

# Launching Windows instance in EC2 and hosting a web server

## 1.Choosing AMI (Microsoft Windows 2019 Base) :

Launch instance wizard | EC2 Ma x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#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 1: Choose an Amazon Machine Image (AMI)

Free tier eligible Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Are you launching a database instance? Try Amazon RDS. Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale your database on AWS by automating time-consuming 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 Select 64-bit (x86)

Windows Free tier eligible Microsoft Windows 2019 Datacenter edition. [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Microsoft Windows Server 2019 Base with Containers - ami-0860285a3eeb23175 Select 64-bit (x86)

Windows Free tier eligible Microsoft Windows 2019 Datacenter edition with Containers. [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Microsoft Windows Server 2019 with SQL Server 2017 Standard - ami-0b380d0ff25a6fc6 Select 64-bit (x86)

Windows Free tier eligible Microsoft Windows 2019 Datacenter edition, Microsoft SQL Server 2017 Standard. [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

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## 2.Choosing an instance(t2 micro) :

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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	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
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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### 3. Configuring Instance Details :

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1. Choose AMI

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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 instances1Launch into Auto Scaling Group

Purchasing optionRequest Spot instances

Networkvpc-e654f78d (default)Create new VPC

SubnetNo preference (default subnet in any Availability Zone)Create new subnet

Auto-assign Public IPEnable

Placement groupAdd instance to placement group

Capacity ReservationOpen

Domain join directoryNo directoryCreate new directory

IAM roleNoneCreate new IAM role

Shutdown behaviorStop

Stop - Hibernate behaviorEnable hibernation as an additional stop behavior

Enable termination protectionProtect against accidental termination

MonitoringEnable CloudWatch detailed monitoring

Cancel

Previous

Review and Launch

Next: Add Storage

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### 4. Adding Storage :

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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 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

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Review and Launch

Next: Add Tags

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5. ADD TAGS :

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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

This resource currently has no tags

Choose the Add tag button or [click to add a Name tag](#). Make sure your [IAM policy](#) includes permissions to create tags.

Add Tag

(Up to 50 tags maximum)

Cancel

Previous

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Next: Configure Security Group

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6. Configuring Security Group :

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1. Choose AMI

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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-1

Description:

launch-wizard-1 created 2020-08-17T16:00:36.120+05:30

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

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7. Review and Launch :

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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

Microsoft Windows Server 2019 Base - ami-0239d3998515e9ed1

Free tier eligible

Microsoft Windows 2019 Datacenter edition. [English]

Root Device Type: ebsVirtualization 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

Edit AMI

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

Edit instance type

Security Groups

Security group name

launch-wizard-1

Edit security groups

Activate Windows

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Cancel

Previous

Launch

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Windows taskbar icons

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 7: Review Instance Launch

AMI Details

Microsoft Windows Server 2019 Base - ami-0239d3998515e9ed1

Free tier eligible

Microsoft Windows 2019 Datacenter edition. [English]

Root Device Type: ebsVirtualization type: hvm

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Edit AMI

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

Edit instance type

Security Groups

Security group name

launch-wizard-1

Description

launch-wizard-1 created 2020-08-17T16:00:36.120+05:30

Edit security groups

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

Activate Windows

Go to Settings to activate Windows.

