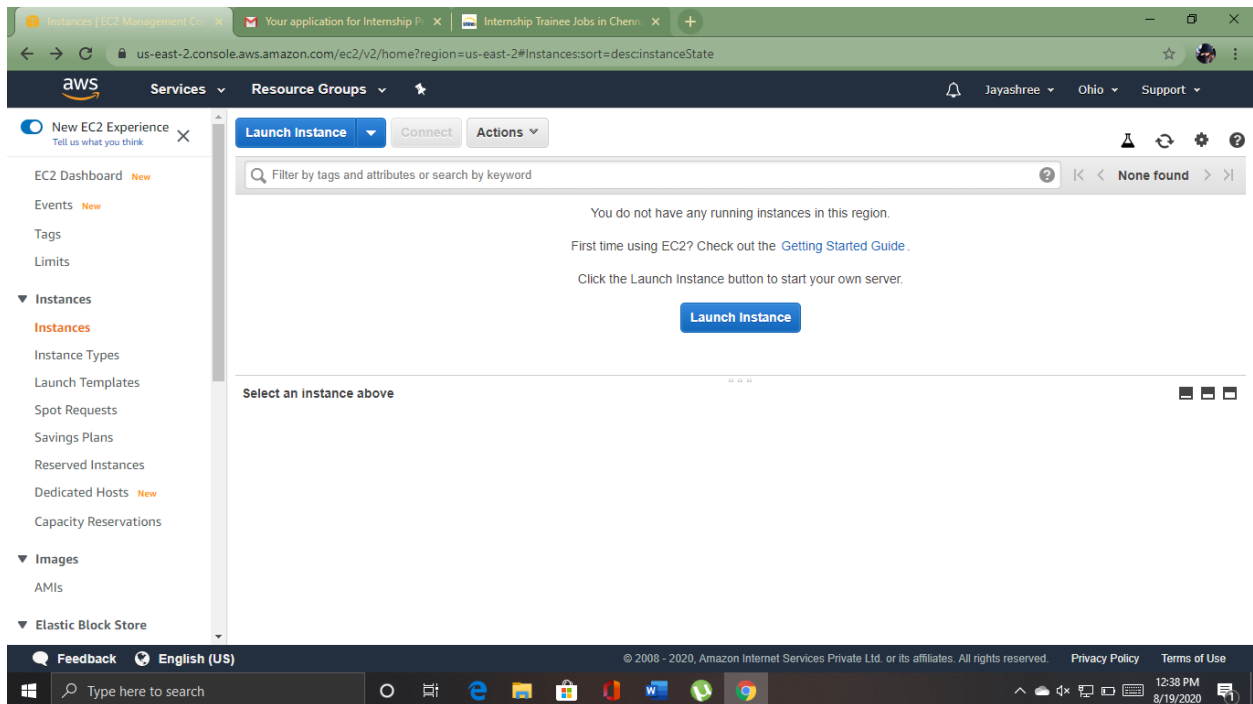


# AWS ESSENTIALS- LAB 1 AND LAB 2

NAME: JAYASHREE N.

## Lab 1 – Deploying webserver using windows

### Step 1: Creating Instance



Launch instance wizard [EC2 M] x Your application for Internship P x Internship Trainee Jobs in Chennai x

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

aws Services Resource Groups Jayashree Ohio Support

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

### Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

**Amazon RDS**  
database management tasks. With RDS, you can easily deploy **Amazon Aurora, MariaDB, MySQL, Oracle, PostgreSQL, and SQL Server** databases on AWS. **Aurora** is a MySQL- and PostgreSQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. [Learn more about RDS](#)  
**Launch a database using RDS**

**Microsoft Windows Server 2019 Base** - ami-0239d3998515e9ed1  
Windows  
Free tier eligible  
Microsoft Windows 2019 Datacenter edition. [English]  
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes  
64-bit (x86) **Select**

**Microsoft Windows Server 2019 Base with Containers** - ami-0860285e3eeb23175  
Windows  
Free tier eligible  
Microsoft Windows 2019 Datacenter edition with Containers. [English]  
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes  
64-bit (x86) **Select**

**Microsoft Windows Server 2019 with SQL Server 2017 Standard** - ami-0b380d0ff25a6fcf6  
Windows  
Microsoft Windows 2019 Datacenter edition, Microsoft SQL Server 2017 Standard. [English]  
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes  
64-bit (x86) **Select**

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Type here to search

Launch instance wizard [EC2 M] x Your application for Internship P x Internship Trainee Jobs in Chennai x

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

aws Services Resource Groups Jayashree Ohio Support

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

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Type here to search

12:38 PM 8/19/2020

Launch instance wizard [EC2 M] x Your application for Internship P... x Internship Trainee Jobs in Chennai... x

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

aws Services Resource Groups Jayashree Ohio Support

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-6e934605 (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

Cancel Previous Review and Launch Next: Add Storage

Feedback English (US)

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Type here to search

Launch instance wizard [EC2 M] x Your application for Internship P... x Internship Trainee Jobs in Chennai... x

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

aws Services Resource Groups Jayashree Ohio Support

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-0fce5b6ed98763b3e	30	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

Feedback English (US)

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Type here to search

12:43 PM 8/19/2020



## 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.

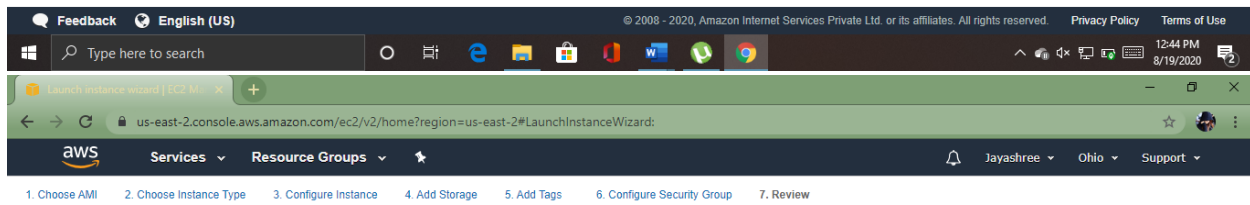
Assign a security group: ☒ Create a new security group  
☐ Select an existing security group

Security group name:   
Description:

Type	Protocol	Port Range	Source	Description
All traffic	All	0 - 65535	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
<button>Add Rule</button>				

**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](#)



## 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-1, 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 [Edit AMI](#)

 **Microsoft Windows Server 2019 Base - ami-0239d3998515e9ed1**

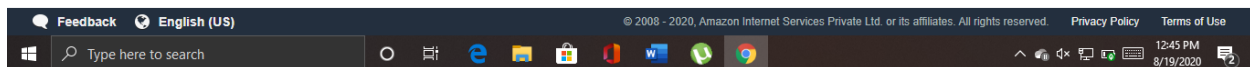
**Free tier eligible** Microsoft Windows 2019 Datacenter edition. [English]  
Root Device Type: ebs Virtualization type: hvm

