

Aim- To make a EC2 Machine in AWS

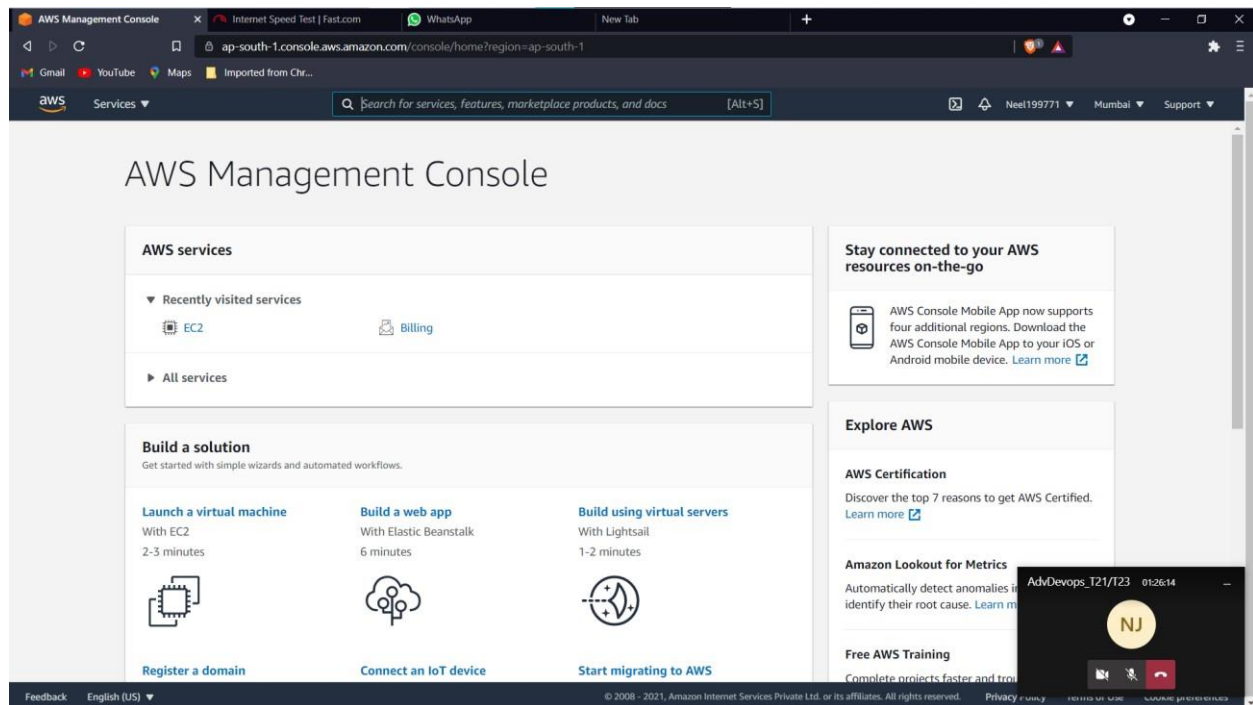
THEORY-

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud. It is designed to make web-scale cloud computing easier for developers.

