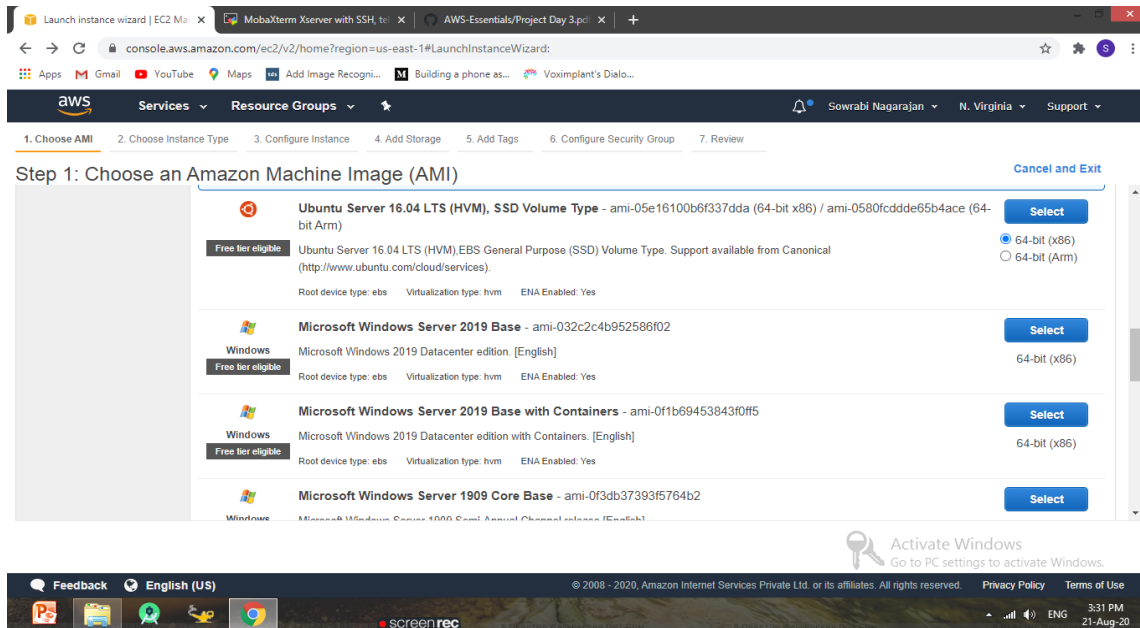
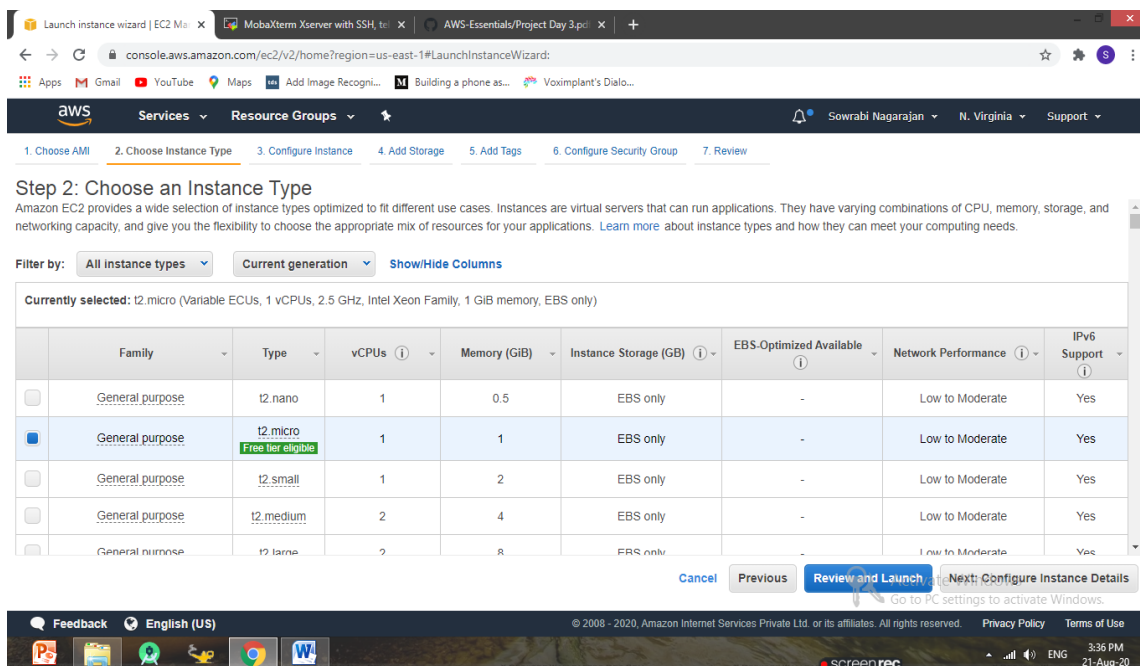