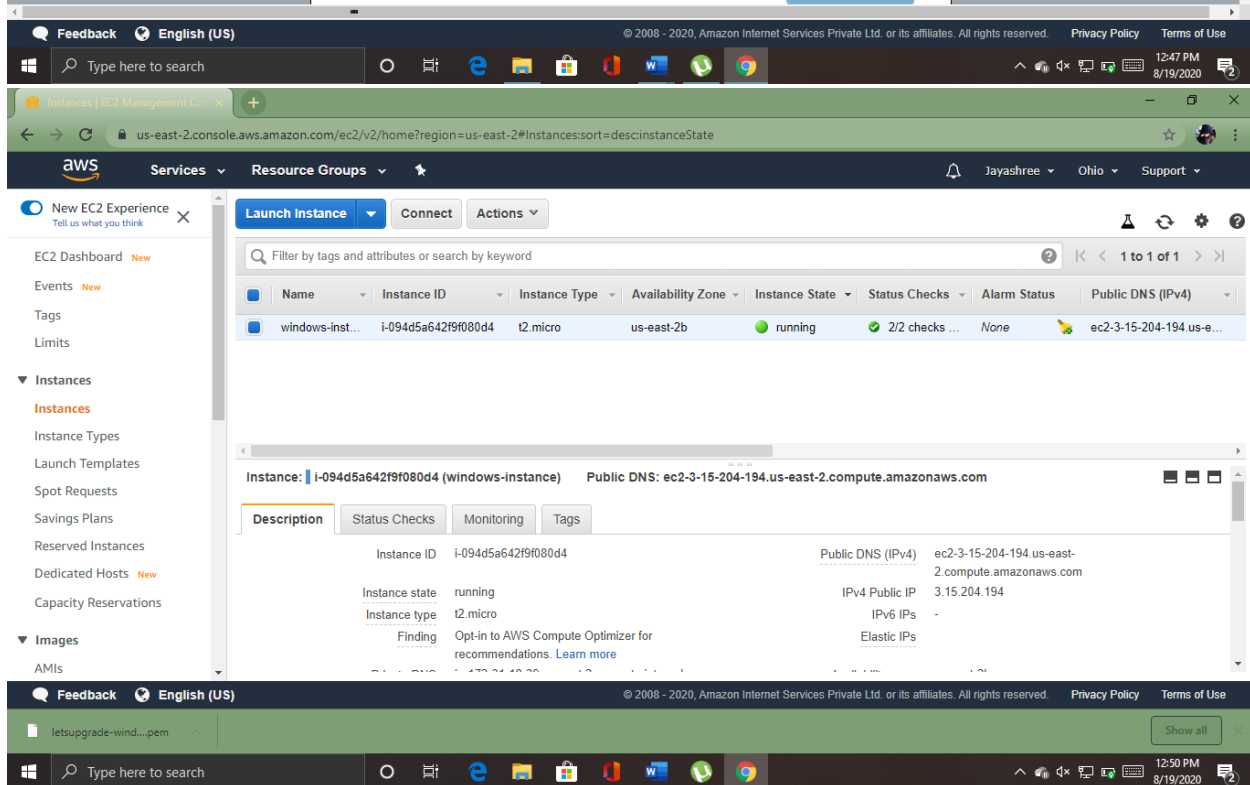
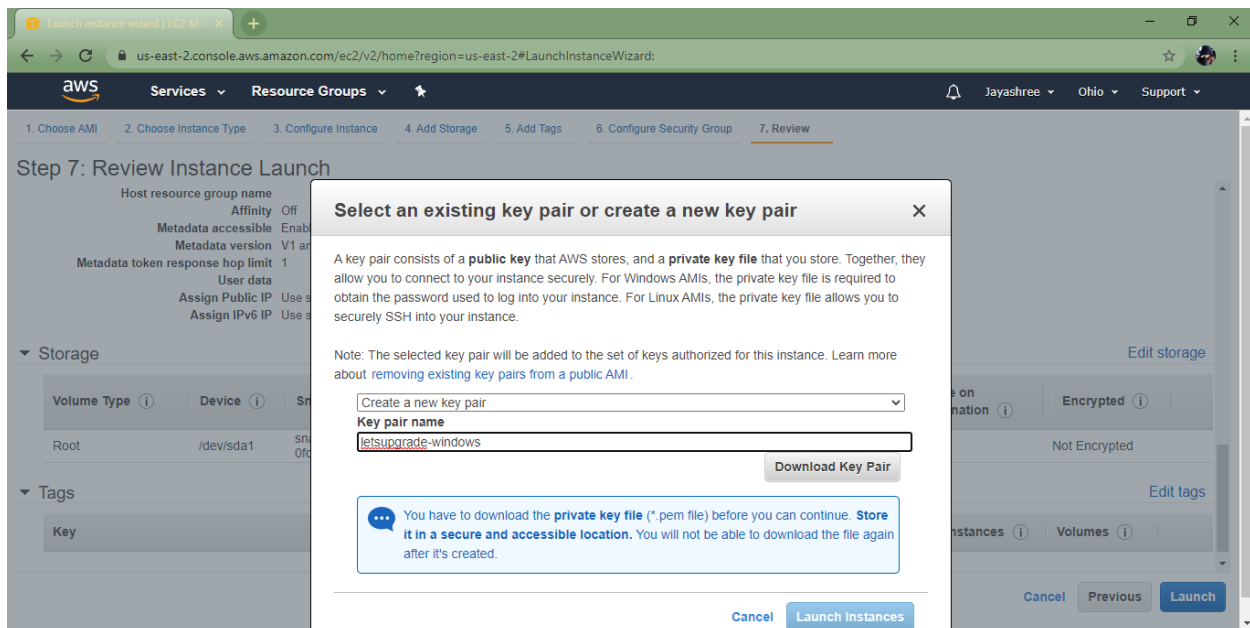
If you plan to use this AMI for an application that benefits from Microsoft License Mobility, fill out the [License Mobility Form](#). Don't show me this again

▼ Instance Type [Edit 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

[Cancel](#) [Previous](#) [Launch](#)