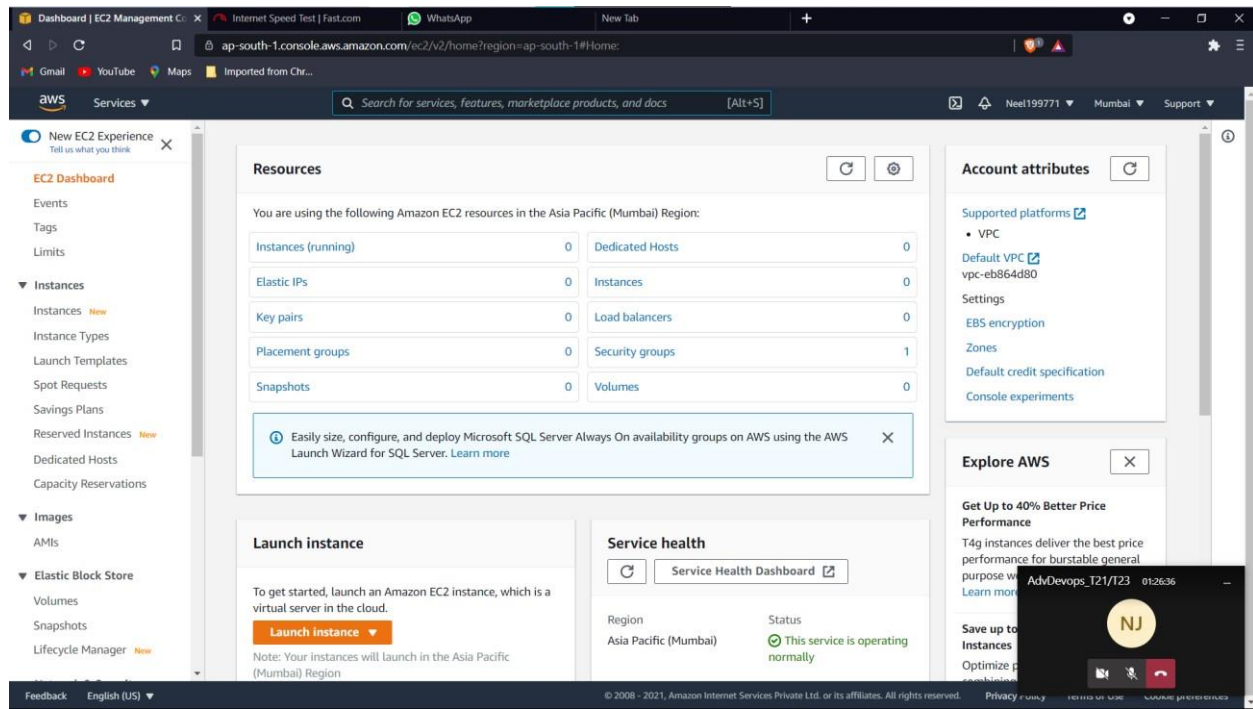
STEPS-

LOGIN TO AWS ACCOUNT, THEN

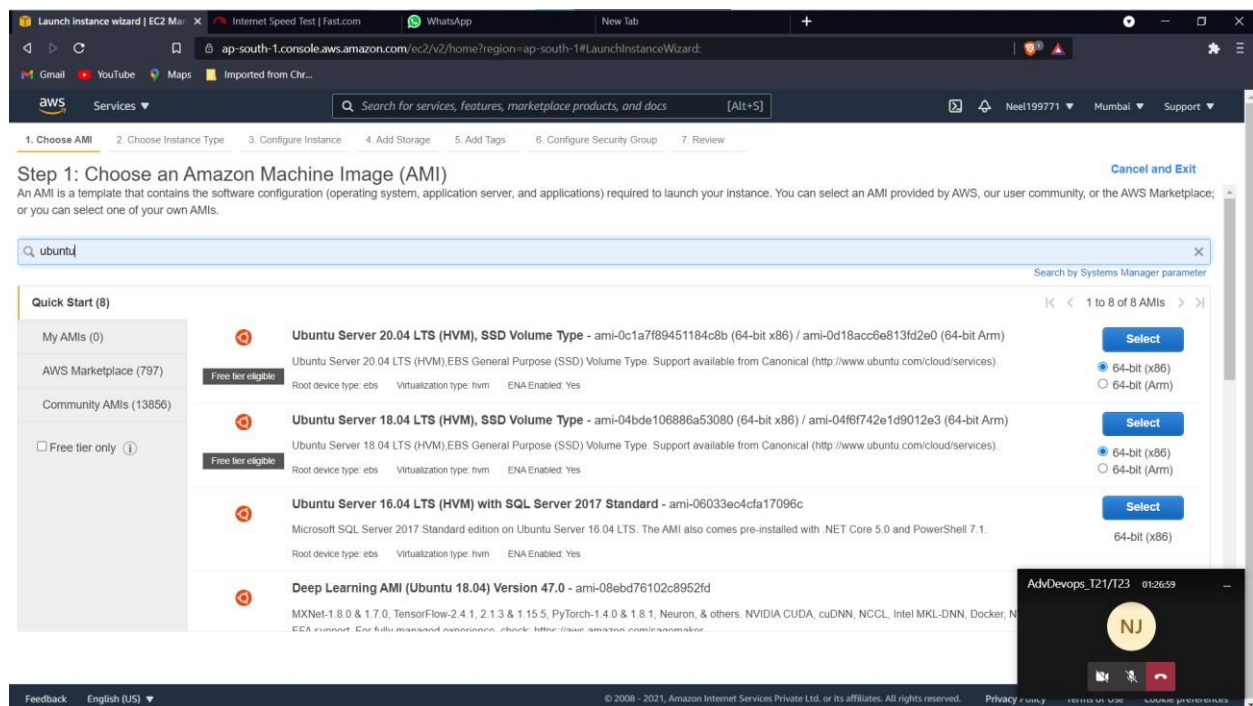
SEARCH EC2.



