### **PROJECT: AWS EC2**

Name: Vaishnavi Madhav Shinde

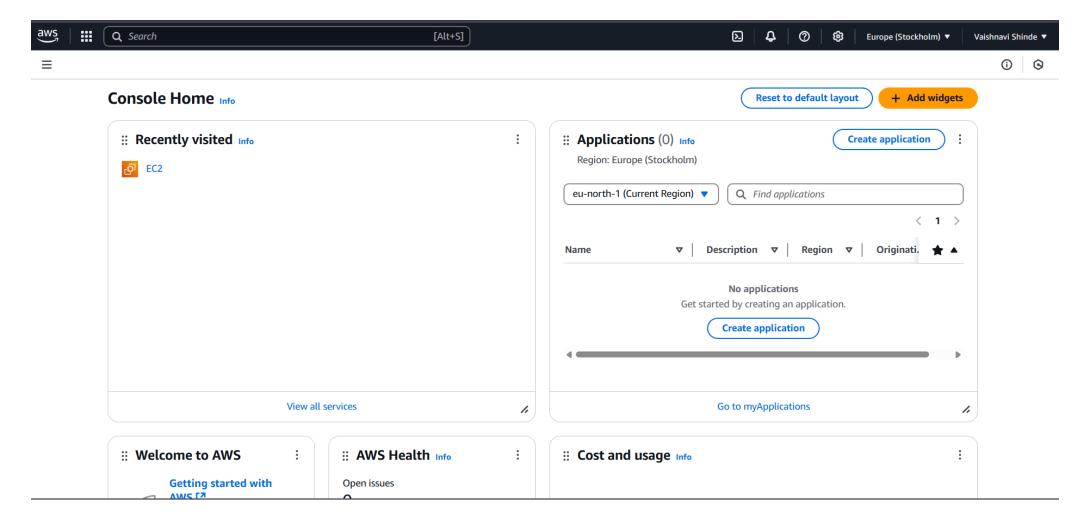
Roll No: MH-JM-24-07-0103

**Course: Cyber Security Specialist** 

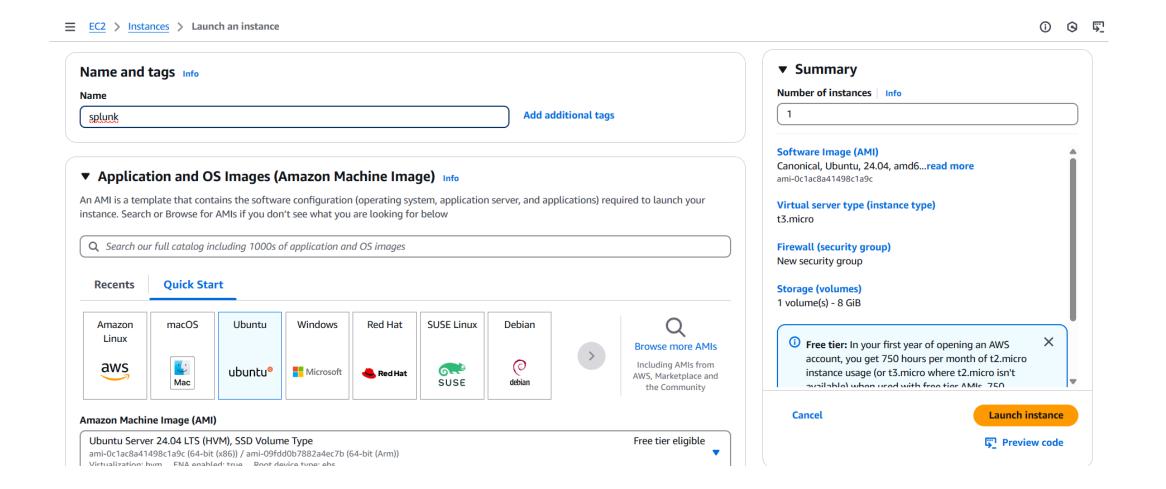