LAUNCHING OF UBUNTU INSTANCE USING SSH

Step 1 : Choose an Amazon Machine Image (AMI) in AWS console



Step 2 : Choose Instance type



Step 3 : Configure Instance Details

Launch instance wizard | EC2 M... x MobaXterm Xserver with SSH, tr... x AWS-Essentials/Project Day 3.pd... x

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

aws 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 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

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

Cancel Previous Review and Launch Next: Configure Instance Details

Go to PC settings to activate Windows.

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screenrec 3:36 PM 21-Aug-20

Step 4 : Add storage

Launch instance wizard | EC2 M... x MobaXterm Xserver with SSH, tr... x AWS-Essentials/Project Day 3.pd... x

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

aws 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-056137a1fc2aebb7b	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

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

Go to PC settings to activate Windows.

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Step 5 : Add tag if you need

The screenshot shows the AWS Management Console's 'Launch instance wizard' for an EC2 instance. The '5. Add Tags' step is active, showing a table to add tags. The table has columns for 'Key' (128 characters maximum), 'Value' (256 characters maximum), and checkboxes for 'Instances' and 'Volumes'. A button 'Add another tag' is available, with a note '(Up to 50 tags maximum)'. At the bottom, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Configure Security Group'. A tooltip for 'Review and Launch' says 'Go to PC settings to activate Windows.' The footer shows 'Feedback', 'English (US)', copyright information, and system status.

Key (128 characters maximum)	Value (256 characters maximum)	Instances	Volumes
		<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](#)

Go to PC settings to activate Windows.

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Step 6 : Configure Security Group

The screenshot shows the '6. Configure Security Group' step of the AWS Launch Instance Wizard. It allows creating a new security group or selecting an existing one. A new security group named 'launch-wizard-4' is being created with the description 'launch-wizard-4 created 2020-08-21T15:40:20.299+05:30'. A table shows the configured rules: 'All traffic' on 'All' protocol, 'Port Range' '0 - 65535', 'Source' 'Anywhere' (0.0.0.0/0, ::0), and 'Description' 'e.g. SSH for Admin Desktop'. A warning message states: '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.' At the bottom, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and a tooltip for 'Review and Launch' says 'Go to PC settings to activate Windows.' The footer shows 'Feedback', 'English (US)', copyright information, and system status.

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

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
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](#)

Go to PC settings to activate Windows.

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Step 7 : Review and launch the Instance

Step 7: Review Instance Launch
Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Improve your instances' security. Your security group, launch-wizard-4, is open to the world.
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details
Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-05e16100b6f337dda
Free tier eligible
Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).
Root Device Type: ebs Virtualization type: hvm

Instance Type

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

Launch **Previous** **Cancel**
Go to PC settings to activate Windows.

