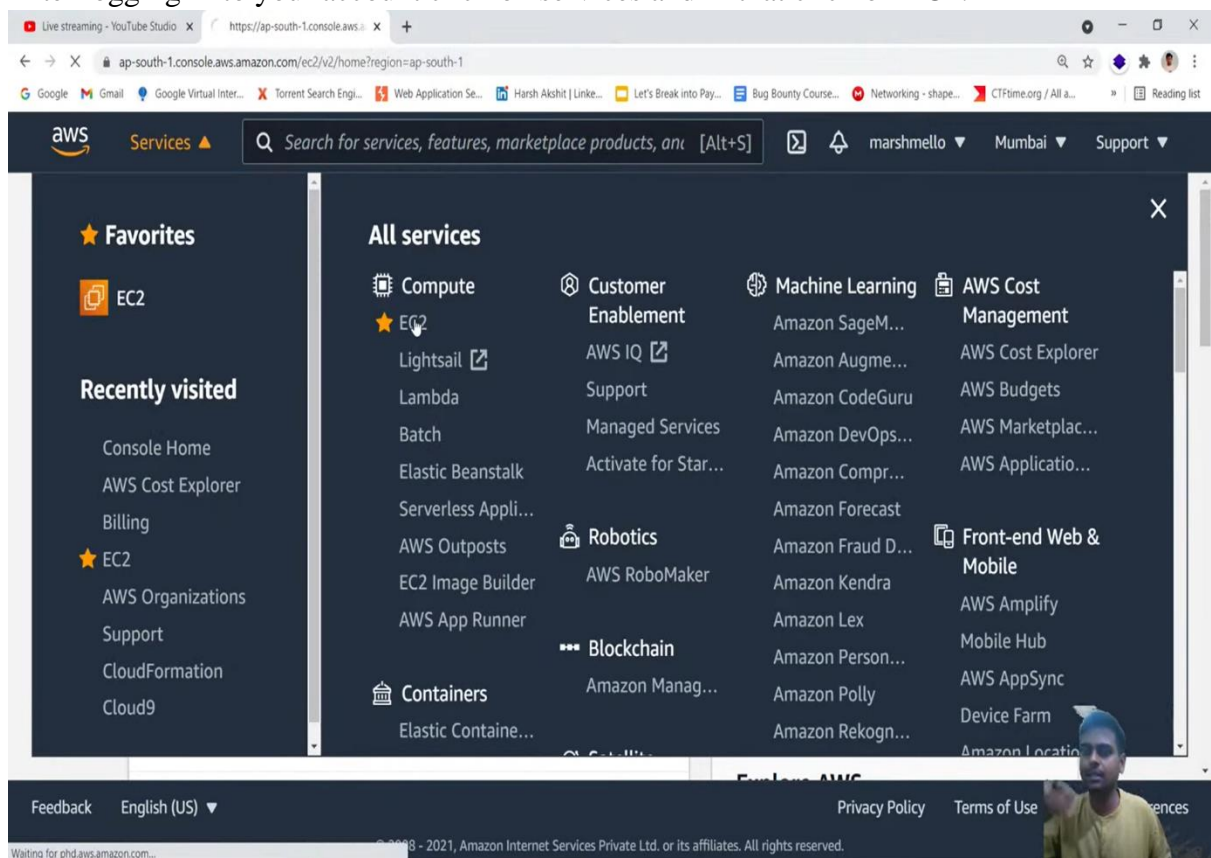


Creating Instance in AWS

I was having RUPAY debit cards at home which are not getting accepted due to which I was unable to create AWS account. But I understood how to create an instance. So, I am just creating the documentation.

