

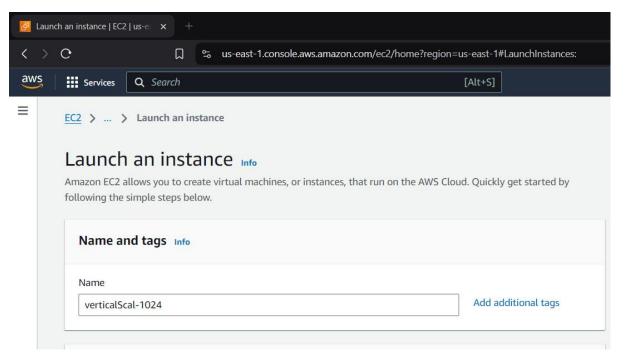
**Subject: Infrastructure Orchestration (P)** 

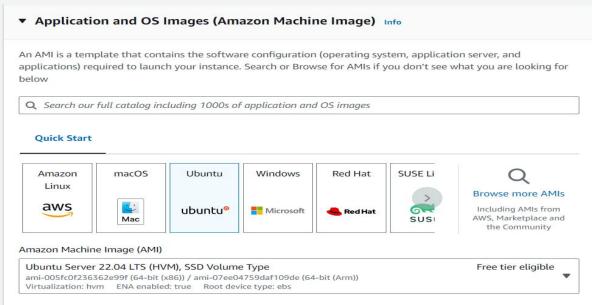
Name of the Student: Shrushti Krishna Shrivastav PRN: 20220801024

Title of Practical: Vertical Scaling: Upgrading EC2 Instance Types for

**Better Performance** 

#### STEP1: Login and launch one ec2 instance





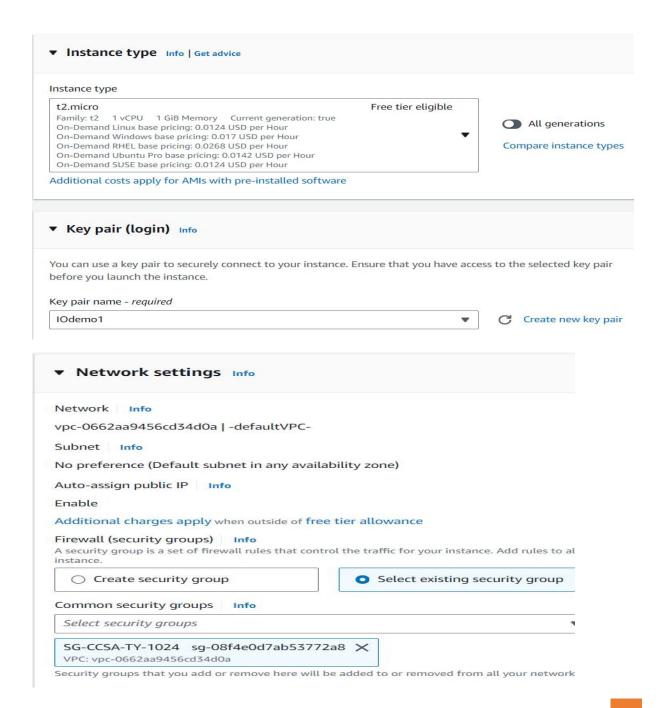


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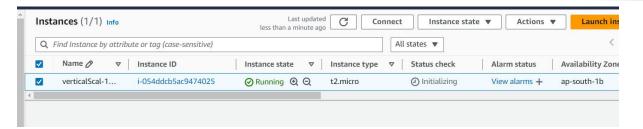


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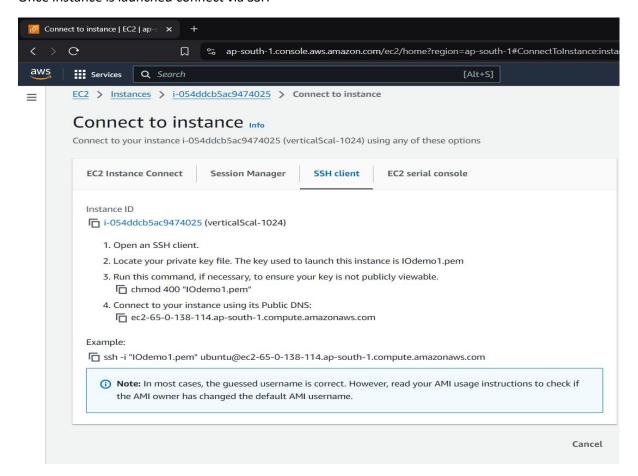
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#### Once instance is launched connect via SSH





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#### STEP2: connect via SSH

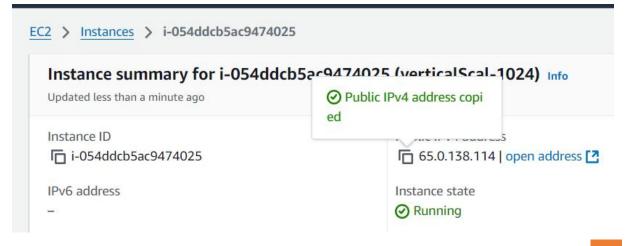
Go to the path where your keypair is downloaded

```
C:\Users\shrushti\OneDrive\Desktop>
C:\Users\shrushti\OneDrive\Desktop>ssh -i "IOdemo1.pem" ubuntu@ec2-65-0-138-114.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-65-0-138-114.ap-south-1.compute.amazonaws.com (65.0.138.114)' can't be established.
ED25519 key fingerprint is SHA256:g0U2Qb3Xvw87qDD5AI0tXijDLwbyi7Gk/TPeGaiGlPc.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-65-0-138-114.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 6.8.0-1015-aws x86_64)
```