NOW CLICK ON LAUNCH / CREATE NEW INSTANCES.



Choose any machine you want to create here I am creating UBUNTU(free tier).



Click on T2 micro (free tier one)

Launch instance wizard | EC2 Ma x | Internet Speed Test | Fast.com | WhatsApp | New Tab

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard

Services Search for services, features, marketplace products, and docs [Alt+S]

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Currently selected: t2.micro (~ ECUs, 1 vCPUs, 2.5 GHz, ~, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

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Click on NEXT, then Again Click Next.

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ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances 1 Launch into Auto Scaling Group

Purchasing option ☐ Request Spot instances

Network vpc-e864d80 (default) Create new VPC

Subnet No preference (default subnet in any Availability Zone) Create new subnet

Auto-assign Public IP Use subnet setting (Enable)

Placement group ☐ Add instance to placement group

Capacity Reservation Open

Domain join directory No directory Create new directory

IAM role None Create new IAM role

Shutdown behavior Stop

Stop - Hibernate behavior ☐ Enable hibernation as an additional stop behavior

Enable termination protection ☐ Protect against accidental termination

Monitoring ☐ Enable CloudWatch detailed monitoring

Cancel Previous **Review and Launch** Next: Add Storage

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THEN CREATE A KEY PAIR BY ANY NAME AND DOWNLOAD IT. THEN CLICK NEXT

Now add security group ALL TRAFFIC ,
PROTOCOL – ALL,
SOURCE- ANYWHERE.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group
☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
All traffic	All	0 - 65535	Anywhere 0.0.0.0/0, ::0	e.g. SSH for Admin Desktop

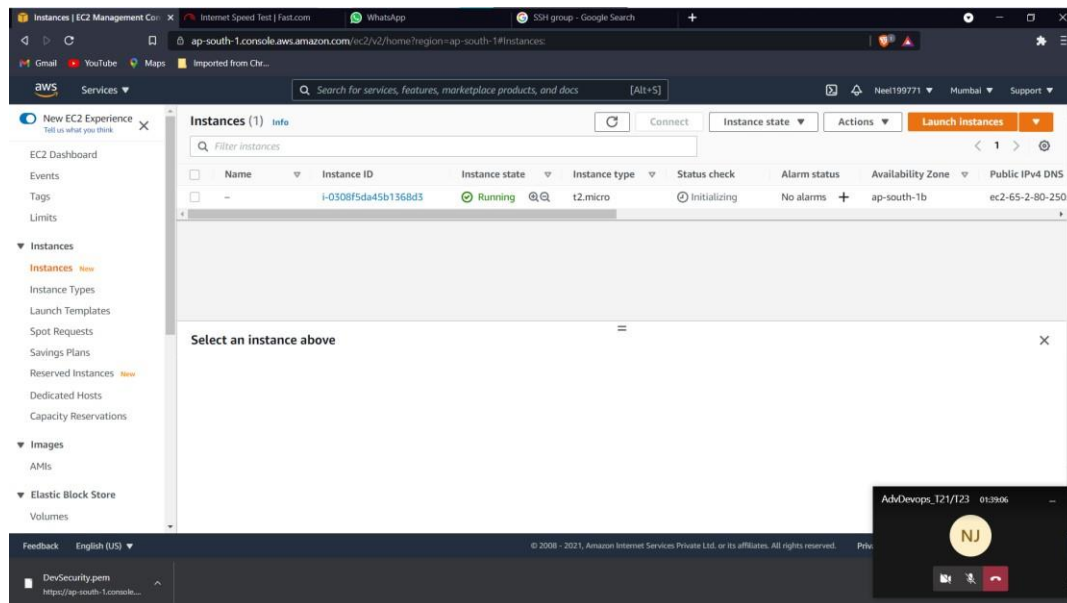
Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

