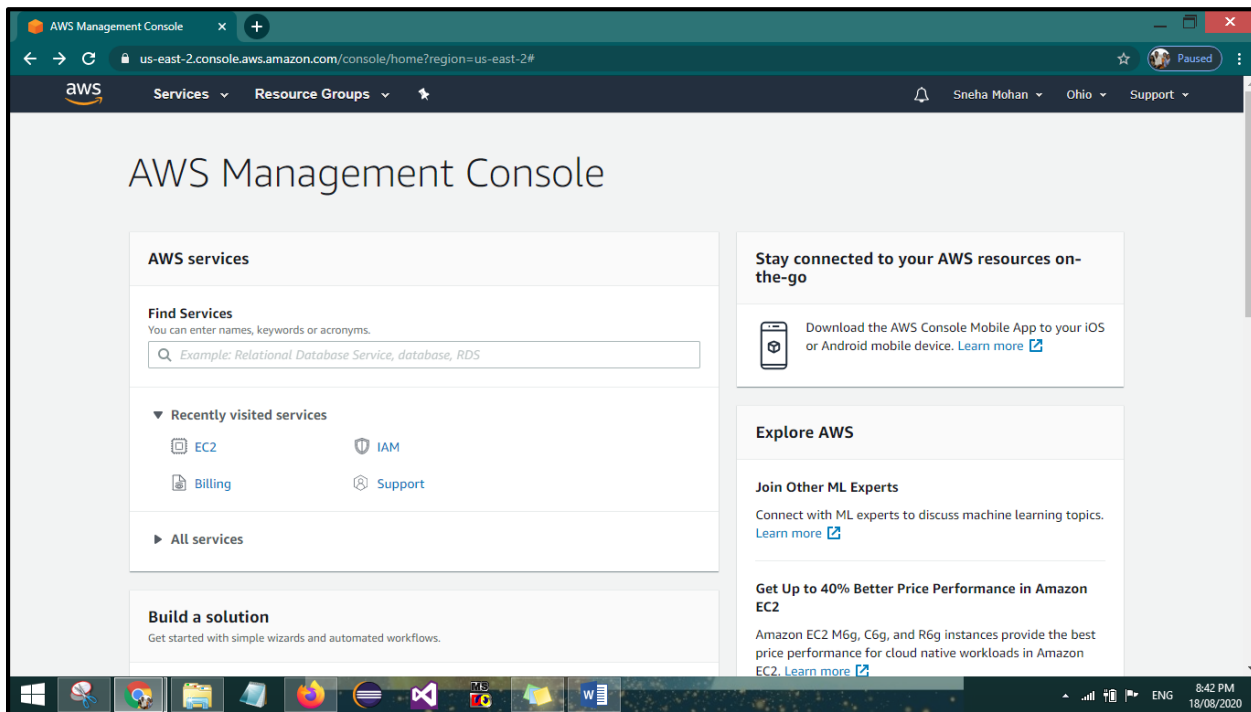


DAY-3 ASSIGNMENT

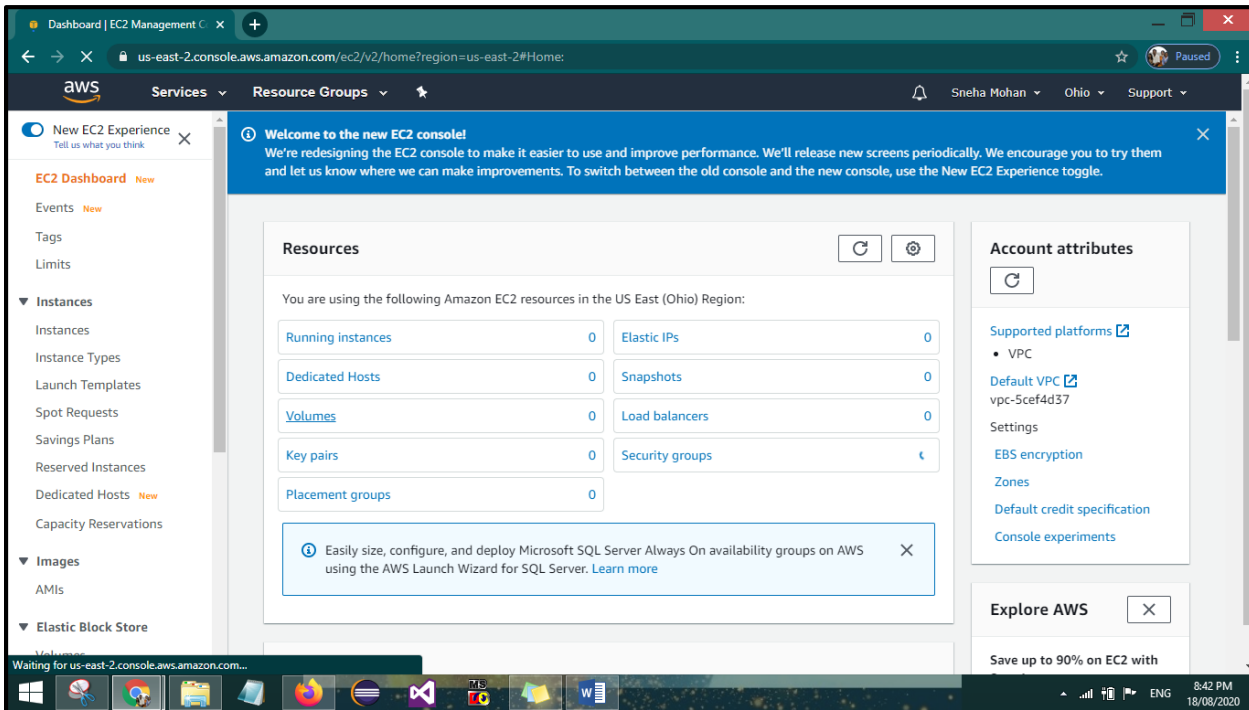
UBUNTU

STEPS:

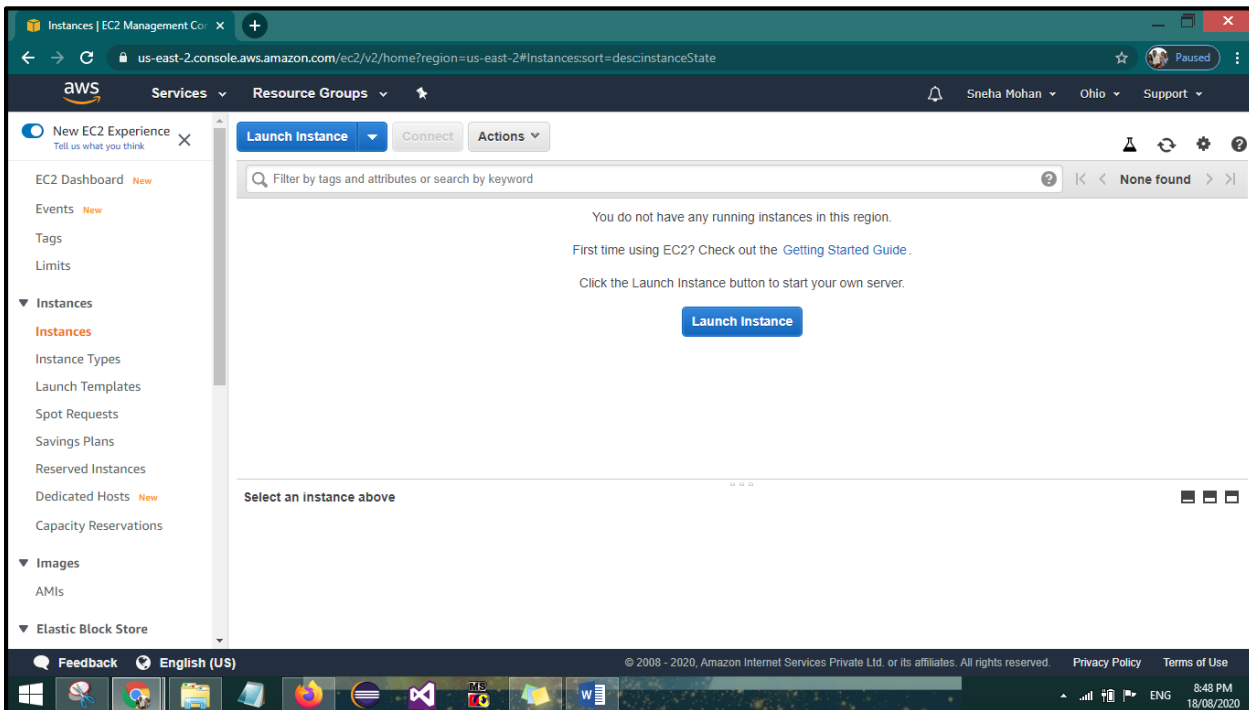
1. Open Aws Management Console
2. Click On Ec2



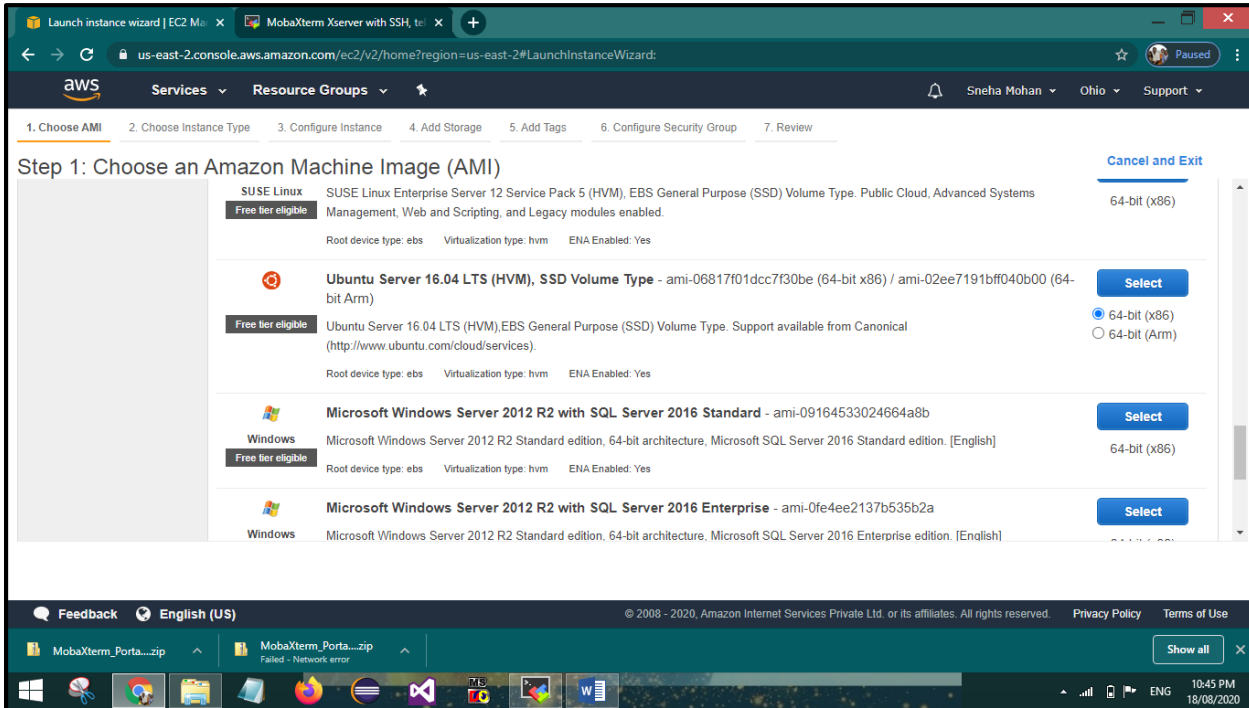
3. On The Right Sidebar Click On Instances