Steps to create linux instance in aws:

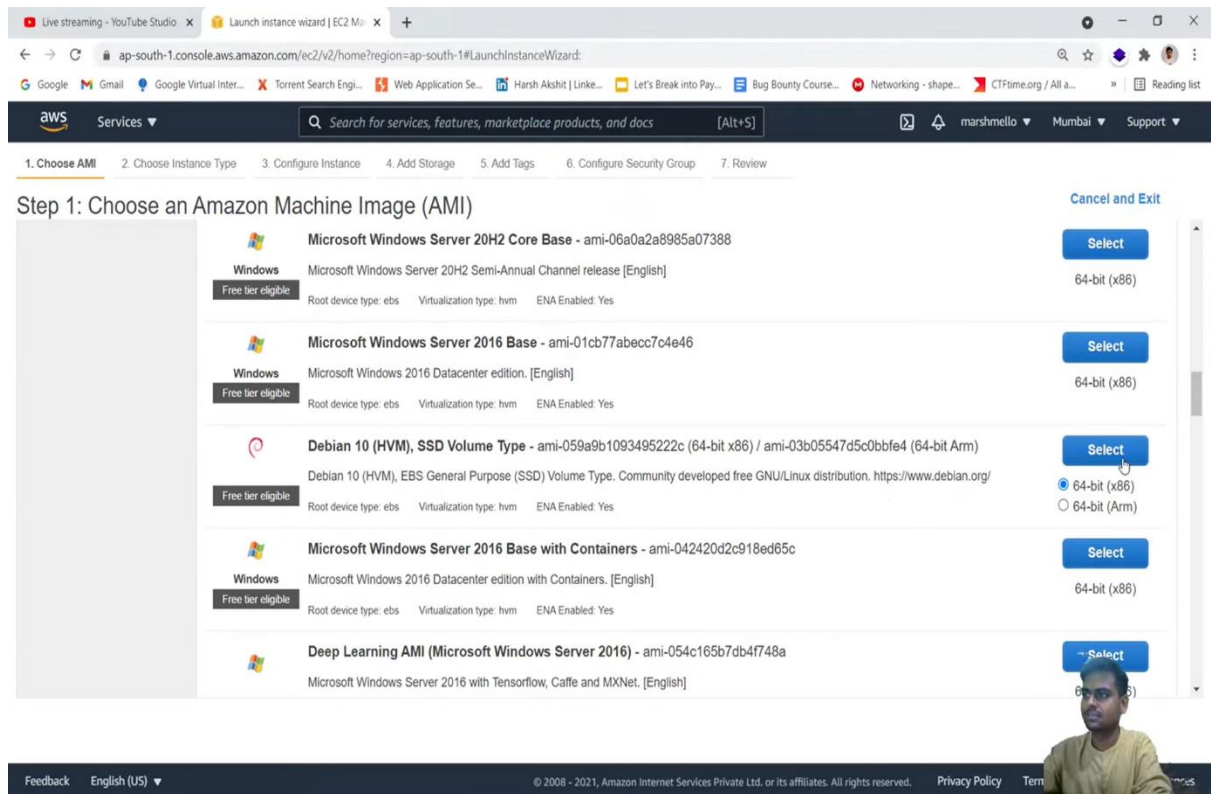
1. Firstly, create an AWS account on this website - <https://aws.amazon.com/>
2. After logging in to your account click on services and in that click on EC2.