Step 8 : Create a key pair or use the existing one

Select an existing key pair or create a new key pair

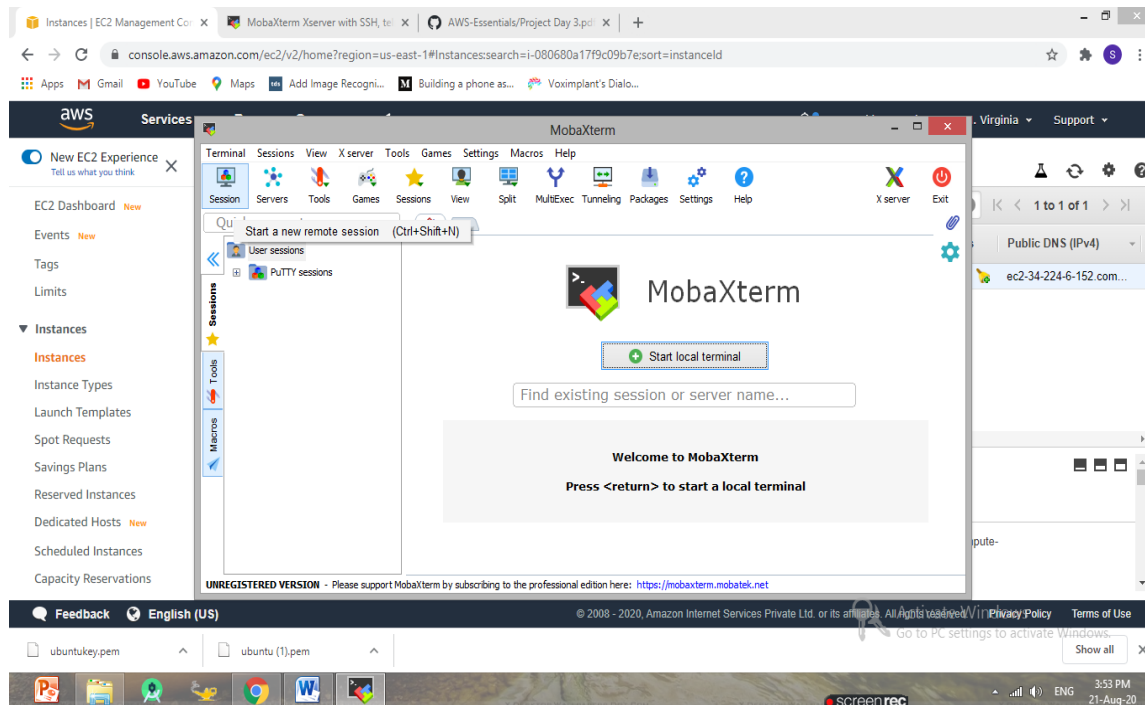
A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key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

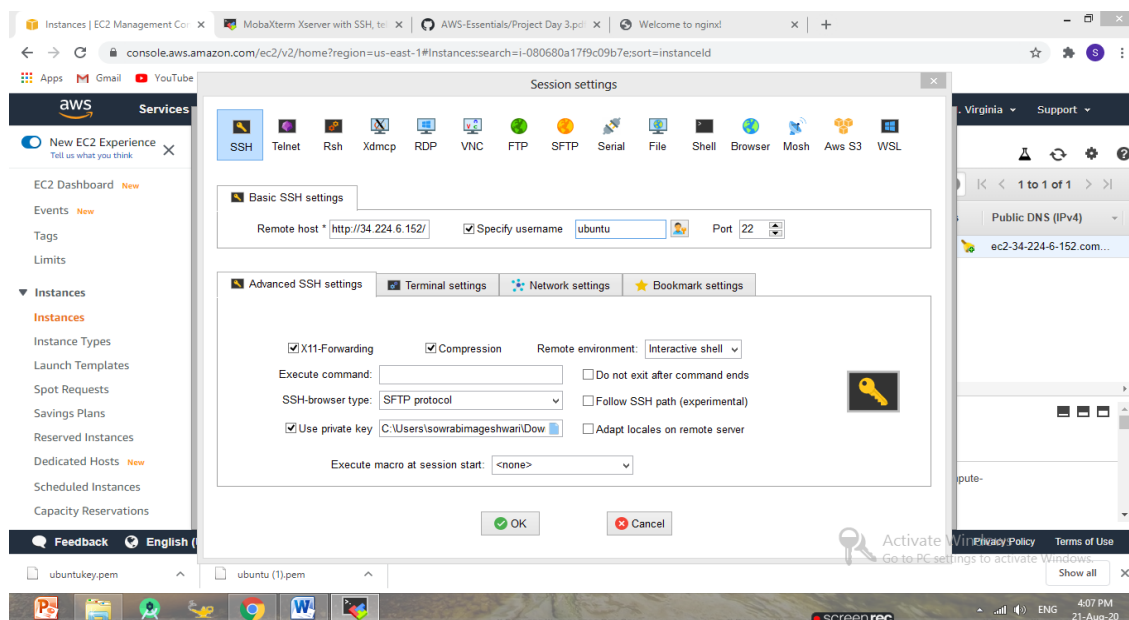
Create a new key pair
Key pair name
ubuntu key
Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Step 9 : Open 'MobaXterm' and click on 'Session'