4. Now Click On Launch Instance

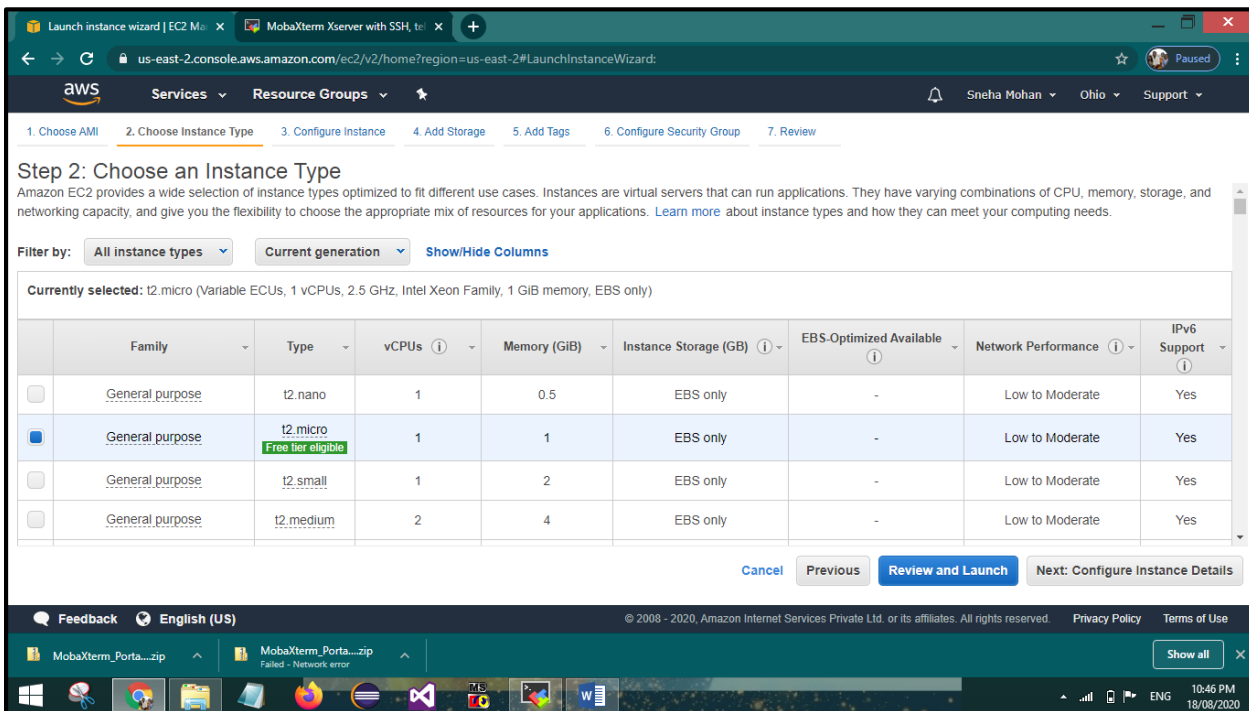


5. Select Ubuntu Server 16.04 LTS(HVM)



6. Select The General Purpose Family For Free Tier

7. Click On Next: Configure Instance Details



8. No Changes Are Required So, Click On Next: Add Storage

Launch instance wizard | EC2 M... x MobaXterm Xserver with SSH, t... x

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

Services Resource Groups

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-5cef4d37 (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

IAM role None Create new IAM role

Cancel Previous Review and Launch Next: Add Storage

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MobaXterm_Porta...zip MobaXterm_Porta...zip Failed - Network error Show all

10:46 PM 18/08/2020

9. No Changes Are Required So Click On Next: Add Tags

Launch instance wizard | EC2 M... x MobaXterm Xserver with SSH, t... x

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

Services Resource Groups

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

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/sda1	snap-09c363b058b9bf08	8	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 Next: Add Tags

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10:47 PM 18/08/2020

10. If You Want You Can Add Name Tag Such As 'Ubuntu' And Then Click On Next: Configure Security Groups

Launch instance wizard | EC2 M... x MobaXterm Xserver with SSH, te... x

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

Services Resource Groups

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 (i)	Volumes (i)
Name	ubuntu	<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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MobaXterm_Porta...zip MobaXterm_Porta...zip Failed - Network error Show all

