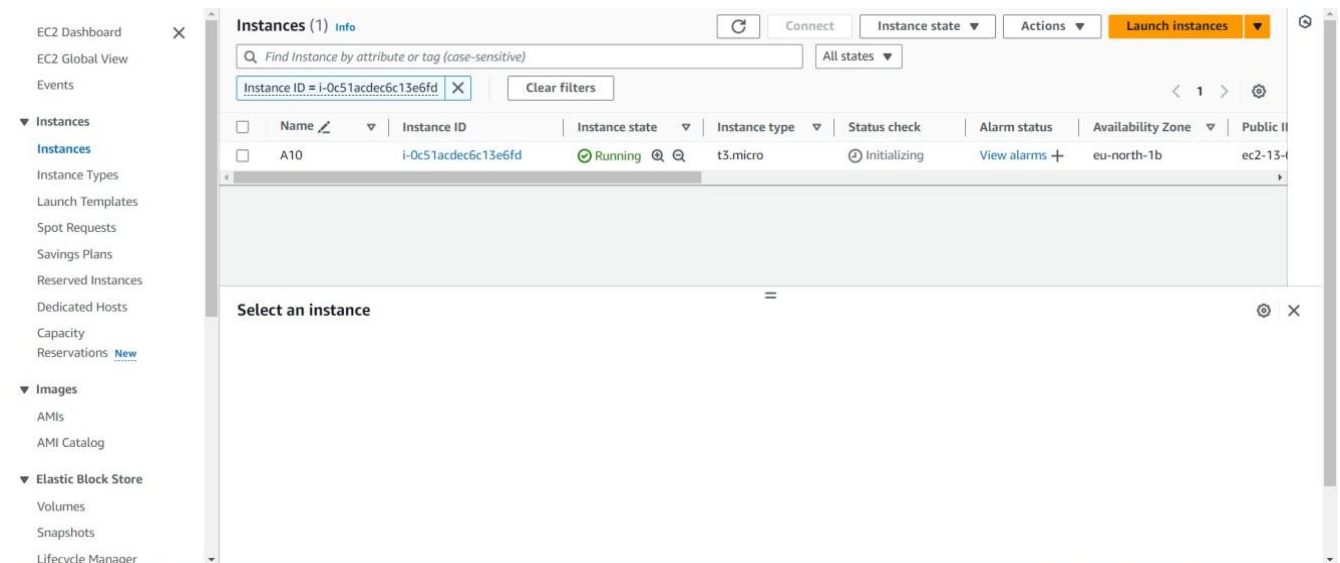
**STEP 11->** Expand the Advanced Details tab.



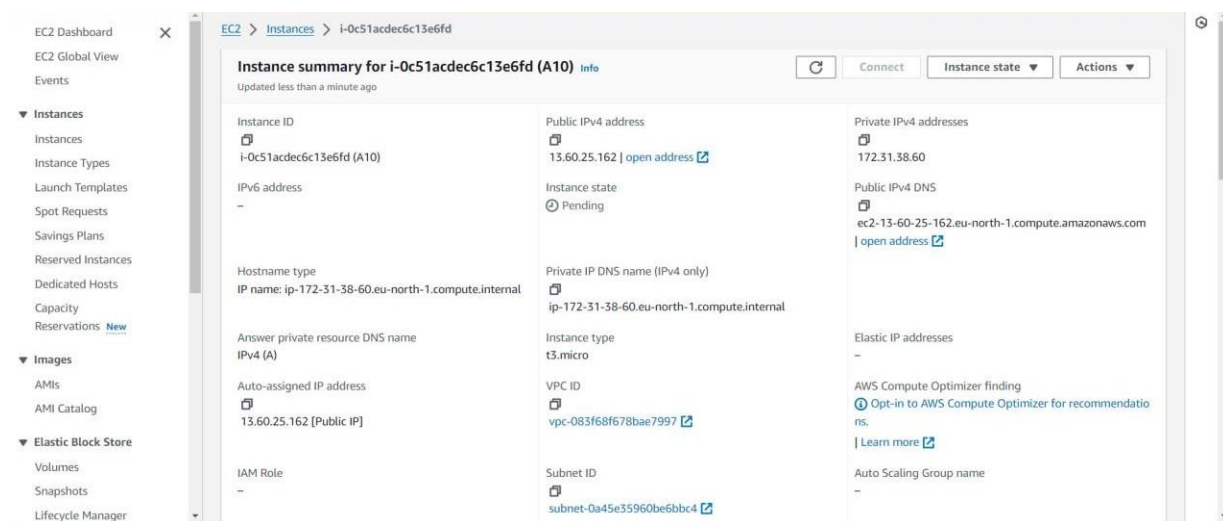
**STEP 12->** Scroll down to the bottom, in the bash console type the following commands. Then click on "Launch Instance".



**STEP 13->** Click on instance id to enter into the instance.



**STEP 14->** Copy the Public IPv4 Address.



**STEP 15->** Paste the IP-Address in a new Window. Nginx window will open.



## Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to [nginx.org](https://nginx.org).  
Commercial support is available at [nginx.com](https://nginx.com).

*Thank you for using nginx.*

**STEP 16->** The Nodejs file content will be visible. Now add “:4000” at the end of the IPv4 Address.



Hello World