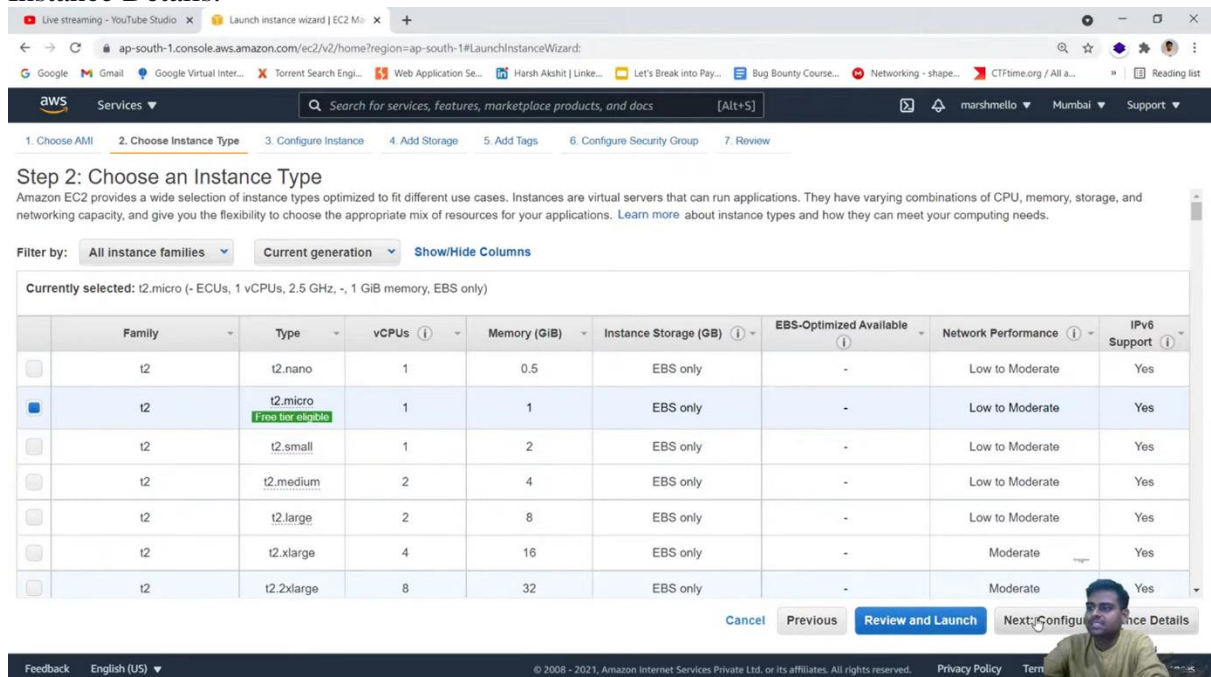
OR

Open the Amazon EC2 console at <https://console.aws.amazon.com/ec2/>.

3. From the console dashboard, choose **Launch Instance**.
4. The **Choose an Amazon Machine Image (AMI)** page displays a list of basic configurations, called Amazon Machine Images (AMIs), that serve as templates for your instance. Select an HVM version of Debian 10. Notice that these AMIs are marked "Free tier eligible."



- On the **Choose an Instance Type** page, you can select the hardware configuration of your instance. Select the **t2.micro** instance type, which is selected by default. The **t2.micro** instance type is eligible for the free tier. Then click on Next: Configure Instance Details.



- Since we want only one instance keep the default configuration don't change anything. Then click on Next: Add Storage.

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 [Launch into Auto Scaling Group](#)

Purchasing option ☐ Request Spot instances

Network [Create new VPC](#)

Subnet [Create new subnet](#)

Auto-assign Public IP

Placement group ☐ Add instance to placement group

Capacity Reservation

Domain join directory [Create new directory](#)

IAM role [Create new IAM role](#)

Shutdown behavior

[Cancel](#) [Previous](#) [Review and Launch](#) [Add Storage](#)

- Now in add storage by default it has 8GiB size, for free tier we can get up to 30GiB of EBS General Purpose(SSD). For now, lets keep it for 21GiB. Also we can encrypt it using KMS key aliases.

Step 4: Add Storage
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-05fa286bcd599e941	21	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

[Add New Volume](#)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

[Cancel](#) [Previous](#) [Review and Launch](#) [Add Tags](#)

Then click on Next: Add Tags.

- Now on Add Tag page, click on Add Tag button. Then give key and value and click on Next: Configure Security Group.

Live streaming - YouTube Studio x Launch instance wizard | EC2 M x +

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]

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

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances	Volumes	Network Interfaces
test	testserver	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

Cancel Previous **Review and Launch** Next: Configure Security Group

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9. Now in Configure Security Group page keep everything as default and click on Add Rule button to add HTTP and HTTPS and then click on Review and Launch button.