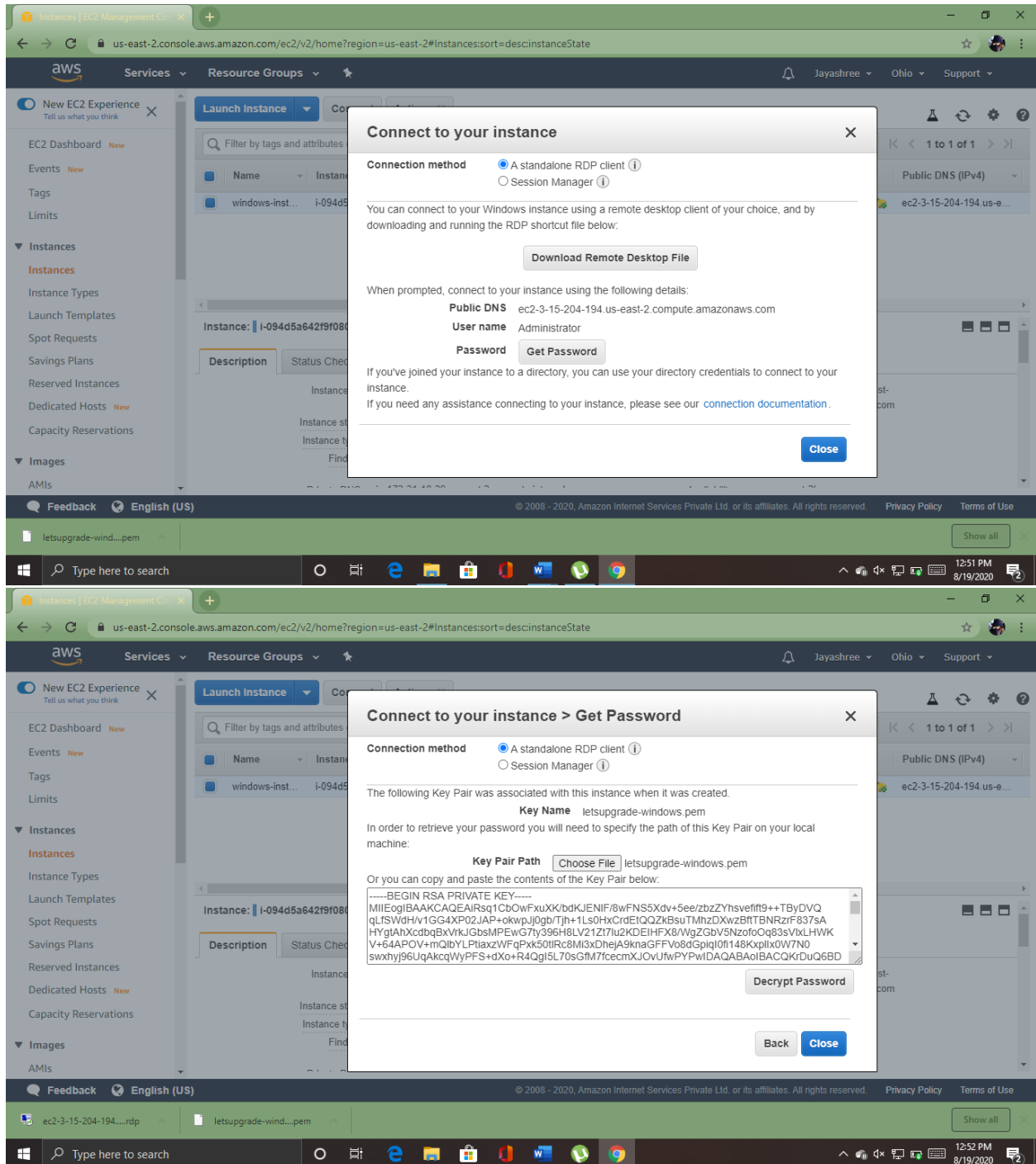


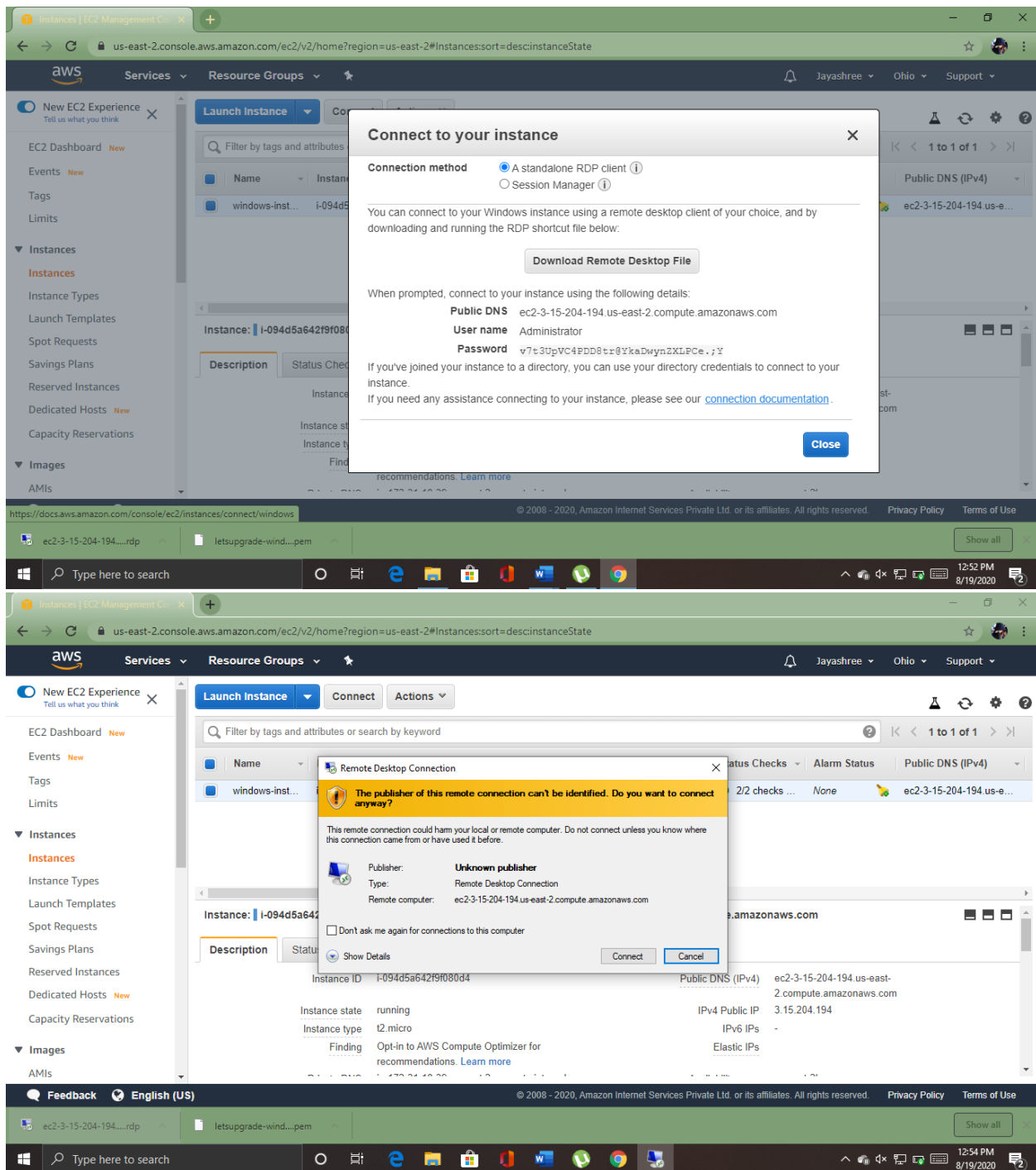