Cancel

Previous

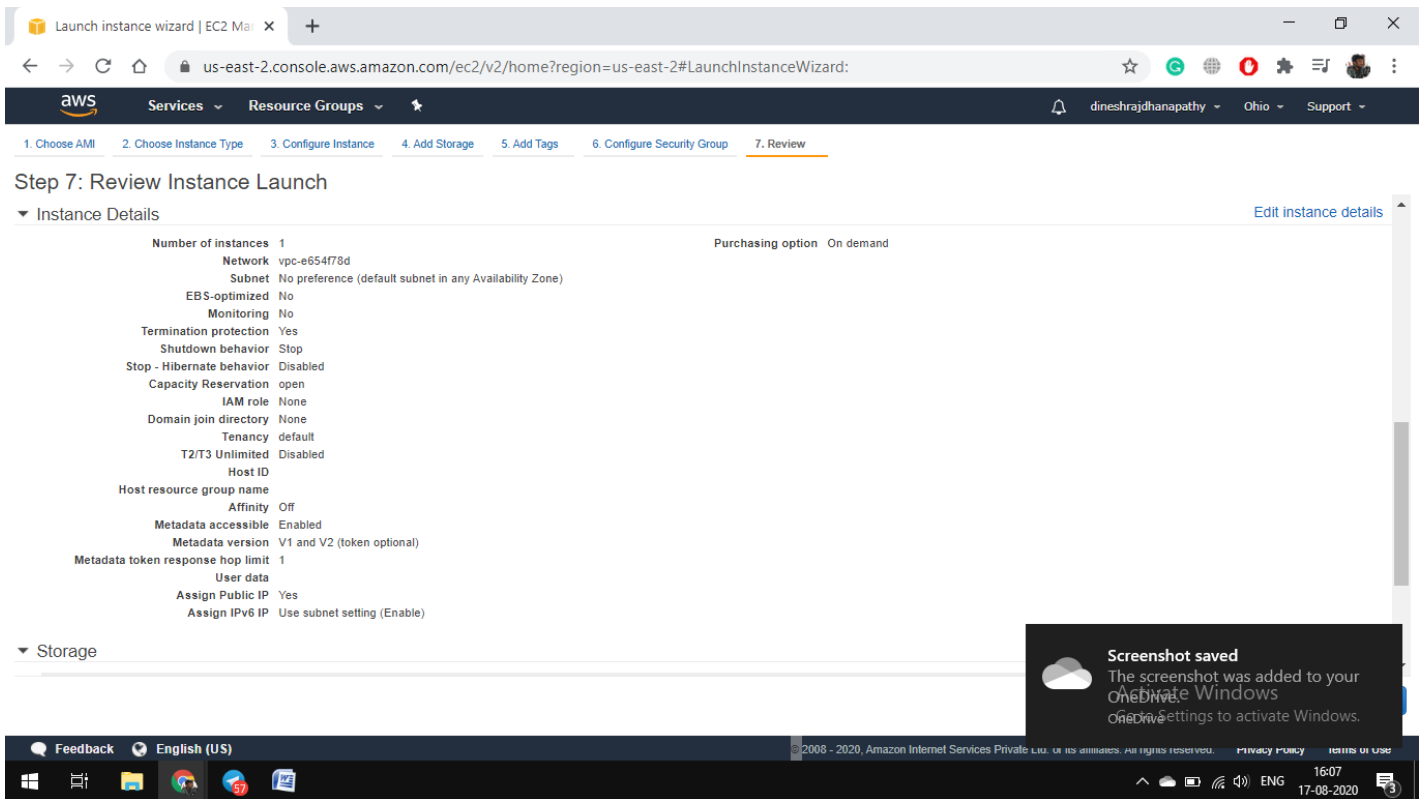
Launch

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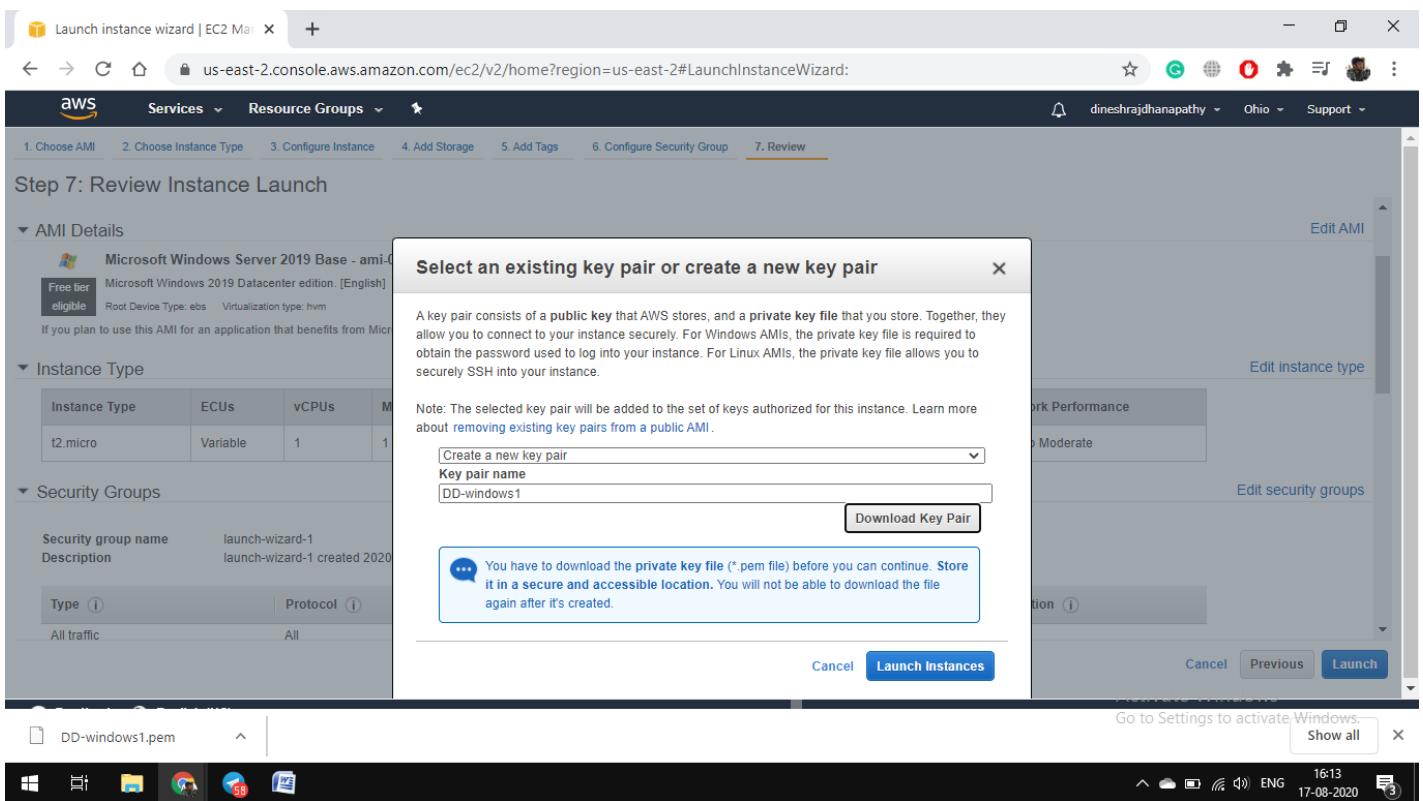
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Windows taskbar icons

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## 8. Key Pair :



## 9. Initiated the instances:

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### Launch Status

✓ Your instances are now launching  
The following instance launches have been initiated: [i-01a3d476ad93f6ac4](#) View launch log

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 Windows instance
- Learn about AWS Free Usage Tier
- Amazon EC2: User Guide
- Amazon EC2: Microsoft Windows Guide
- Amazon EC2: Discussion Forum

While your instances are launching you can also

<https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:search=i-01a3d476ad93f6ac4;sort=instanceId>

DD-windows1.pem

Activate Windows  
Go to Settings to activate Windows.  
Show all

16:16  
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## 10. Waiting for a few seconds till instance comes into running state :

Instances | EC2 Management Co x +

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:search=i-01a3d476ad93f6ac4;sort=instanceId

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New EC2 Experience  
Tell us what you think

EC2 Dashboard New

Events New

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Images

AMIs

Elastic Block Store

Launch Instance Connect Actions

search: i-01a3d476ad93f6ac4 Add filter

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs
DDwindows	i-01a3d476ad93f6ac4	t2.micro	us-east-2c	running	2/2 checks ...	None	ec2-18-191-47-198.us-...	18.191.47.198	-

Instance: i-01a3d476ad93f6ac4 (DDwindows) Public DNS: ec2-18-191-47-198.us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID i-01a3d476ad93f6ac4

Instance state running

Instance type t2.micro

Finding Opt-in to AWS Compute Optimizer for recommendations.