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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]

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: launch-wizard-3

Description: launch-wizard-3 created 2021-07-31T20:39:45.610+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0, ::/0	e.g. SSH for Admin Desktop
HTTPS	TCP	443	Custom 0.0.0.0, ::/0	e.g. SSH for Admin Desktop

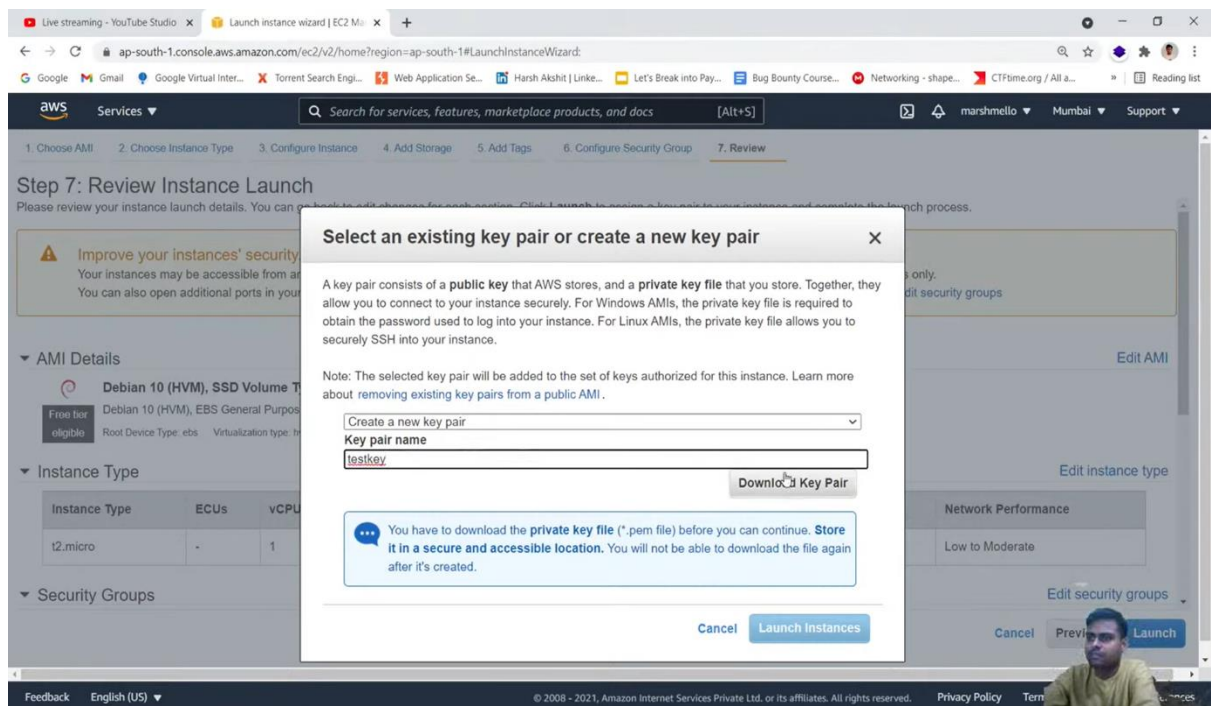
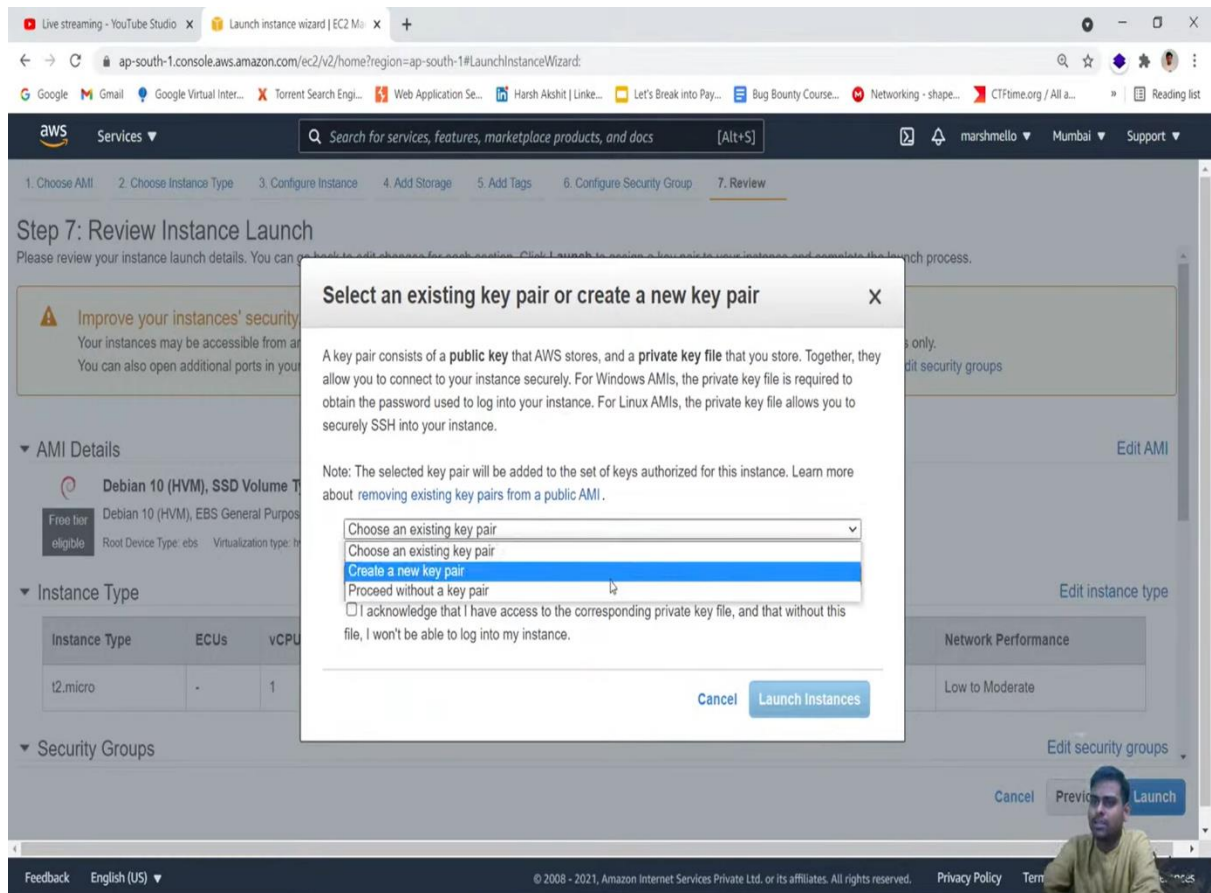
Add Rule