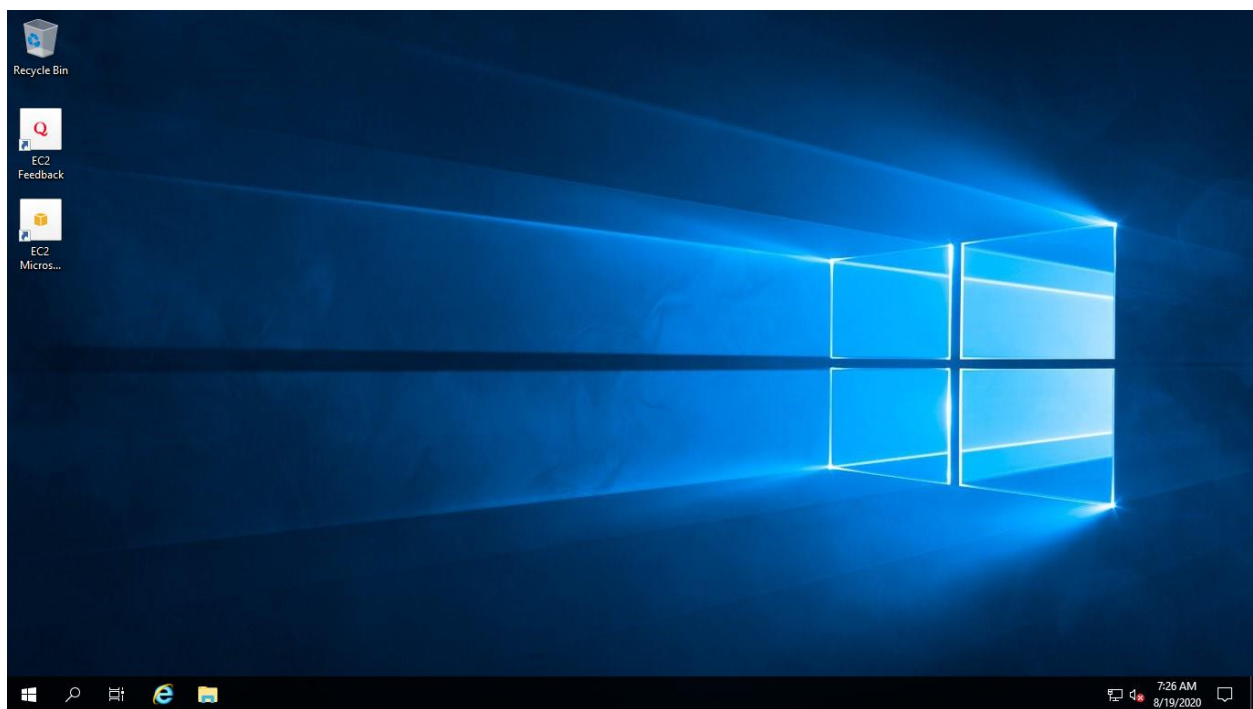
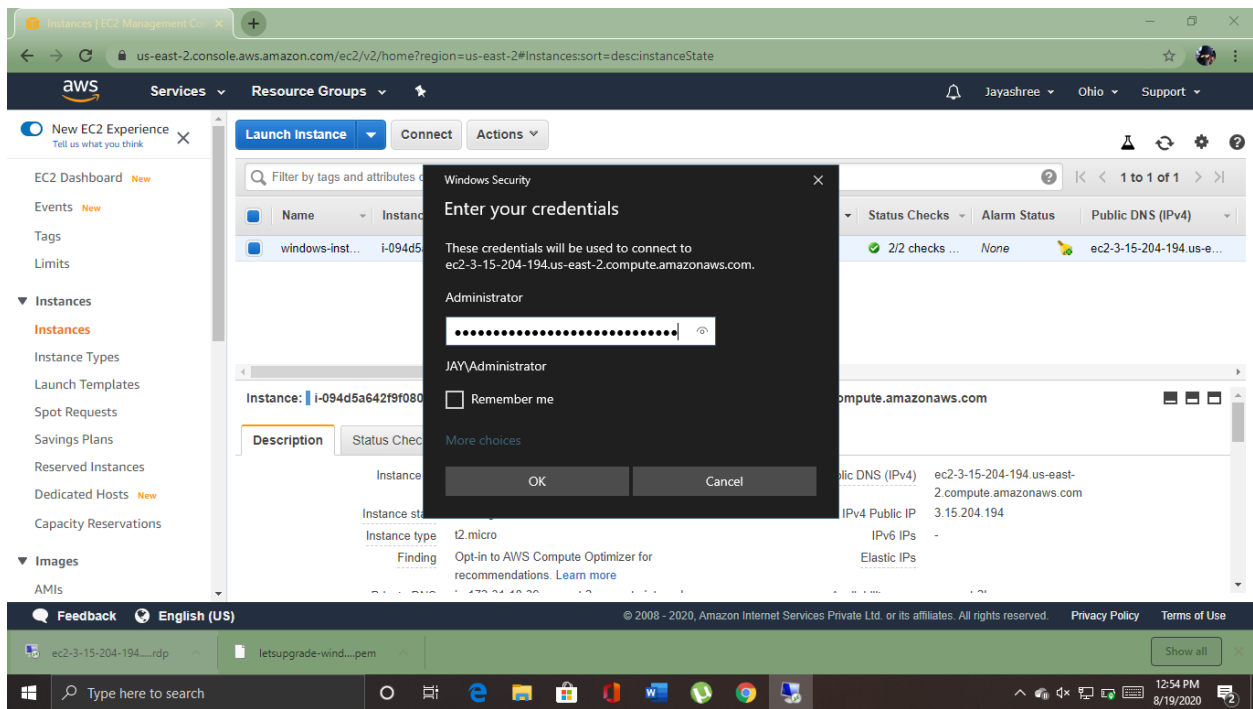
## Step 2: Connecting Instance:

Download the Remote desktop file which used to connect the windows GUI

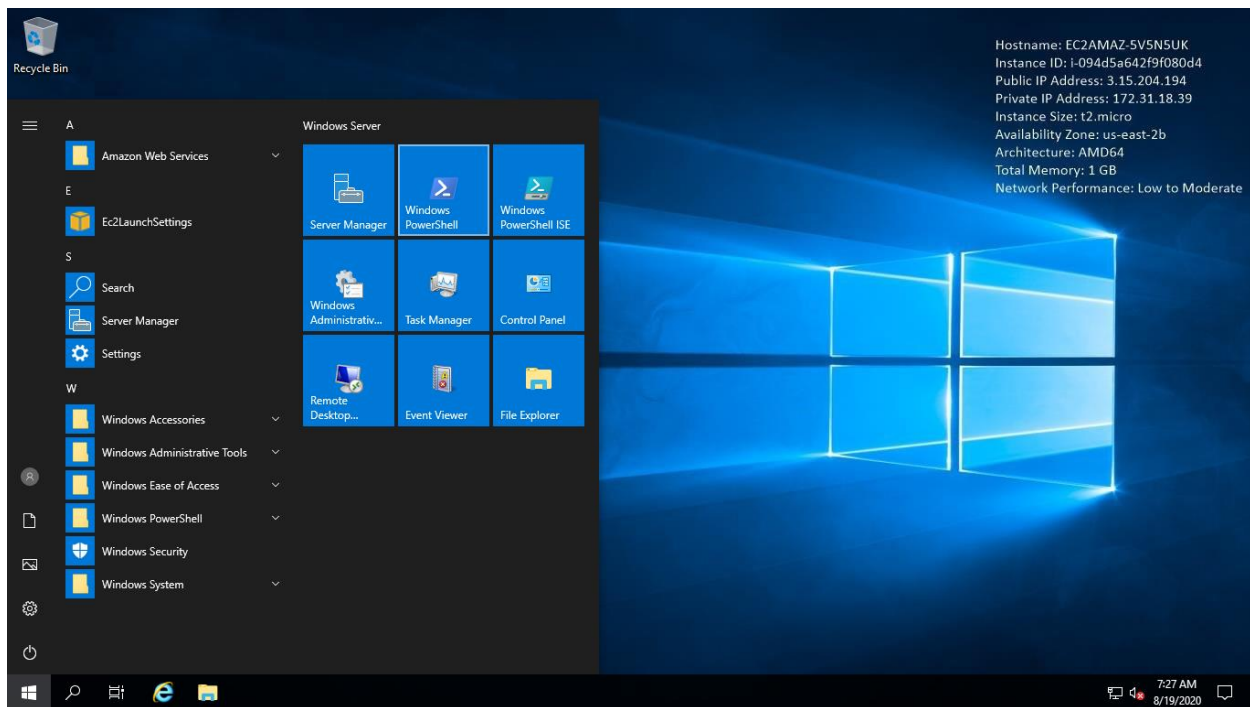
Download password



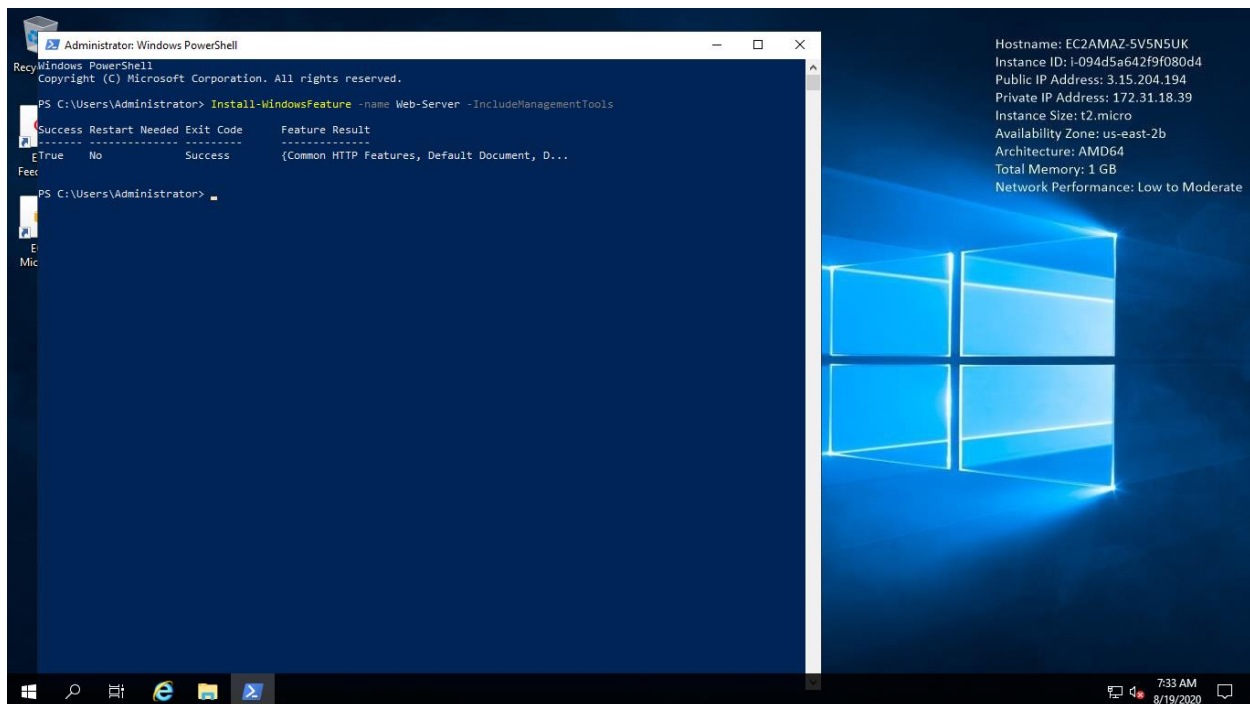




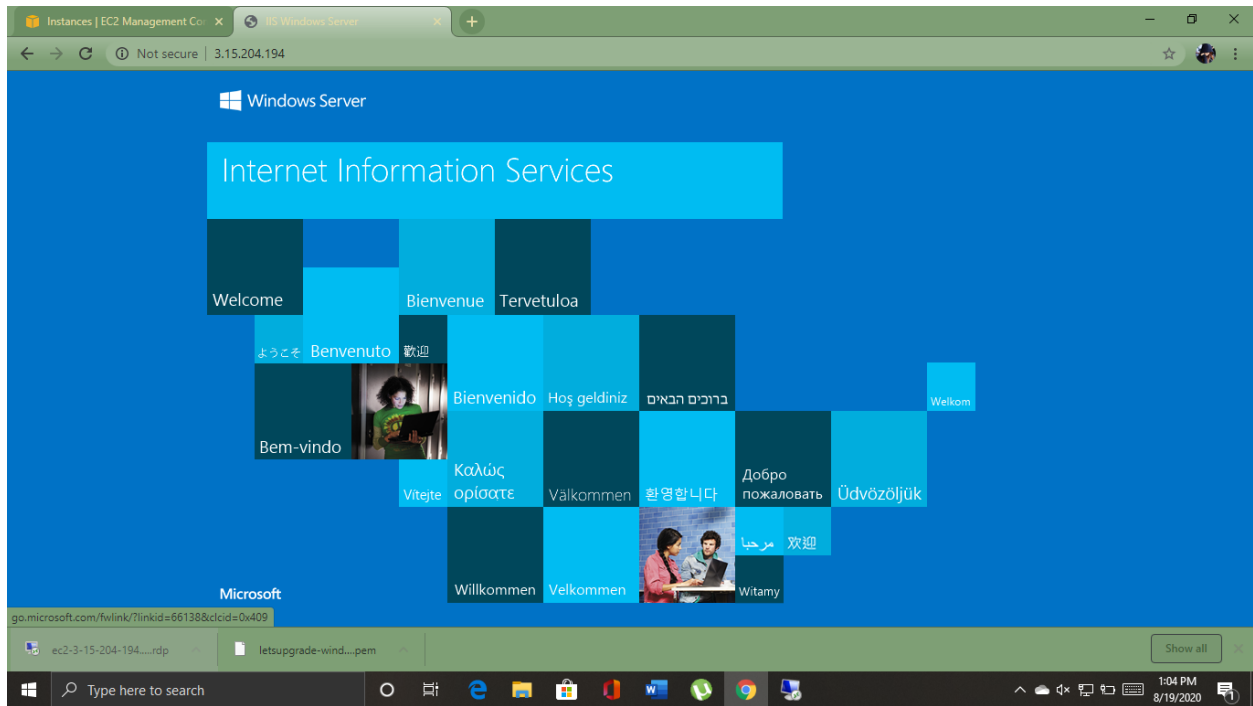




Installing Windows server in launched machine using command shell(windows power shell)