Public DNS (IPv4) ec2-18-191-47-198.us-east-2.compute.amazonaws.com

IPv4 Public IP 18.191.47.198

IPv6 IPs -

Elastic IPs

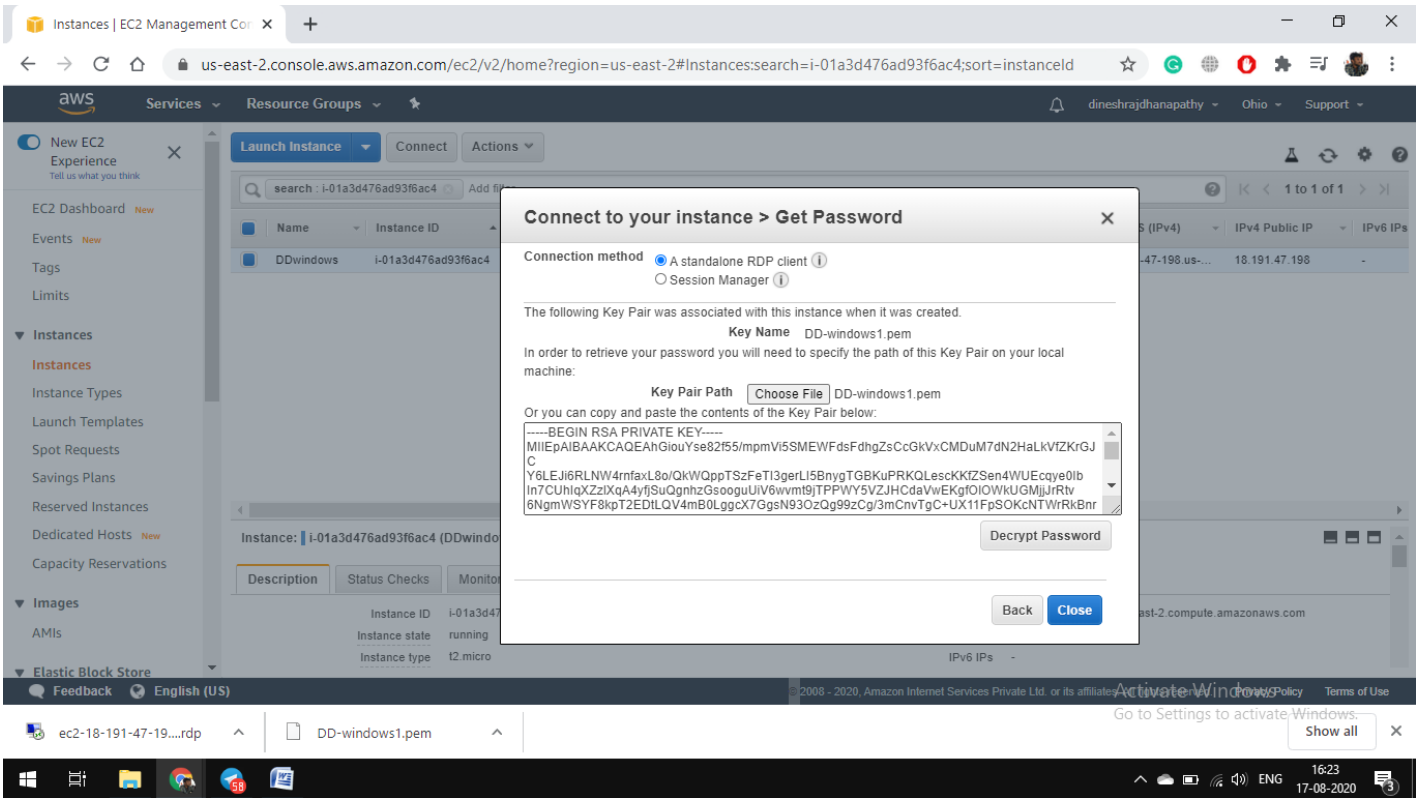
Copy to clipboard

Activate Windows  