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.

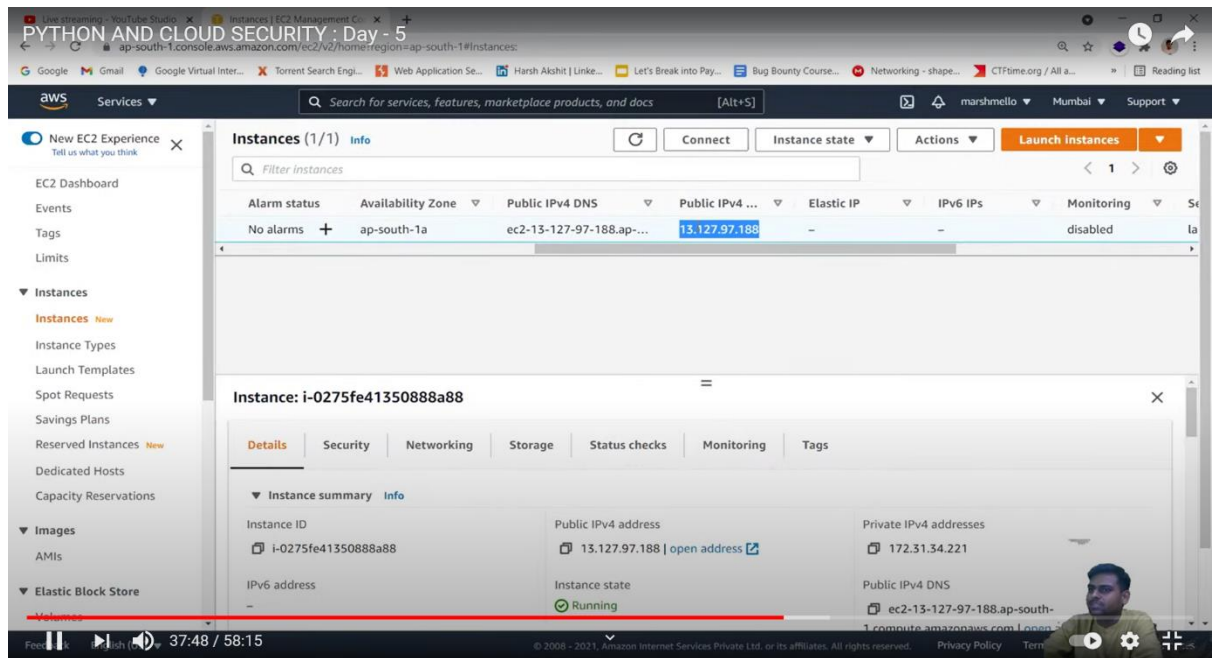
Cancel Previous **Review and Launch**

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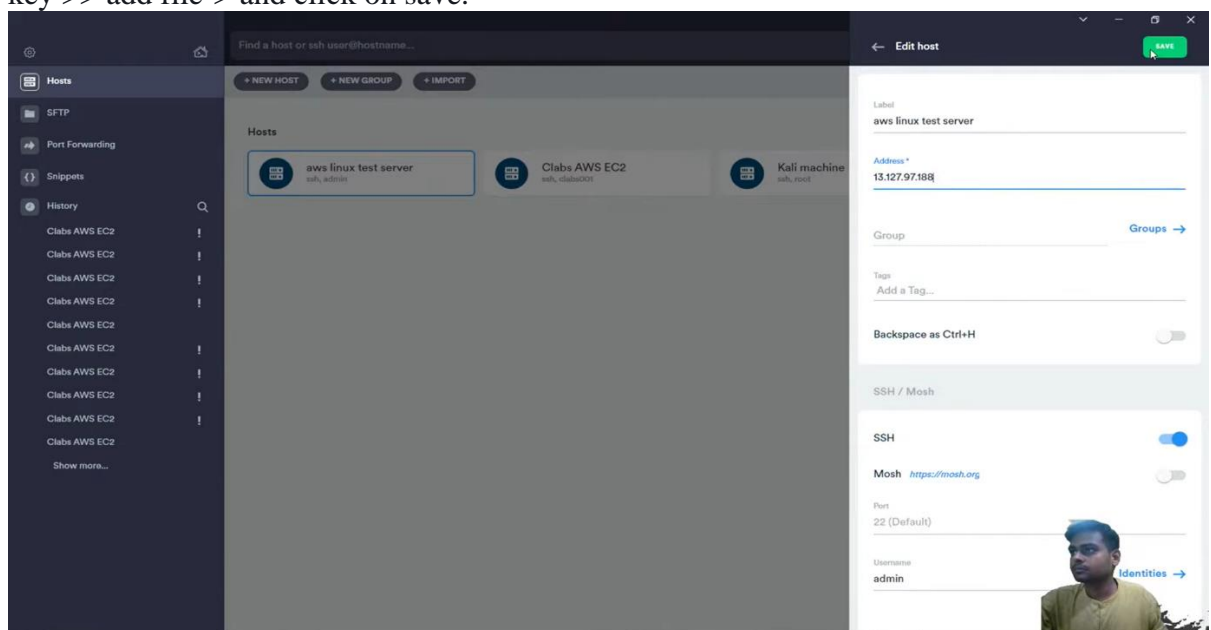
10. Now after reviewing click on Launch button. Then it asks to select an existing key or create new key. Then click on create a new key pair, name it and download it. Now click on Launch Instances.