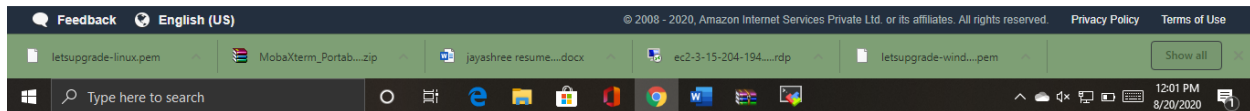
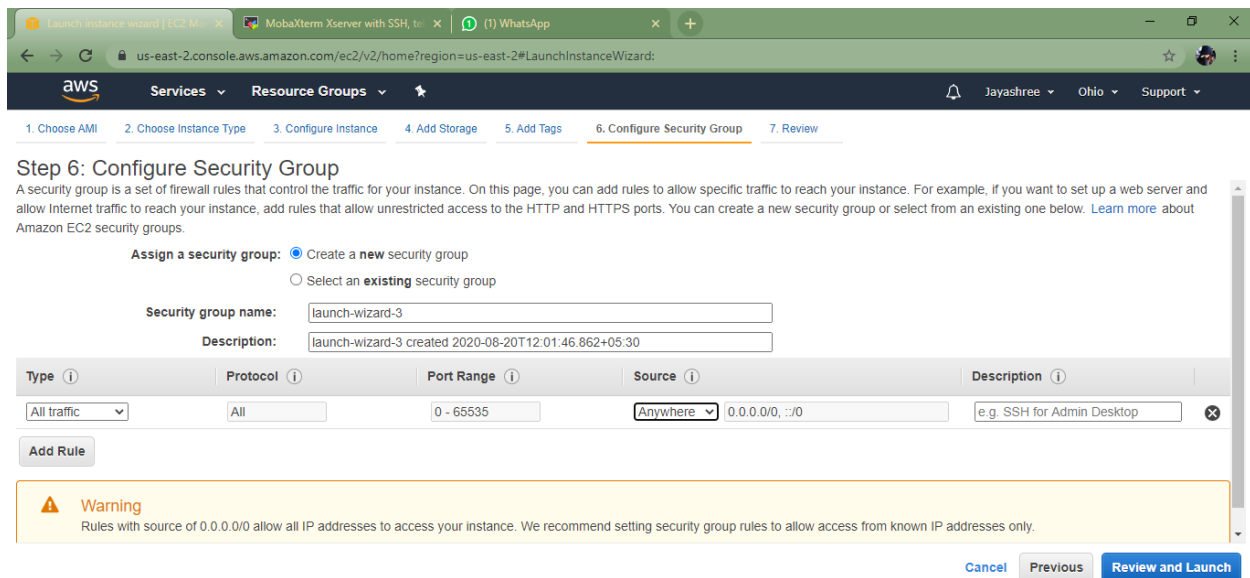
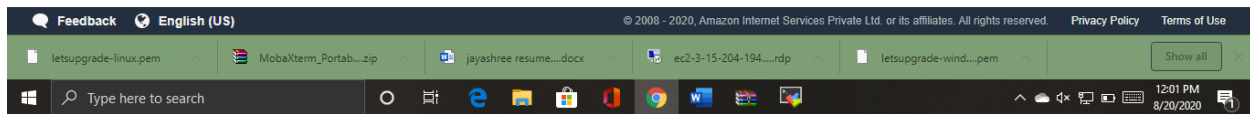
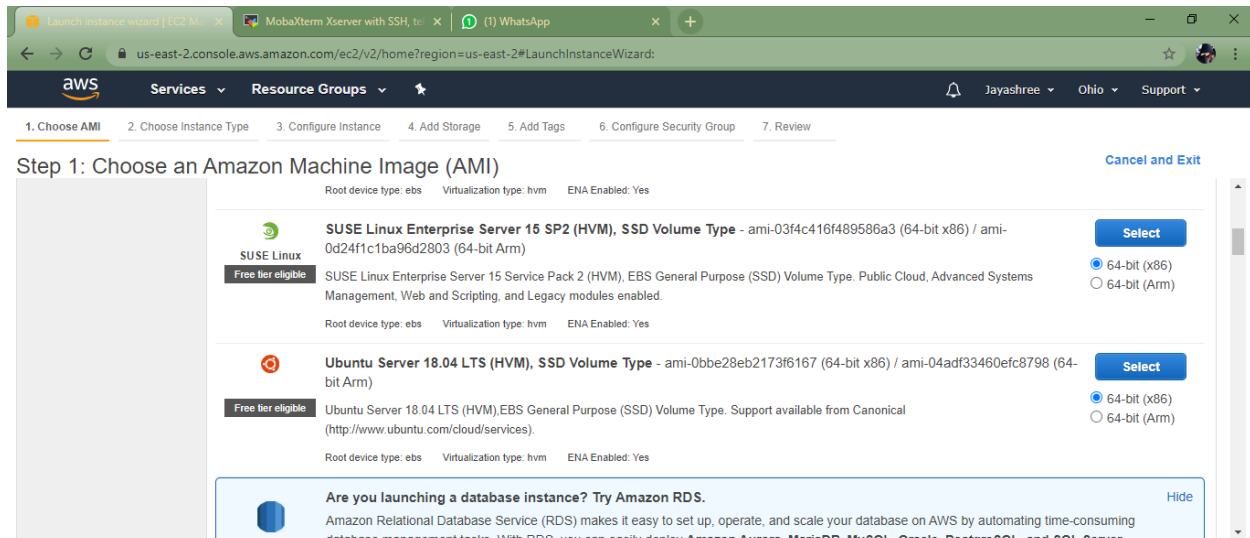