**Guided By: Deepyesh Sir.** 

#### **AWS EC2**

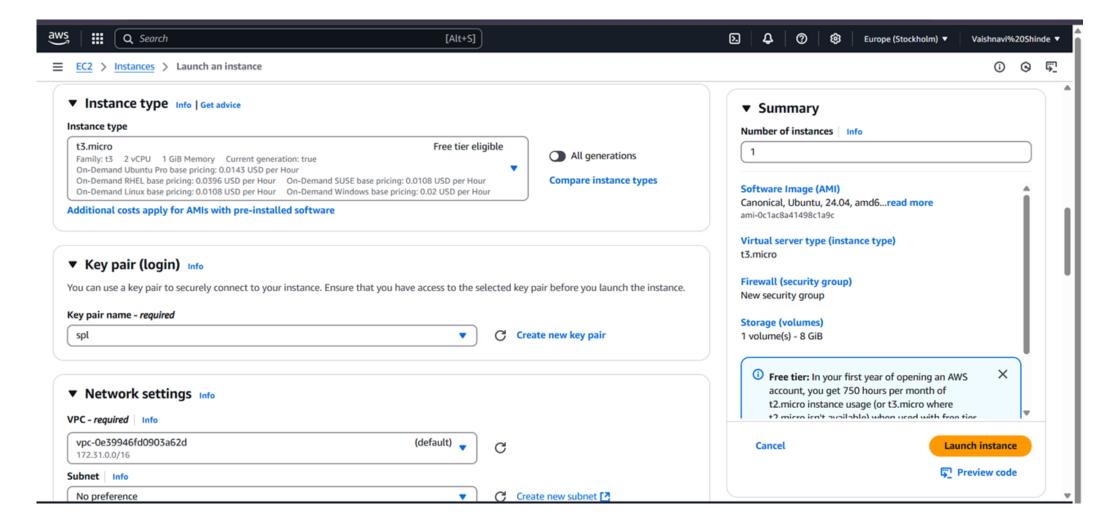
Logging into the AWS Management Console and navigating to EC2.



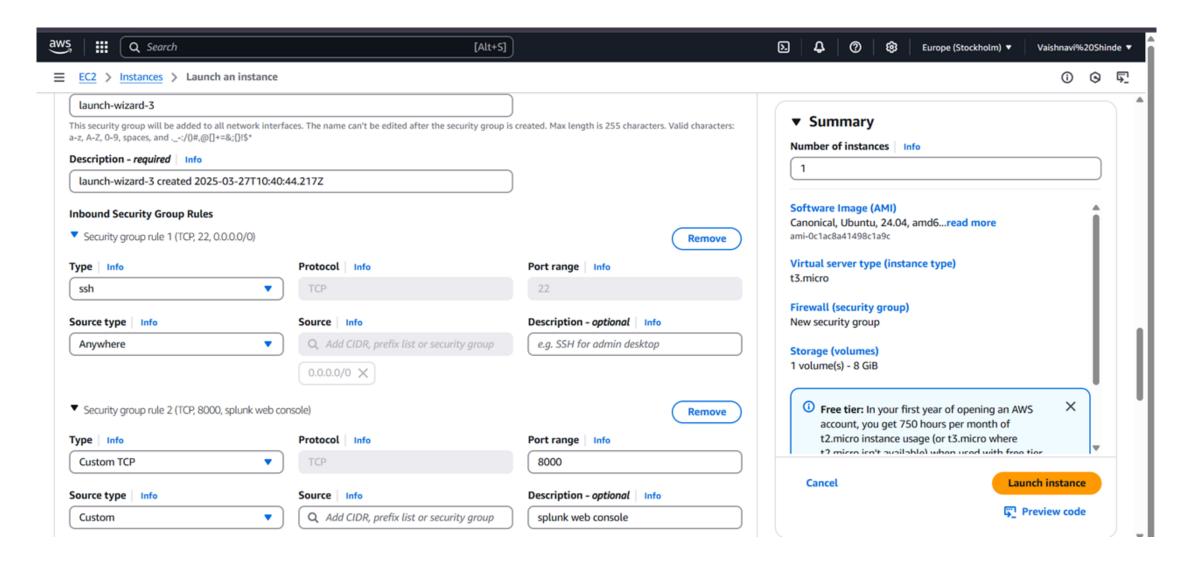
#### Selecting Ubuntu 22.04 LTS as the operating system