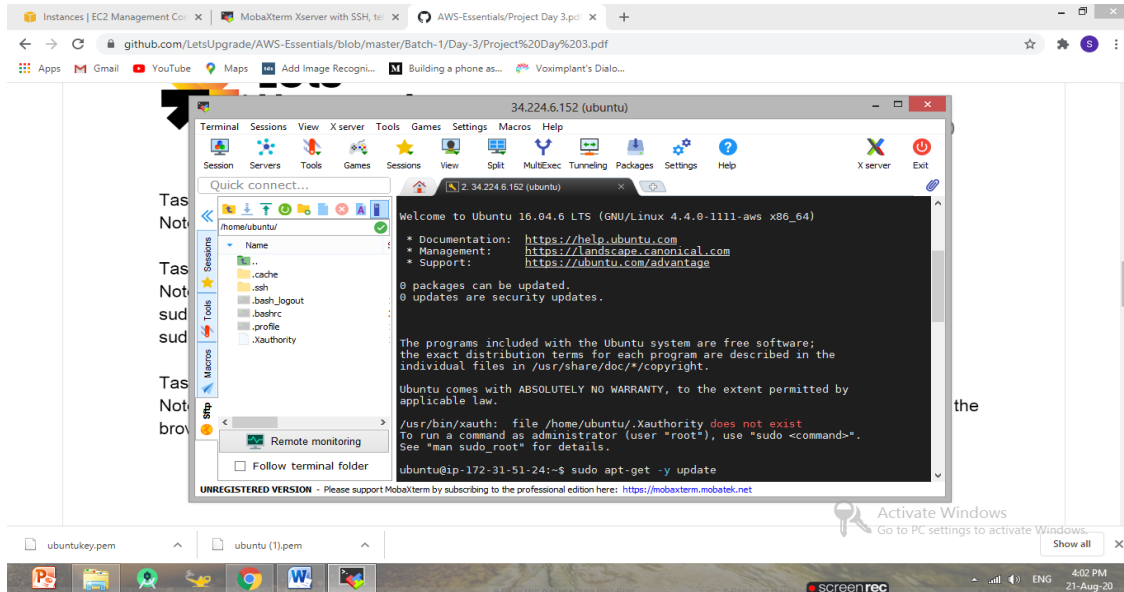


Step 10 : Select SSH session, Give public IP from the launched instance to the host address and specify username as 'ubuntu'. Also, give the location of keypair in the private key.