Go to Settings to activate Windows.  
Show all

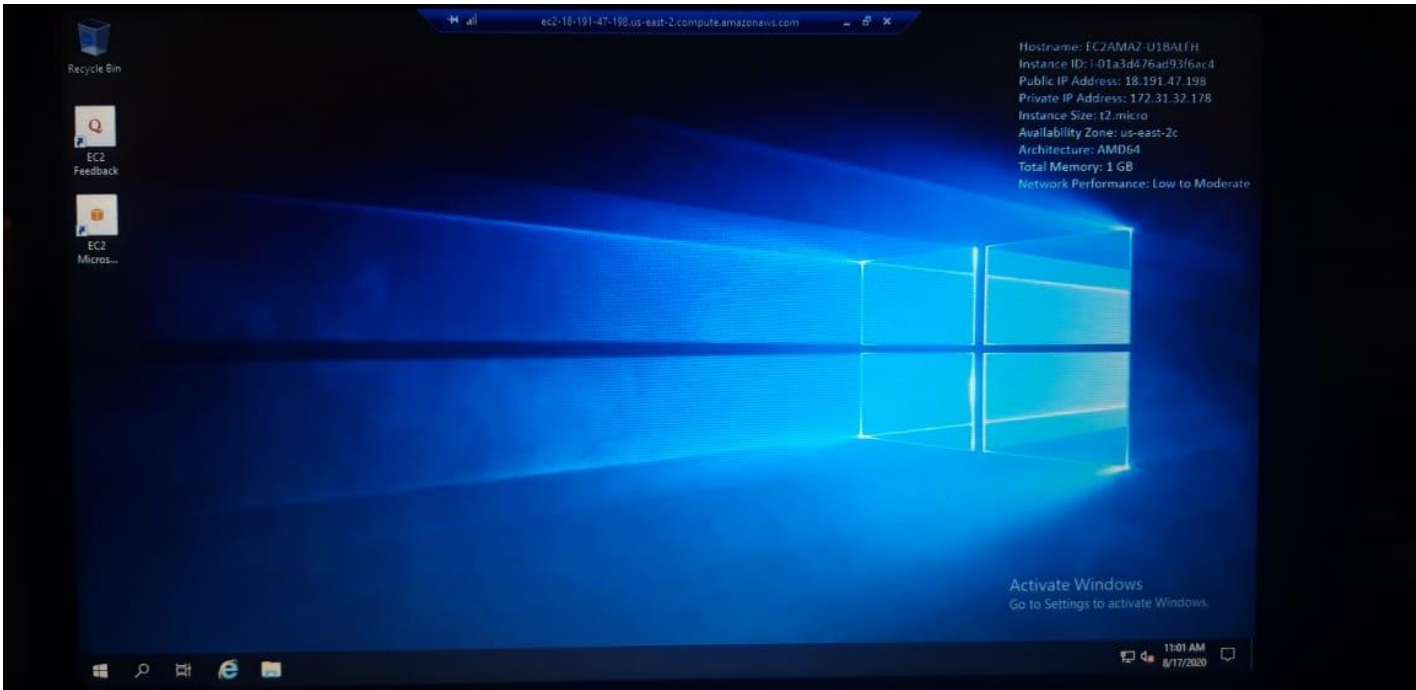
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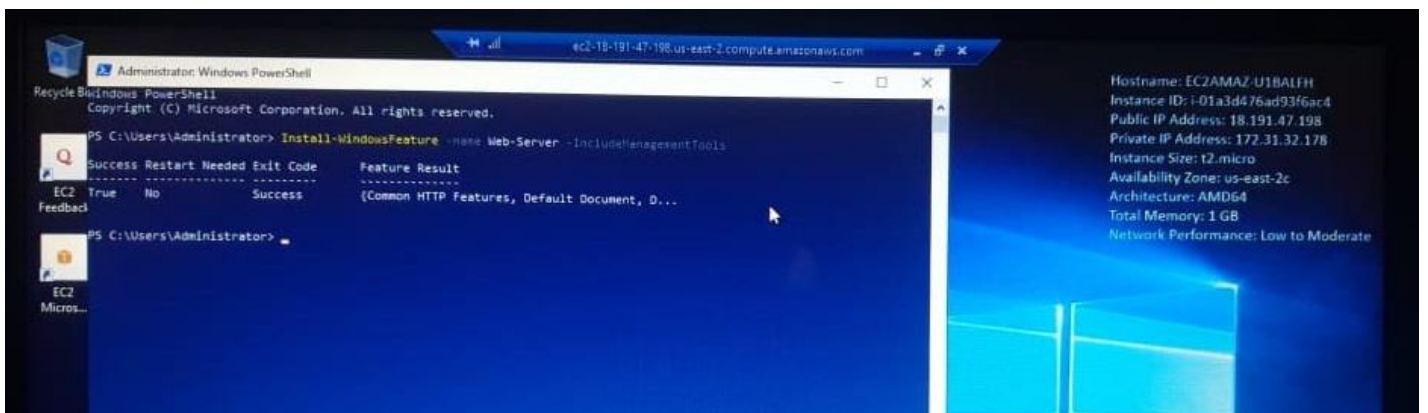
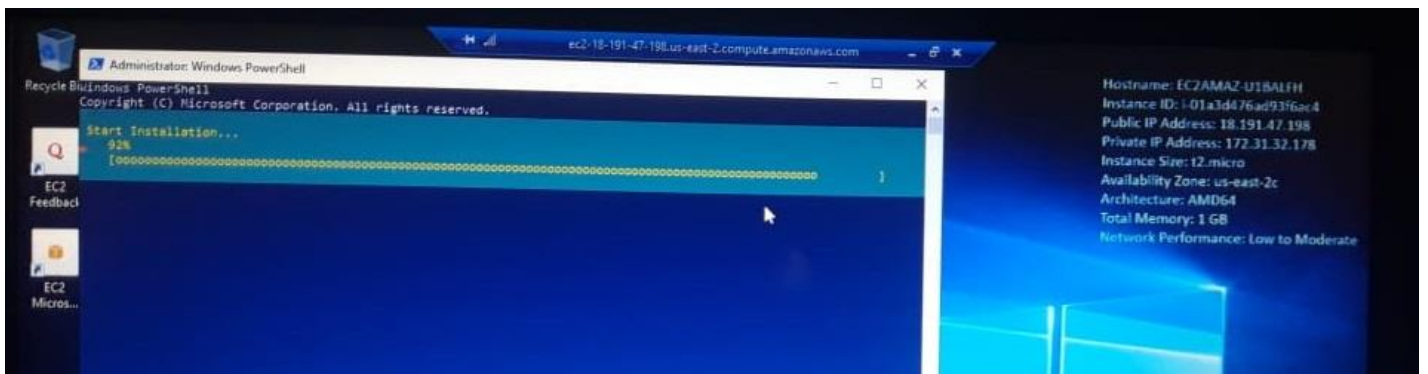