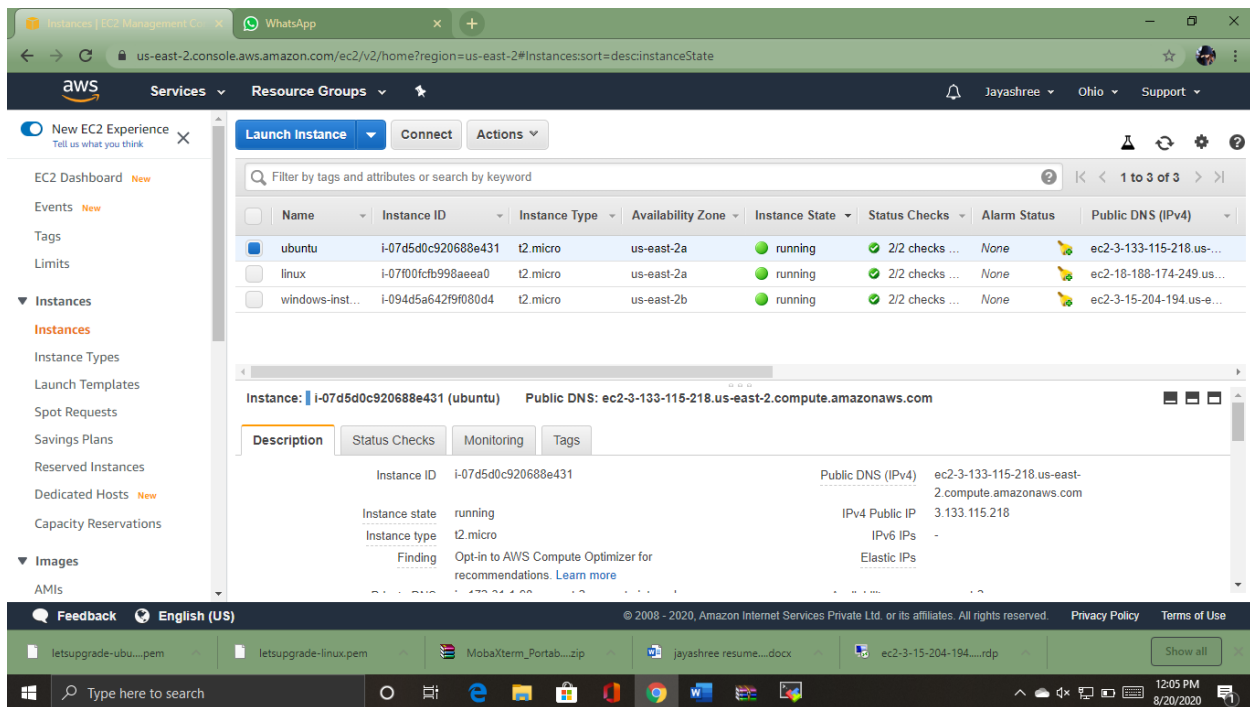
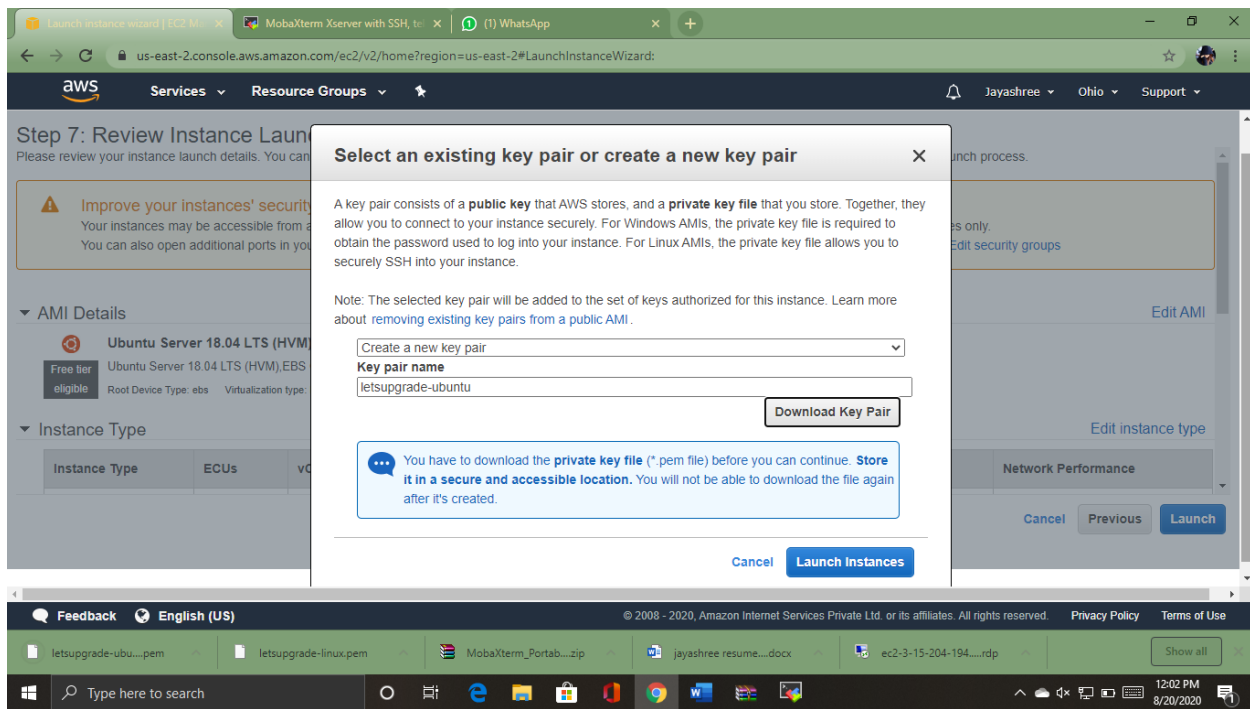
# Windows webserver successfully installed!