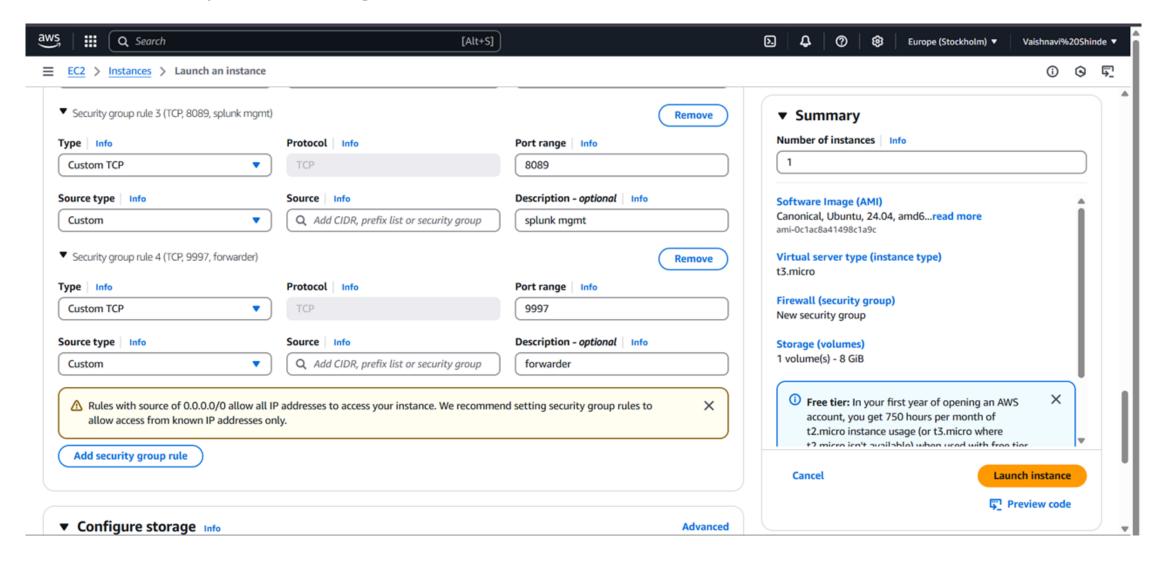
#### Choosing an instance type (t3.micro or higher) for better performance



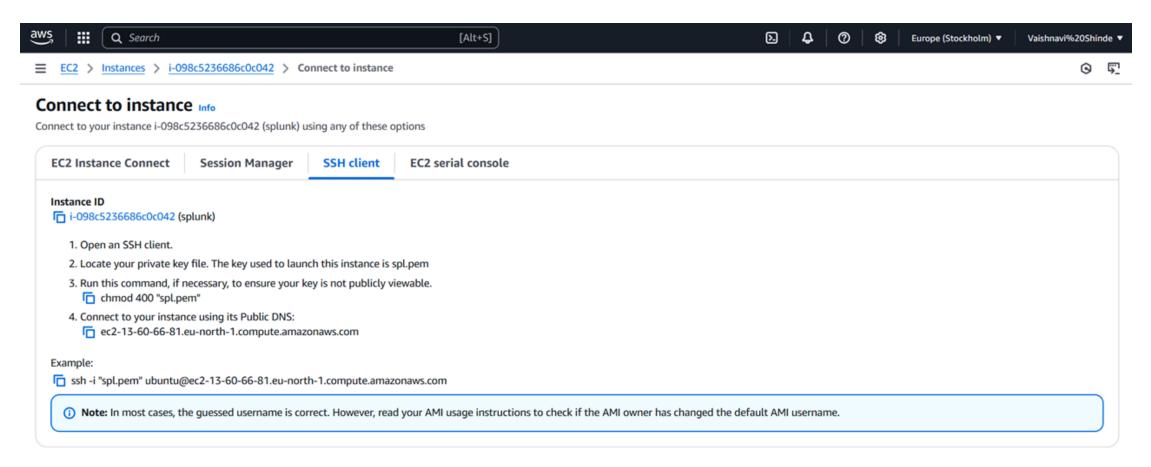
## Configuring security group rules to allow access to shh (22), splunk web (8000)