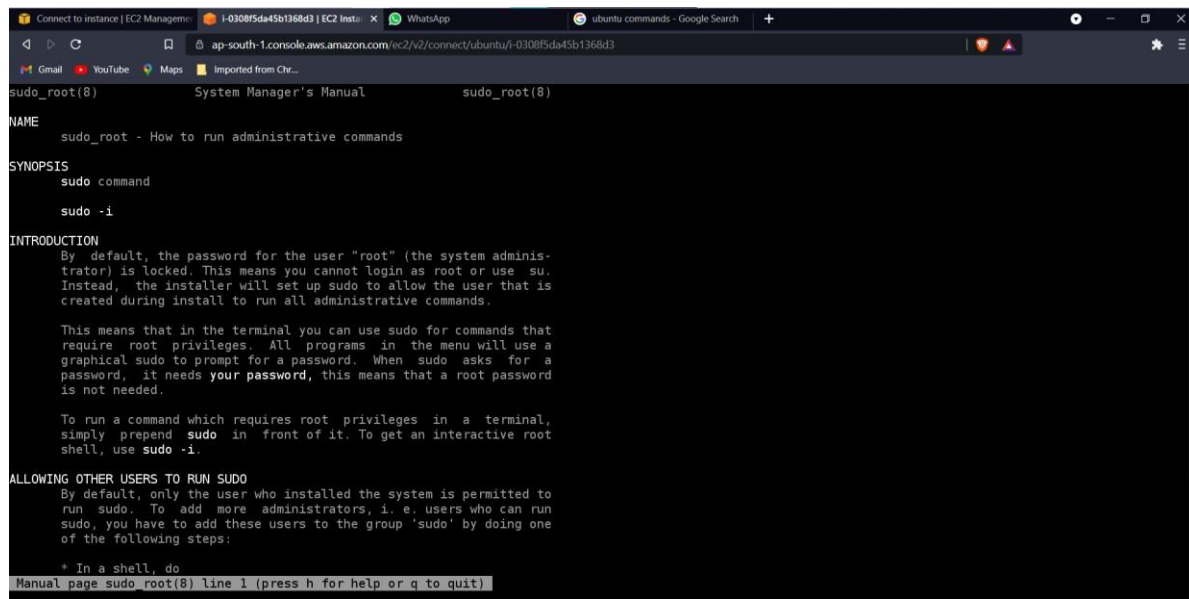
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NOW WAIT TILL THE STATUS CHECK IS 2/2 and Instance is running.

Once Check is complete click on launch instances.