### Now update and then install apache2 server

```
ubuntu@ip-172-31-10-188:~$
ubuntu@ip-172-31-10-188:~$ sudo apt-get update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
ubuntu@ip-172-31-10-188:~$
ubuntu@ip-172-31-10-188:~$
sudo apt-get install apache2 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

Check if apache2 is installed: go to instance and paste public ipv4 address on browser--





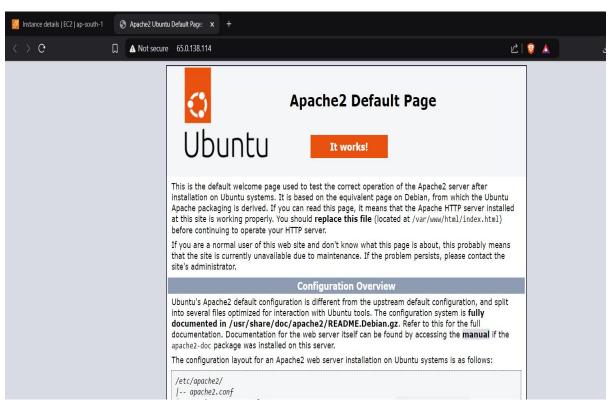
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Ensure its http only (in Security Group we gave permission for http only and not hhtps)



You can also check through cmd via command: systemctl status apache2



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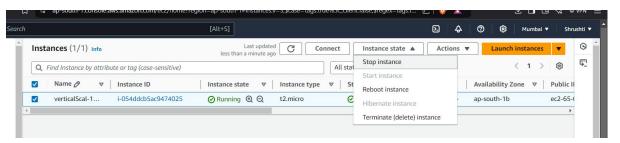
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#### STEP3: create one file

ubuntu@ip-172-31-10-188:~\$ touch file1.txt ubuntu@ip-172-31-10-188:~\$ ls file1.txt ubuntu@ip-172-31-10-188:~\$

### STEP4: change the instance type from t2.micro to t2.medium

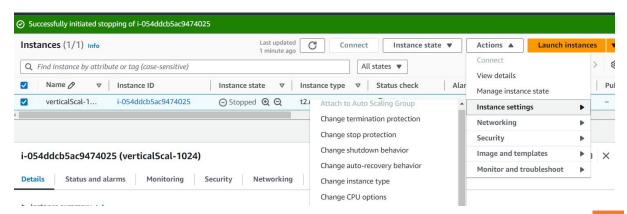
First stop the instance to change the instance type



#### Cmd msg once instance is stopped

ubuntu@ip-172-31-10-188:~\$ Connection to ec2-65-0-138-114.ap-south-1.compute.amazonaws.com closed by remote host. Connection to ec2-65-0-138-114.ap-south-1.compute.amazonaws.com closed.

Select instance--action--instance setting--change instance type



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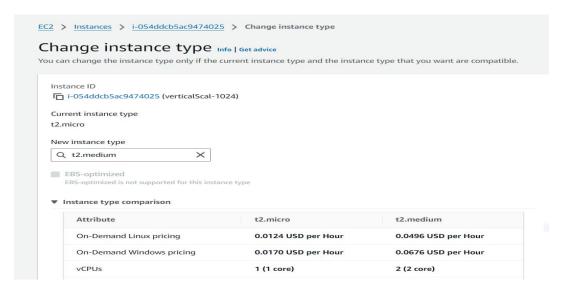
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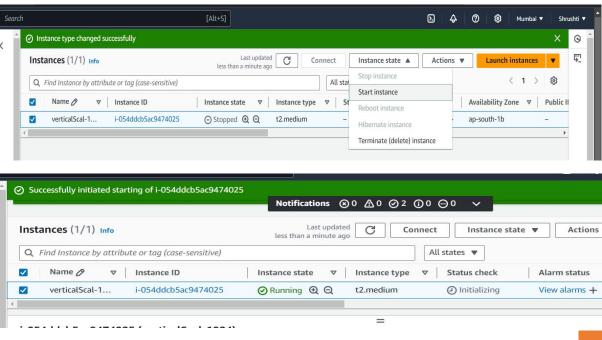
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#### Select new instance as t3.micro



#### Save changes.

Now start instance and ensure instance type is changed



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#### Again connect via ssh--

List the files to ensure your data is still safe and not lost.

```
Last login: Wed Nov 20 10:43:59 2024 from 152.57.114.123
ubuntu@ip-172-31-10-188:~$
ubuntu@ip-172-31-10-188:~$
ubuntu@ip-172-31-10-188:~$
ubuntu@ip-172-31-10-188:~$
ubuntu@ip-172-31-10-188:~$
file1.txt
ubuntu@ip-172-31-10-188:~$
```

Check if apache2 is also running.