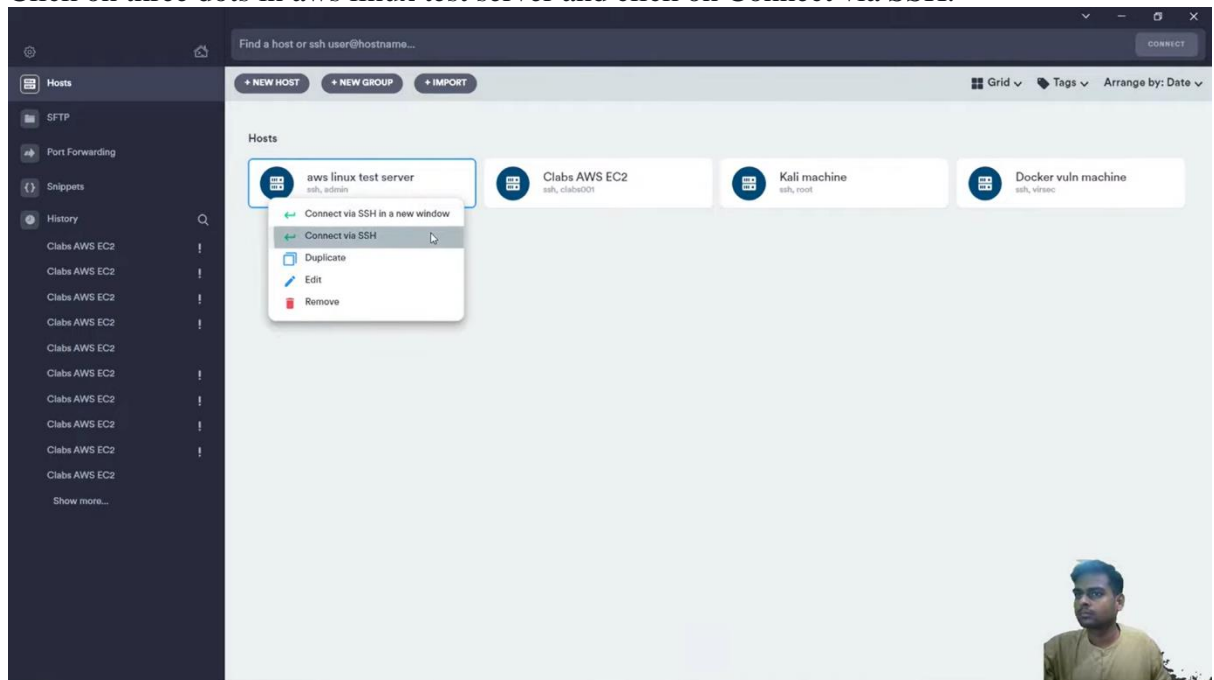
11. A confirmation page lets you know that your instance is launching. Choose **View Instances** to close the confirmation page and return to the console.



12. On the **Instances** screen, you can view the status of the launch. It takes a short time for an instance to launch. When you launch an instance, its initial state is pending. After the instance starts, its state changes to running.
13. It can take a few minutes for the instance to be ready so that you can connect to it. Check that your instance has passed its status checks; you can view this information in the **Status check** column.
14. Now to connect to your instance we are using termius premium version which we can get from Github Student Developer Pack by using college email ID.
15. In Termius, we are creating new host. Then add label and public IP address. Add an username and for password add downloaded key by clicking on key->>> button >>private key >> add file-> and click on save.



16. Click on three dots in aws linux test server and click on Connect via SSH.



17. Now click on Add and Continue and now you are inside your instance.