FOLLOW SOME BASIC LINUX COMMANDS AS SHOWN BELOW-



```
sudo_root(8)      System Manager's Manual      sudo_root(8)

NAME
  sudo_root - How to run administrative commands

SYNOPSIS
  sudo command

  sudo -i

INTRODUCTION
  By default, the password for the user "root" (the system administrator) is locked. This means you cannot login as root or use su. Instead, the installer will set up sudo to allow the user that is created during install to run all administrative commands.

  This means that in the terminal you can use sudo for commands that require root privileges. All programs in the menu will use a graphical sudo to prompt for a password. When sudo asks for a password, it needs your password, this means that a root password is not needed.

  To run a command which requires root privileges in a terminal, simply prepend sudo in front of it. To get an interactive root shell, use sudo -i.

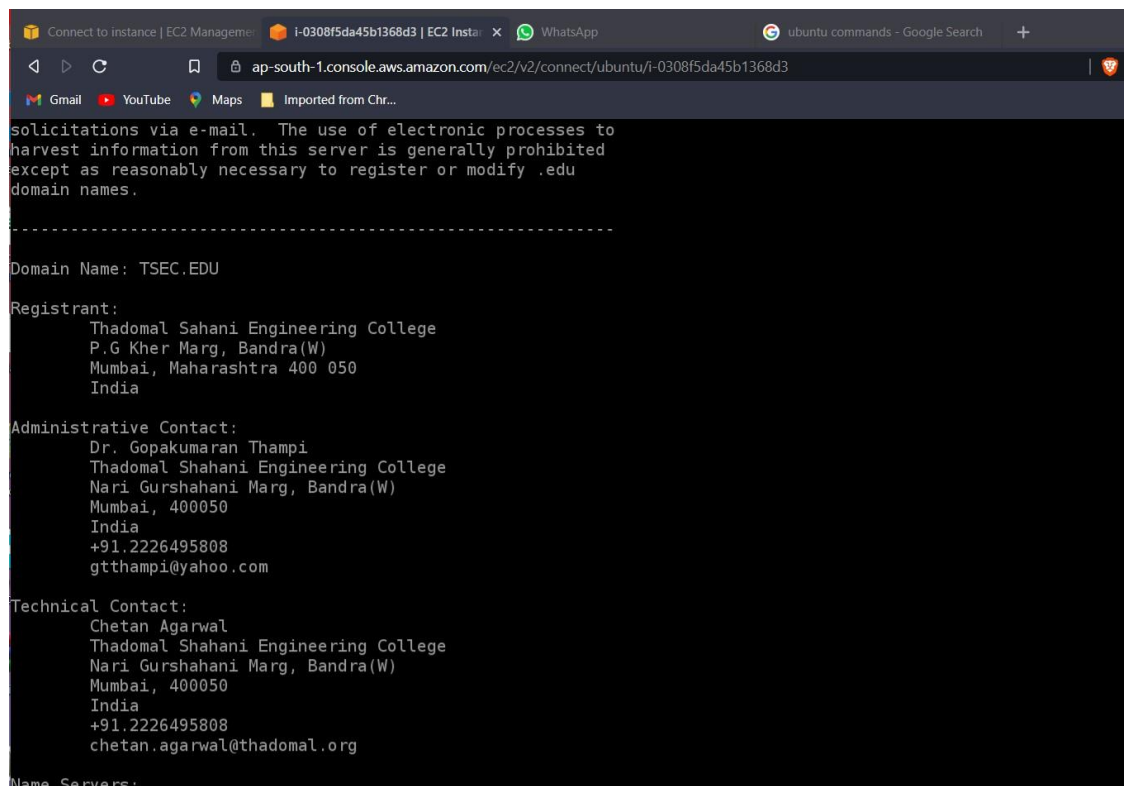
ALLOWING OTHER USERS TO RUN SUDO
  By default, only the user who installed the system is permitted to run sudo. To add more administrators, i. e. users who can run sudo, you have to add these users to the group 'sudo' by doing one of the following steps:

  * In a shell, do

Manual page sudo_root(8) line 1 (press h for help or q to quit)
```

i-0308f5da45b1368d3

Public IPs: 65.2.80.250 Private IPs: 172.31.8.68



```
solicitations via e-mail. The use of electronic processes to
harvest information from this server is generally prohibited
except as reasonably necessary to register or modify .edu
domain names.

-----
Domain Name: TSEC.EDU
Registrant:
  Thadomal Sahani Engineering College
  P.G Kher Marg, Bandra(W)
  Mumbai, Maharashtra 400 050
  India
Administrative Contact:
  Dr. Gopakumaran Thampi
  Thadomal Shahani Engineering College
  Nari Gurshahani Marg, Bandra(W)
  Mumbai, 400050
  India
  +91.2226495808
  gtthampi@yahoo.com
Technical Contact:
  Chetan Agarwal
  Thadomal Shahani Engineering College
  Nari Gurshahani Marg, Bandra(W)
  Mumbai, 400050
  India
  +91.2226495808
  chetan.agarwal@thadomal.org
Name Servers:
```

CONCLUSION – HENCE LEARNED AND IMPLEMENTED THE STEPS TO CREATE AN EC2 MACHINE.