10:47 PM 18/08/2020

11. In The Type Dropdown Change To All Traffic And In Source Select Anywhere

12. Click On Review And Launch

Launch instance wizard | EC2 M... x MobaXterm Xserver with SSH, te... x

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

Services Resource Groups

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 2020-08-18T22:47:44.981+05:30

Type (i)	Protocol (i)	Port Range (i)	Source (i)	Description (i)
All traffic	All	0 - 65535	Anywhere 0.0.0.0/0, ::/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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MobaXterm_Porta...zip MobaXterm_Porta...zip Failed - Network error Show all

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13. Click On Launch

The screenshot shows the AWS Management Console at the 'Review Instance Launch' step. The instance type is 't2.micro'. The security group is 'launch-wizard-3'. The 'Launch' button is highlighted.

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Type	Protocol	Port Range	Source	Description
All traffic	All	All	0.0.0.0/0	
All traffic	All	All	:::0	

Buttons: Cancel, Previous, Launch

14. You Can Create A New Key Pair Or Can Use Previous Key.

15. Download The Key Pair

16. Click On Launch Instances

The screenshot shows the AWS Management Console at the 'Review Instance Launch' step. A modal dialog is open asking to select an existing key pair or create a new one. The 'Launch Instances' button is highlighted.

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

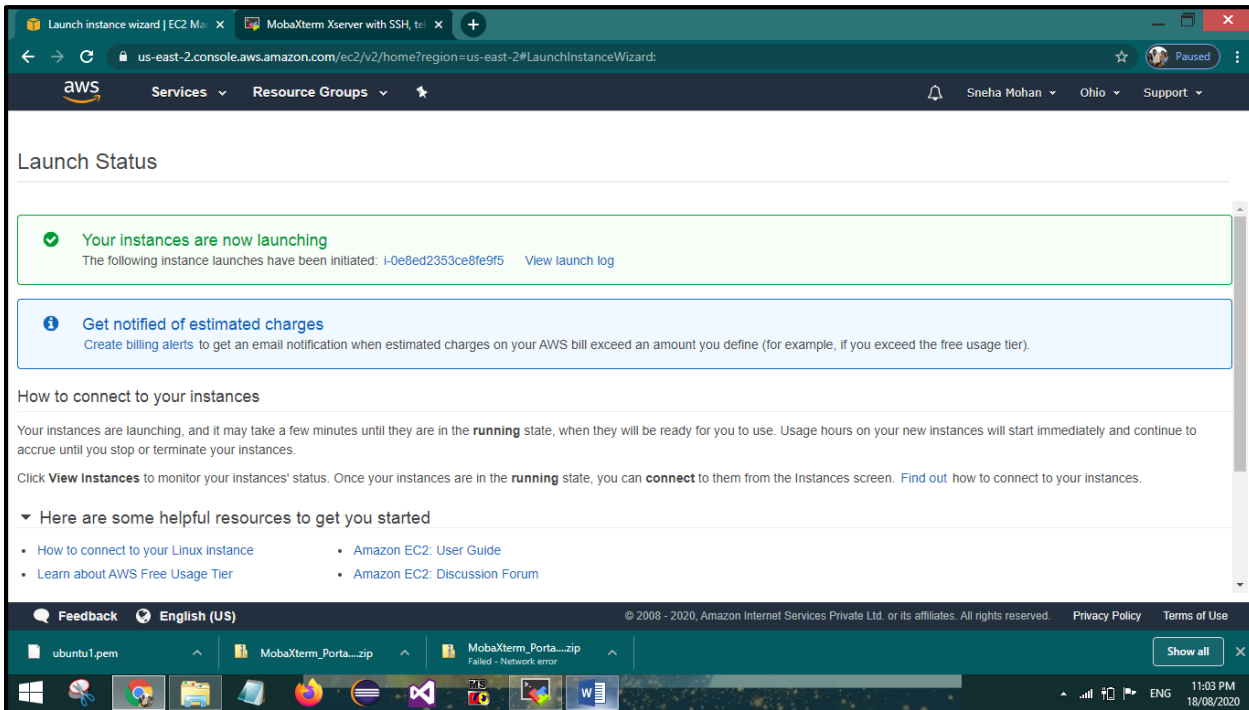
Choose an existing key pair:

Select a key pair:

☒ I acknowledge that I have access to the selected private key file (letsupgrade.pem), and that without this file, I won't be able to log into my instance.

Buttons: Cancel, Launch Instances

17. Open The Link Next To View Launch Tags



Launch Status

✓ **Your instances are now launching**
The following instance launches have been initiated: [i-0e8ed2353ce8fe9f5](#) [View launch log](#)

ℹ **Get notified of estimated charges**
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

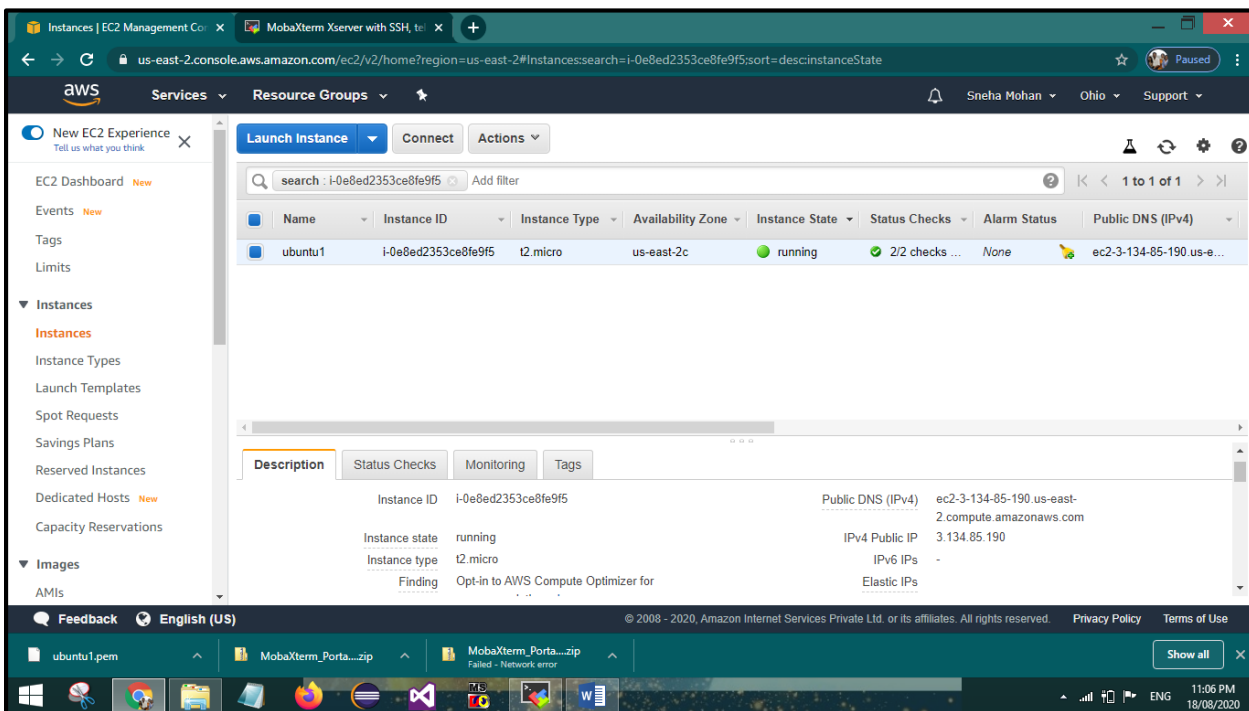
▼ Here are some helpful resources to get you started

- How to connect to your Linux instance
- Amazon EC2: User Guide
- Learn about AWS Free Usage Tier
- Amazon EC2: Discussion Forum

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ubuntu1.pem MobaXterm_Porta...zip MobaXterm_Porta...zip Failed - Network error Show all

18. You Can See The Instance Initializing, Let It Complete Initialization



Instances | EC2 Management Console

Launch Instance Connect Actions

search: i-0e8ed2353ce8fe9f5 Add filter

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
ubuntu1	i-0e8ed2353ce8fe9f5	t2.micro	us-east-2c	running	2/2 checks ...	None	ec2-3-134-85-190 us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID: i-0e8ed2353ce8fe9f5 Public DNS (IPv4): ec2-3-134-85-190.us-east-2.compute.amazonaws.com

Instance state: running IPv4 Public IP: 3.134.85.190

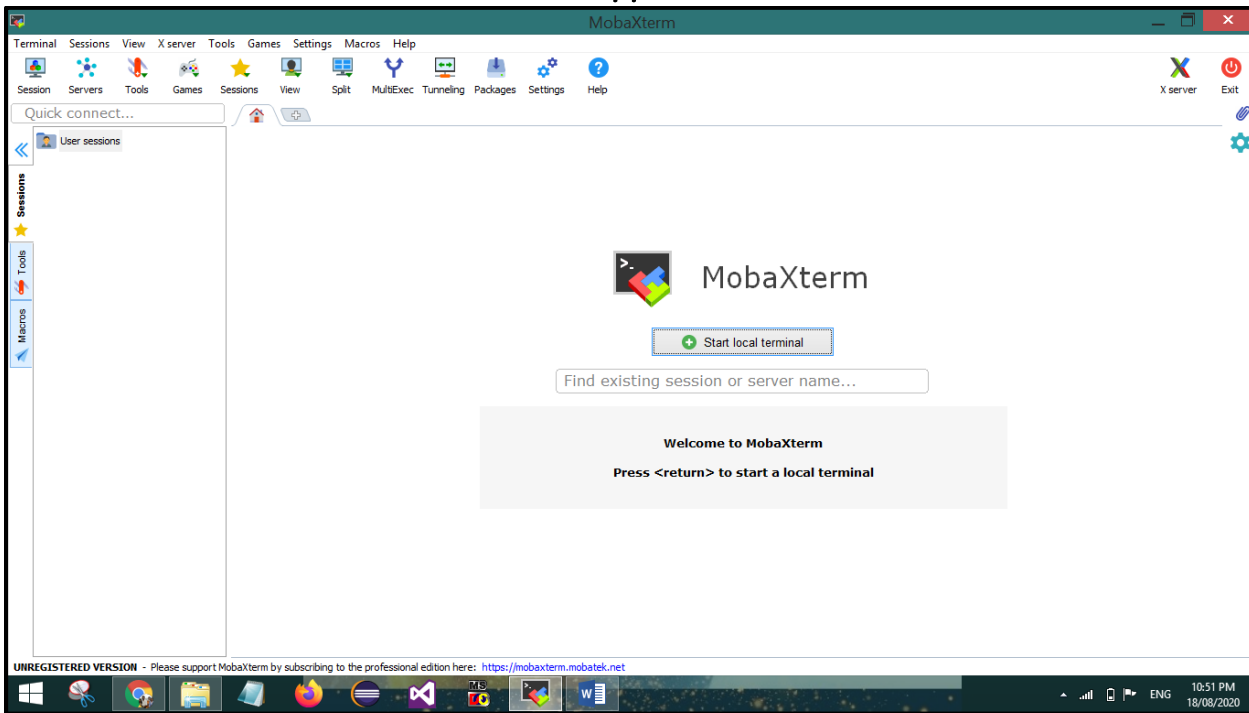
Instance type: t2.micro IPv6 IPs: -

Finding: Opt-in to AWS Compute Optimizer for Elastic IPs

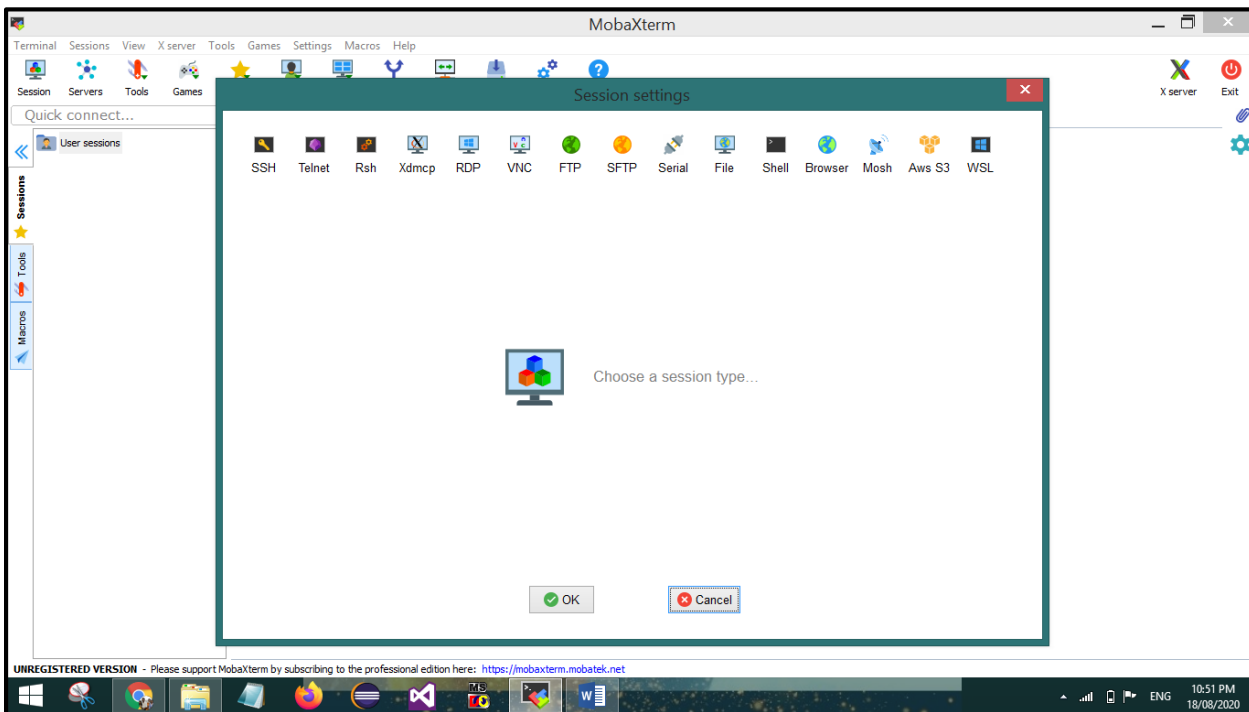
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ubuntu1.pem MobaXterm_Porta...zip MobaXterm_Porta...zip Failed - Network error Show all

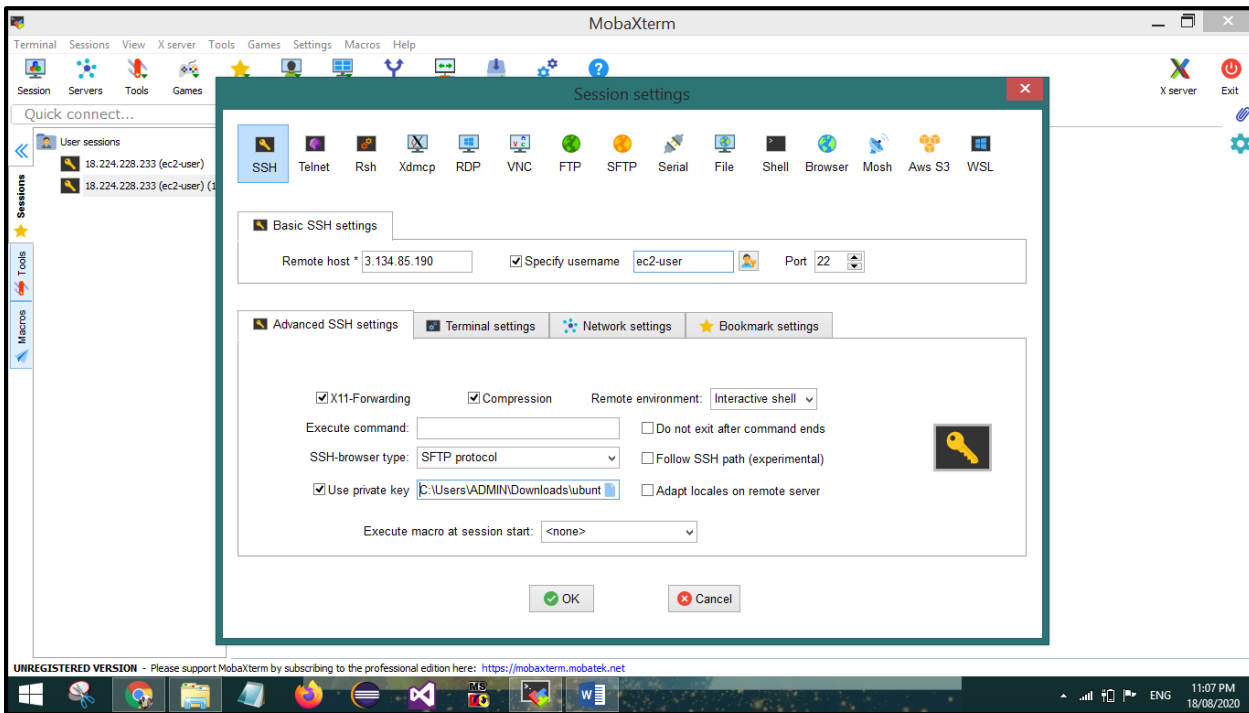
19. Download MobaXterm
20. Extract All The File And Run The Application



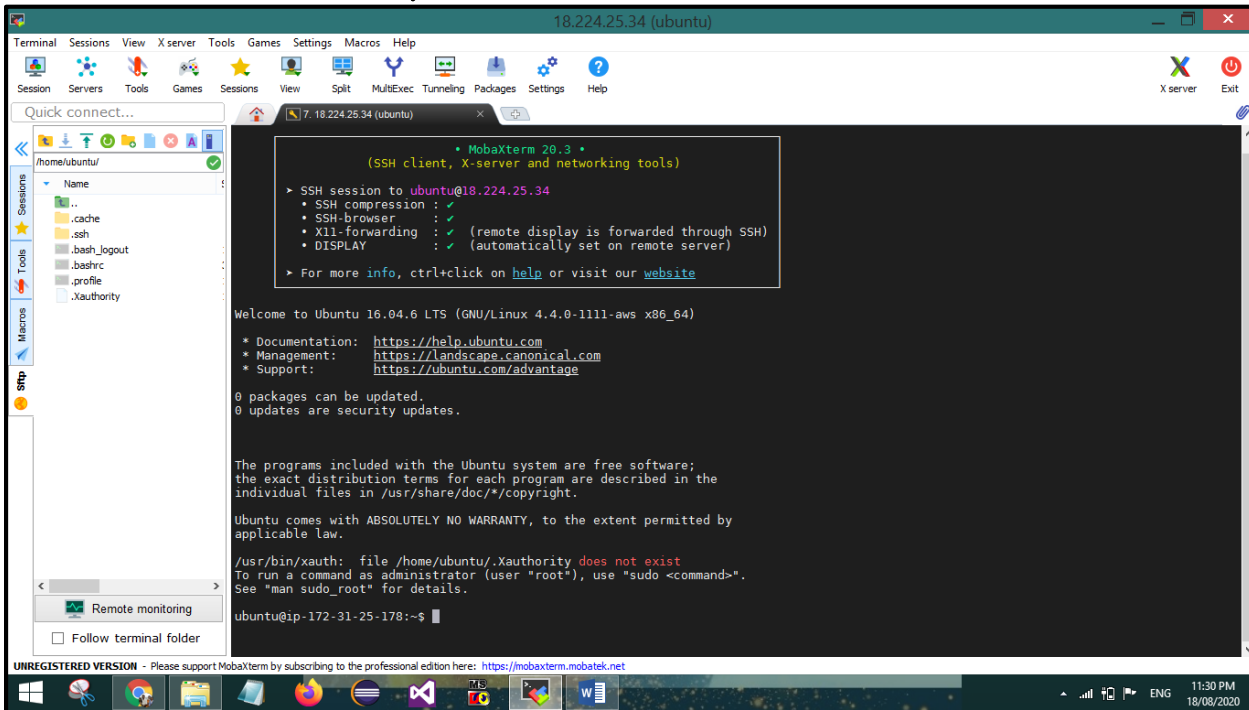
21. Click On Session
22. Select SSH



23. Copy The Instance Ipv4 Address And Paste In Remote Host And Give Username As Ubuntu
24. Click On Advanced SSH Settings Check Use Private Key And Open The .pem File
25. Click On Ok



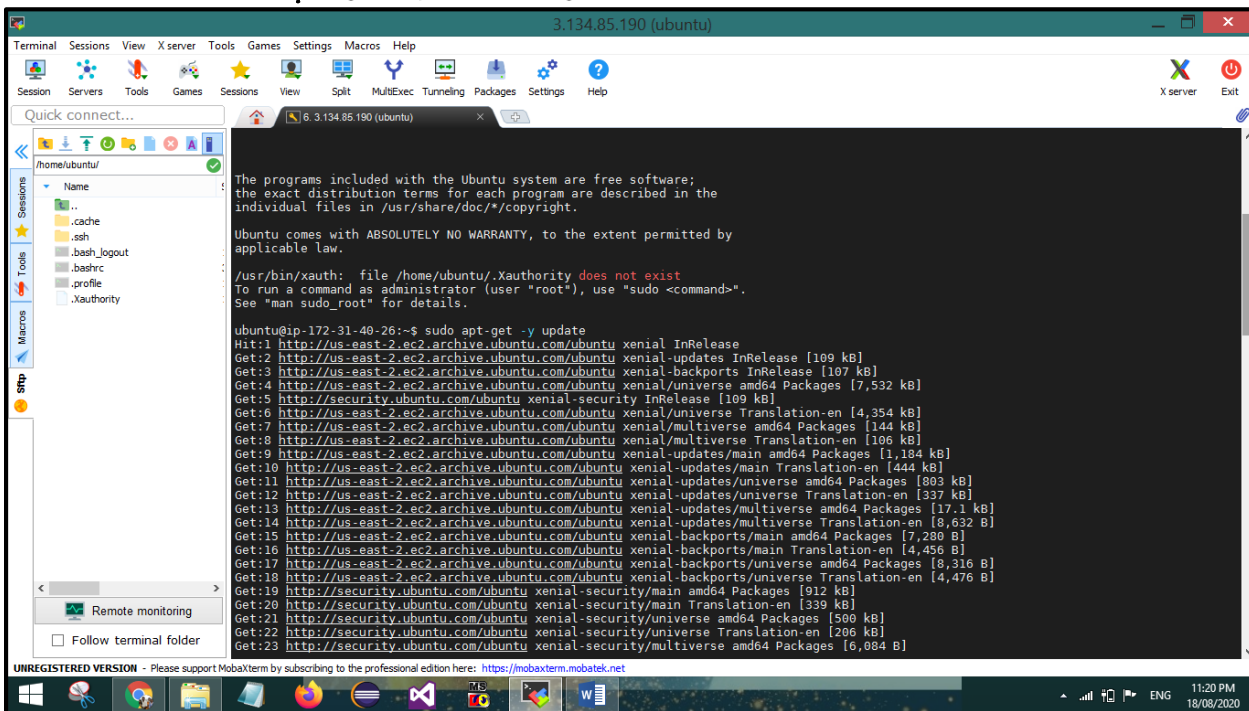
26. Ubuntu Instance Will Open



27. Write The Following Code

```

sudo apt-get -y update
sudo apt-get -y install nginx
  
```



```

ubuntu@ip-172-31-48-26:~$ sudo apt-get -y install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  fontconfig-config fonts-dejavu-core libfontconfig1 libgd3 libjpeg8 libtiff5 libvpx3 libxpm4 nginx-common
  nginx-core
Suggested packages:
  libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  fontconfig-config fonts-dejavu-core libfontconfig1 libgd3 libjpeg8 libtiff5 libvpx3 libxpm4 nginx
  nginx-common nginx-core
0 upgraded, 13 newly installed, 0 to remove and 13 not upgraded.
Need to get 2,860 kB of archives.
After this operation, 9,315 kB of additional disk space will be used.
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 libjpeg-turbo8 amd64 1.4.2-0ubuntu3.4 [111 kB]
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial/main amd64 libjpeg8 amd64 2.1-3.1 [26.6 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial/main amd64 fonts-dejavu-core all 2.35-1 [1,039 kB]
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 fontconfig-config all 2.11.94-0ubuntu1.1 [49.9 kB]
Get:5 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 libfontconfig1 amd64 2.11.94-0ubuntu1.1 [131 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial/main amd64 libgd3 amd64 2.2.3-6ubuntu2 [2,194 B]
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 libtiff5 amd64 4.0.6-1ubuntu0.7 [149 kB]
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 libvpx3 amd64 1.3.0-2ubuntu1.1 [732 kB]
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 libxpm4 amd64 1:3.5.11-1ubuntu0.16.04.1 [33.8 kB]
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 libgd3 amd64 2.1.1-4ubuntu0.16.04.12 [126 kB]
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 nginx-common all 1.10.3-0ubuntu0.16.04.5 [26.9 kB]
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 nginx-core amd64 1.10.3-0ubuntu0.16.04.5 [429 kB]
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu xenial-updates/main amd64 nginx all 1.10.3-0ubuntu0.16.04.5 [3,494 B]
Fetched 2,860 kB in 0s (36.2 MB/s)
Preconfiguring packages ...
Selecting previously unselected package libjpeg-turbo8:amd64.
(Reading database ... 51436 files and directories currently installed.)
Preparing to unpack .../libjpeg-turbo8_1.4.2-0ubuntu3.4_amd64.deb ...
Unpacking libjpeg-turbo8:amd64 (1.4.2-0ubuntu3.4) ...
Selecting previously unselected package libjpeg8:amd64.
Preparing to unpack .../libjpeg8_2.1-3.1_amd64.deb ...
Unpacking libjpeg8:amd64 (2.1-3.1) ...
Selecting previously unselected package fonts-dejavu-core.

```

28. Now On New Tab Paste Ipv4 Address Of The Instance

29. You Will Be Able To See Nginx