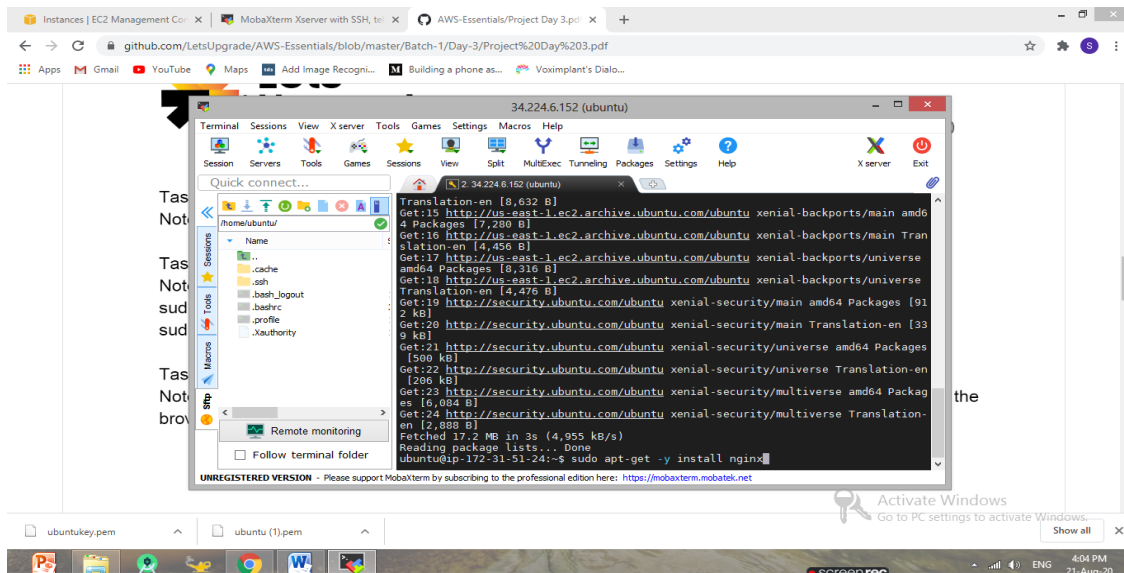
Step 11 : In the Ubuntu terminal, run the following command

sudo apt-get -y update

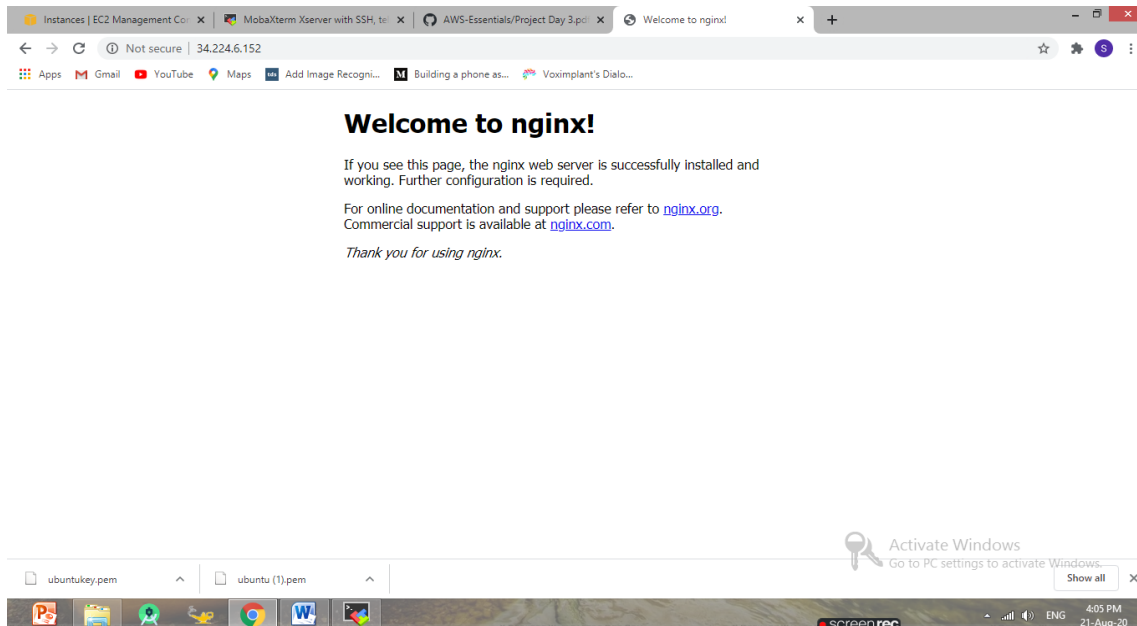


Step 12 : Following that, give this command to install nginx

sudo apt-get -y install nginx



Step 13 : After installing nginx , copy the public IP address in the launched instance and open it in browser. If this page gets loaded , nginx webserver is successfully installed.



These are the steps to install web server in ubuntu Instance of AWS.