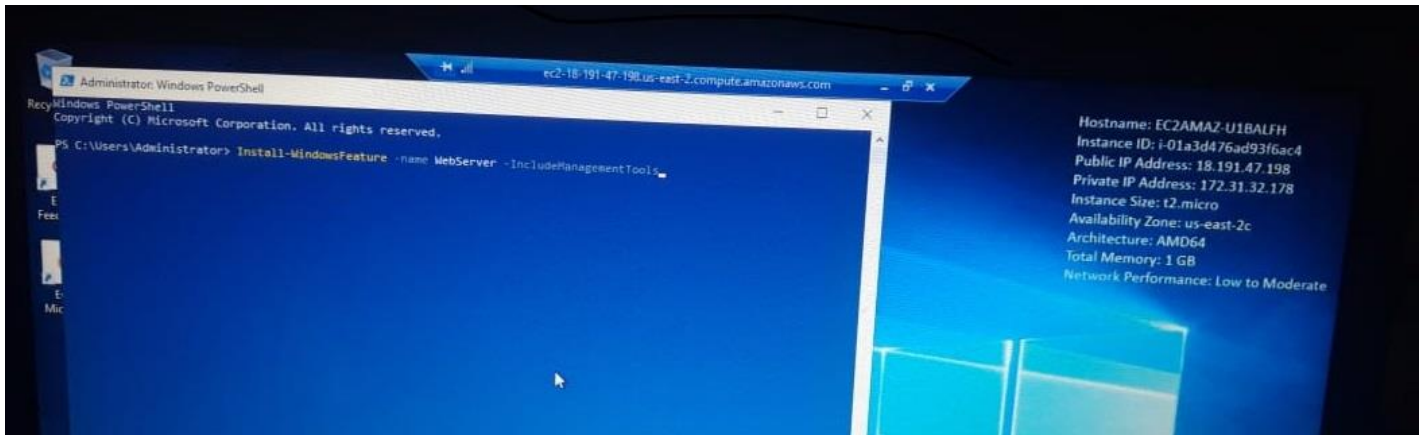
11.Obtaining password for instance :



12. Windows instance connected :



### 13. Running web server installation command :





14. Running IIS Windows server:

