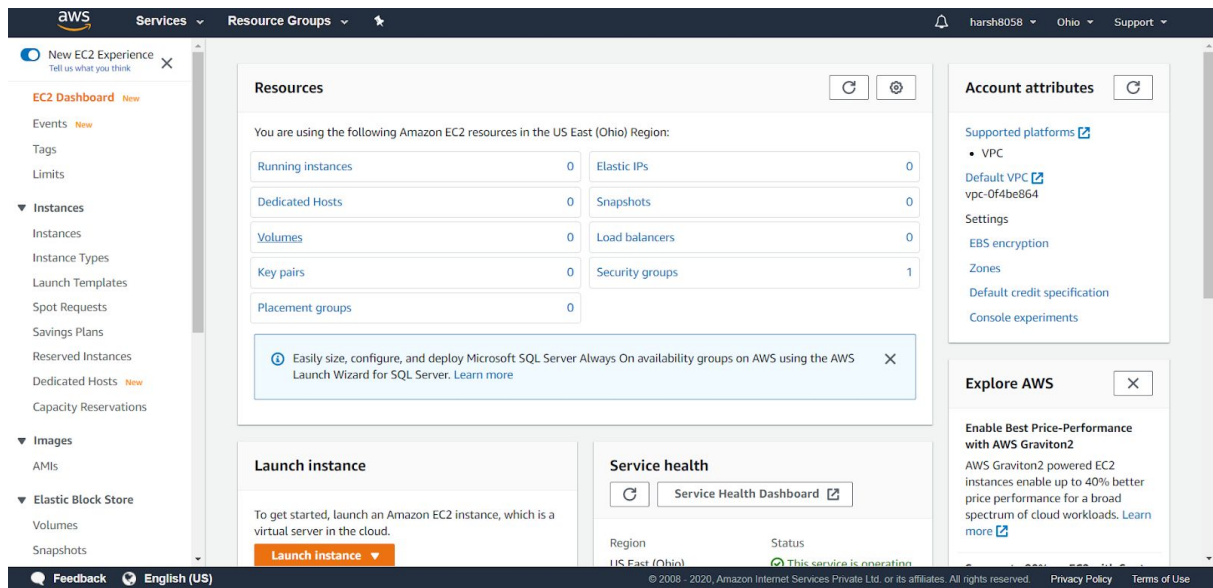HARSH VERMA // vermaharsh28@gmail.com

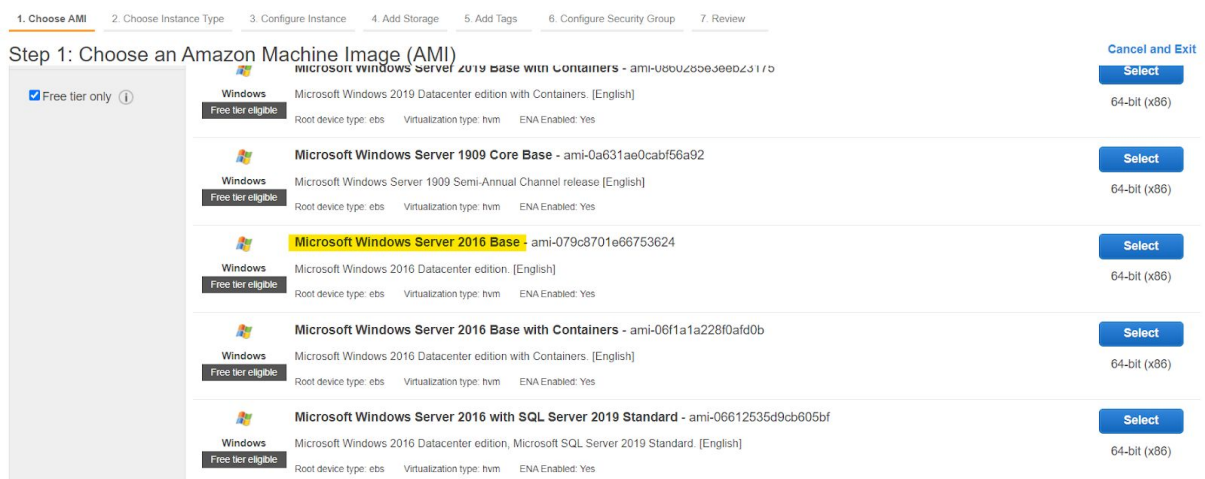## Deploying a Web server in windows instance :

STEP 1: Creating a verified AWS free trial account

STEP 2

Starting with EC2 (Elastic Compute Cloud) and launching a new instance (OS)

Under free tier section, we will choose windows 2016 base AMI

STEP 3

Check in for t2 micro instance type and move to next step

Instance type decides the memory (RAM) and no of CPU used for the instance , also instance type are highly flexible!