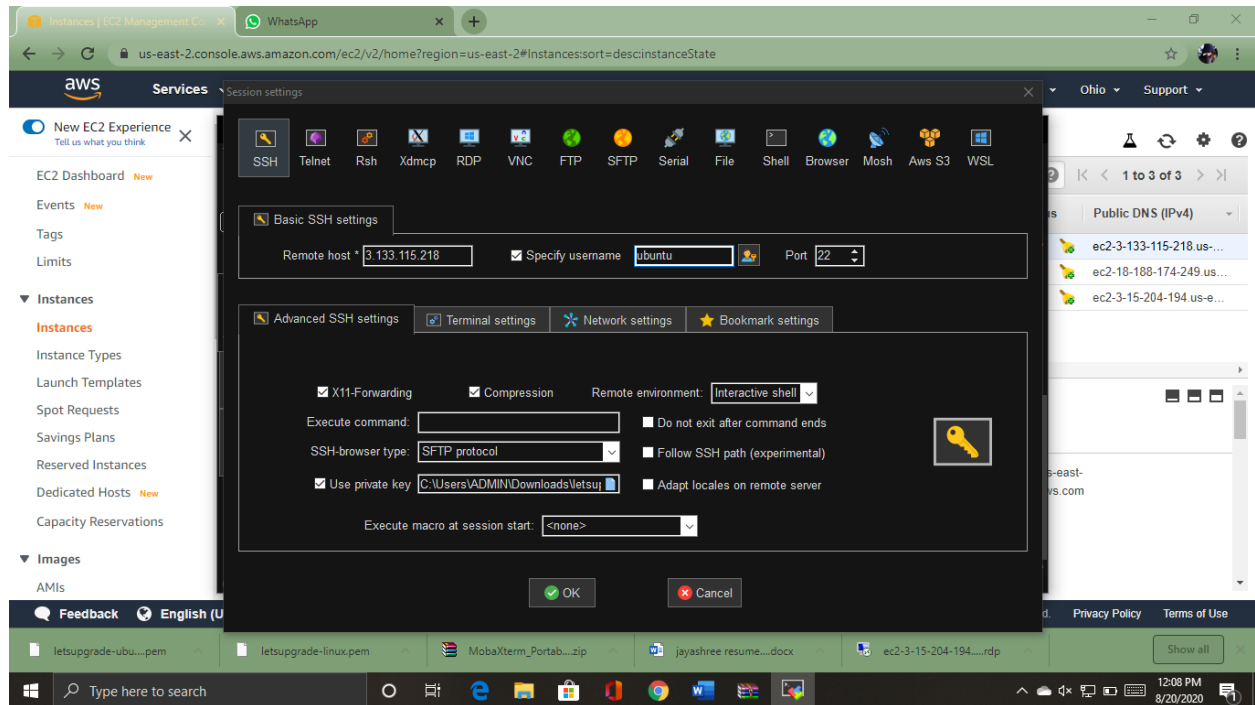
## Lab 2- Deploying webserver in Ubuntu

### Step 1 – launching instance

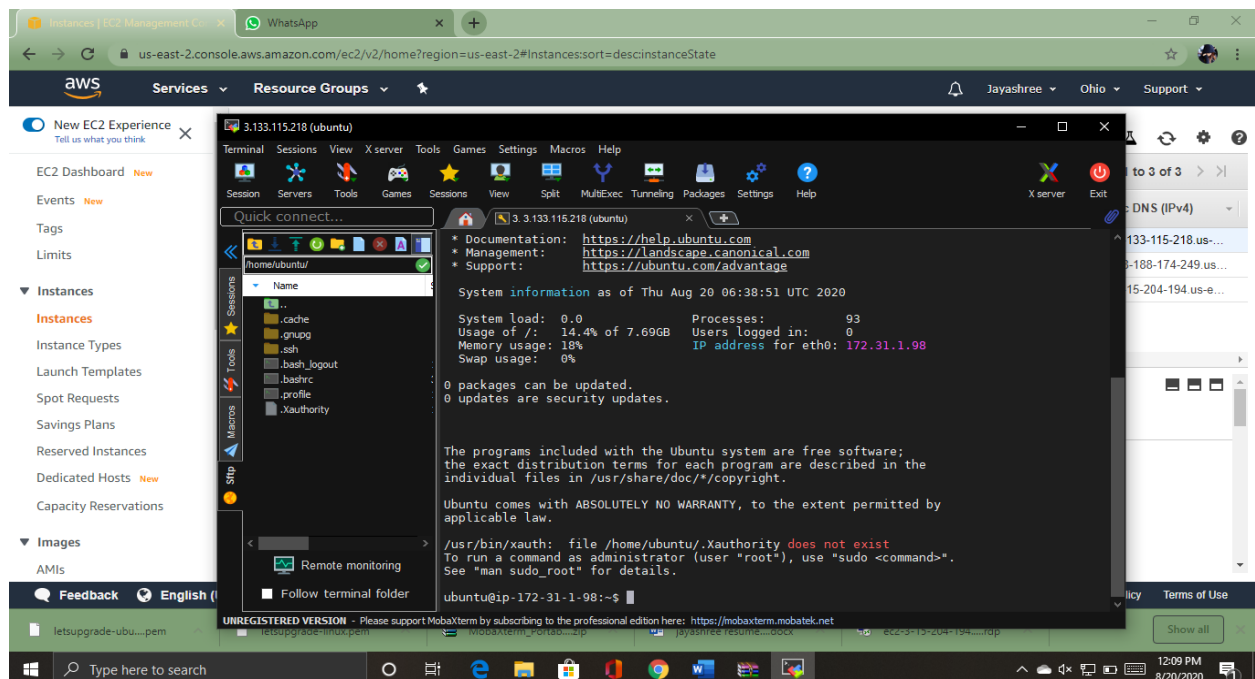




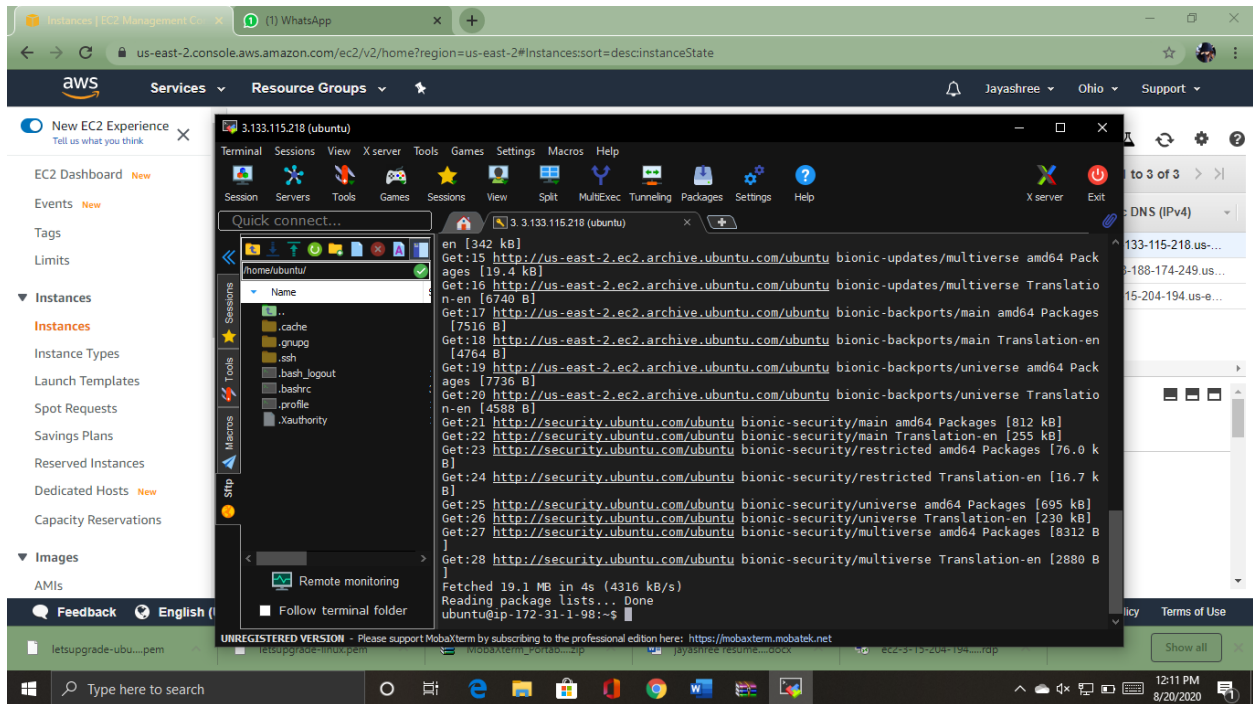
Step 2 – download the MobaXterm to connect the ubuntu server  
Configure the ubuntu server by giving host number, name and upload the keypair file.



Step 3: update the ubuntu server



## Step 4: install nginx in ubuntu machine



## Nginx web server successfully installed in Ubuntu machine