### Splunk management (8089), and forwarder (9997)



# Launching the instance and connecting via ssh



After downloading .pem file we have to open in kali linux and where there is .pem file is present we have to this following command on kali

#### > ssh -i your-key.pem ubuntu@your-aws-instance-ip

```
root⊗ kali) // /home/kali/Downloads
 # ssh -i "spl.pem" ubuntu@ec2-13-60-66-81.eu-north-1.compute.amazonaws.com
The authenticity of host 'ec2-13-60-66-81.eu-north-1.compute.amazonaws.com (13.60.66.81)' can't be established.
ED25519 key fingerprint is SHA256:jcuVEtaBCDN4jkzdtuIaqFjfXvl8HZkXQtuAkLic9nU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-13-60-66-81.eu-north-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1024-aws x86 64)
* Documentation: https://help.ubuntu.com
* Management:
                 https://landscape.canonical.com
* Support:
                 https://ubuntu.com/pro
System information as of Thu Mar 27 12:51:32 UTC 2025
 System load: 0.0
                                Temperature: -273.1 C
 Usage of /: 25.1% of 6.71GB Processes:
                                                      109
 Memory usage: 23%
                                Users logged in:
                                IPv4 address for ens5: 172.31.32.38
 Swap usage:
               0%
Expanded Security Maintenance for Applications is not enabled.
```

#### Download splunk on ubuntu for log collection and security analysis

>wget -O splunk-9.1.2-b6b9c818539-linux-2.6-amd64.deb

https://download.splunk.com/products/splunk/releases/9.1.2/linux/splunk-9.1.2-b6b9c8185839-linux-2.6-amd64.deb

>sudo dpkg -i splunk-9.1.2-b6b9c818539-linux-2.6-amd64.deb

```
root@ip-172-31-32-38:/home/ubuntu# wget -0 splunk-9.1.2-b6b9c8185839-linux-2.6-amd64.deb "https://download.splunk.com/products/splunk/releases/9.1.2/linux/splunk-
1.2-b6b9c8185839-linux-2.6-amd64.deb"
--2025-03-27 13:16:50-- https://download.splunk.com/products/splunk/releases/9.1.2/linux/splunk-9.1.2-b6b9c8185839-linux-2.6-amd64.deb
Resolving download.splunk.com (download.splunk.com)... 3.164.230.7, 3.164.230.29, 3.164.230.43, ...
Connecting to download.splunk.com (download.splunk.com)|3.164.230.7|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 462049960 (441M) [binary/octet-stream]
Saving to: 'splunk-9.1.2-b6b9c8185839-linux-2.6-amd64.deb'
splunk-9.1.2-b6b9c8185839-linux-2.6-amd6 100%[=
2025-03-27 13:16:53 (178 MB/s) - 'splunk-9.1.2-b6b9c8185839-linux-2.6-amd64.deb' saved [462049960/462049960]
root@ip-172-31-32-38:/home/ubuntu# sudo dpkg -i splunk-9.1.2-b6b9c8185839-linux-2.6-amd64.deb
Selecting previously unselected package splunk.
(Reading database ... 70560 files and directories currently installed.)
Preparing to unpack splunk-9.1.2-b6b9c8185839-linux-2.6-amd64.deb ...
Unpacking splunk (9.1.2) ...
Setting up splunk (9.1.2) ...
complete
root@ip-172-31-32-38:/home/ubuntu# sudo /opt/splunk/bin/splunk enable boot-start
SPLUNK GENERAL TERMS
Last Updated: August 12, 2021
These Splunk General Terms ("General Terms") between Splunk Inc., a Delaware
corporation, with its principal place of business at 270 Brannan Street, San
```

#### > /opt/splunk/bin/splunk start

```
root@ip-172-31-32-38:/home/ubuntu# /opt/splunk/bin/splunk start

Splunk> All batbelt. No tights.

Checking prerequisites...
Checking http port [8000]: open
Checking mgmt port [8089]: open
Checking appserver port [127.0.0.1:8065]: open
Checking kystore port [8191]: open
```

Once the setup is complete we see the splunk is running on http://127.0.0.1:8000

In the Instance summary we will get the Auto-assigned IP address[pubic ip]

Now we can login through that **public\_ip with port number [8000]** 