STEP 4

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 (i)	Device (i)	Snapshot (i)	Size (GiB) (i)	Volume Type (i)	IOPS (i)	Throughput (MB/s) (i)	Delete on Termination (i)	Encryption (i)
Root	/dev/sda1	snap-048535c56ee6c96e5	30	General Purpose SSD (gp2)	100 / 3000	N/A	☑	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

Choosing number of instance and hard disk space
Also selecting firewall rule for the instance

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 we 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 EC

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 2020-08-16T23:33:47.661+05:30

Type (i)	Protocol (i)	Port Range (i)	Source (i)	Description
All traffic ▾	All	0 - 65535	Custom ▾ 0.0.0.0/0	e.g. SSH fc

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.

STEP 5

Reviewing instance details and launching the instance

Also we need to create a new key pair for authenticity of instance
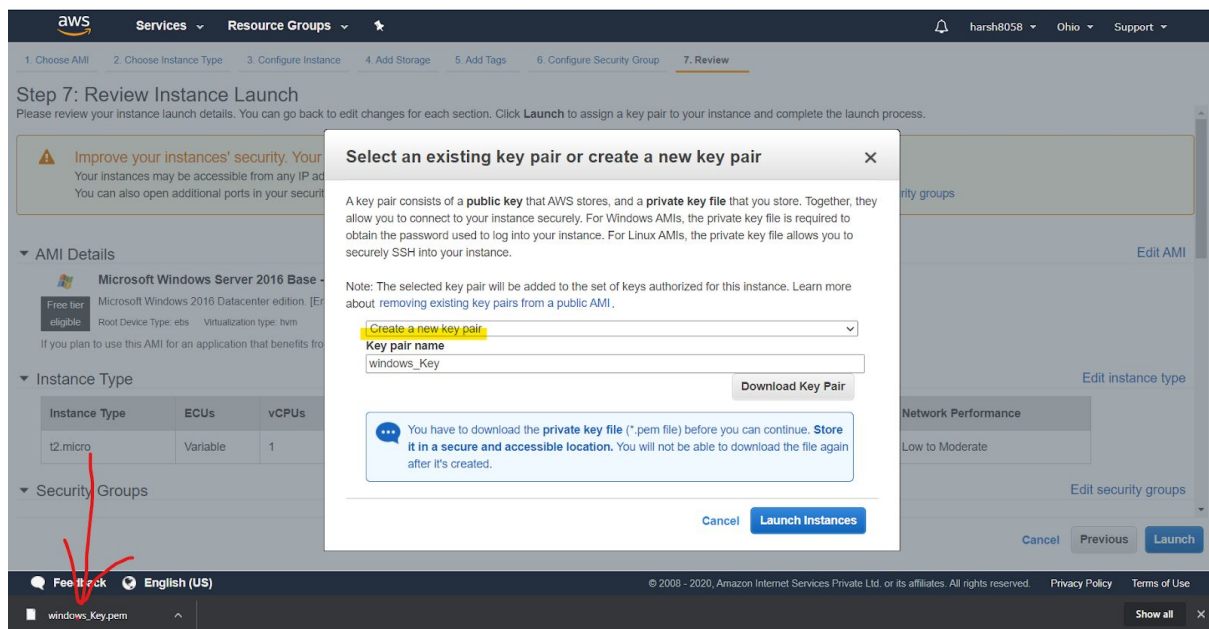
After downloading key pair instance is launched and almost ready for use

_____

Now , our instance is launched with public IP (13.59.192.18)

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TO CONNECT AND LAUNCH WEB SERVER:

STEP 1

Download Remote Desktop File ------------> which will be used to to start instance GUI window

Get Password -------------> this will help to decrypt password from key pair file that was downloaded earlier !

Connect to your instance > Get Password ✕

Connection method ● A standalone RDP client ⓘ
○ Session Manager ⓘ

The following Key Pair was associated with this instance when it was created.

Key Name windows_Key.pem

In order to retrieve your password you will need to specify the path of this Key Pair on your local machine:

Key Pair Path [Choose File] windows_Key.pem

Or you can copy and paste the contents of the Key Pair below:

```
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAjdOb8hMDNsk/oxD5Cj6C58WxXVH2CiI2EOrmZld8uoAKrvdMMBfiFWA9Leel
+faoIcmAZUwRhwMGekEMk+9rmzyNunviSyNLRoie5y43cbzrxtQzf9ODDdkhKALEE12Wa9JH6qII
u8KGLRIc3sM29B0NCuDb8iCG0tEZ9kfCmP074cbtVYk1etxmJZ/cpdQi/i97MeCQr7vzmXIJJYoI
iQMw+Tj1vM0y+pot3ZGNIbrwzicZsT81Imbc41yXEo861NFc8ondHFAhhi9+N2wxNgohtroZLwpQ
XuVKiuRkCpLYcOn1JstLCa2D+MhG9RZqg+oQbvXj0XfWniSVIw3x2QIDAQABAoIBAFBjgEIPCsRT
```

[**Decrypt Password**]

[Back] [**Close**]

Connect to your instance ✕

Connection method ● A standalone RDP client ⓘ
○ Session Manager ⓘ

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

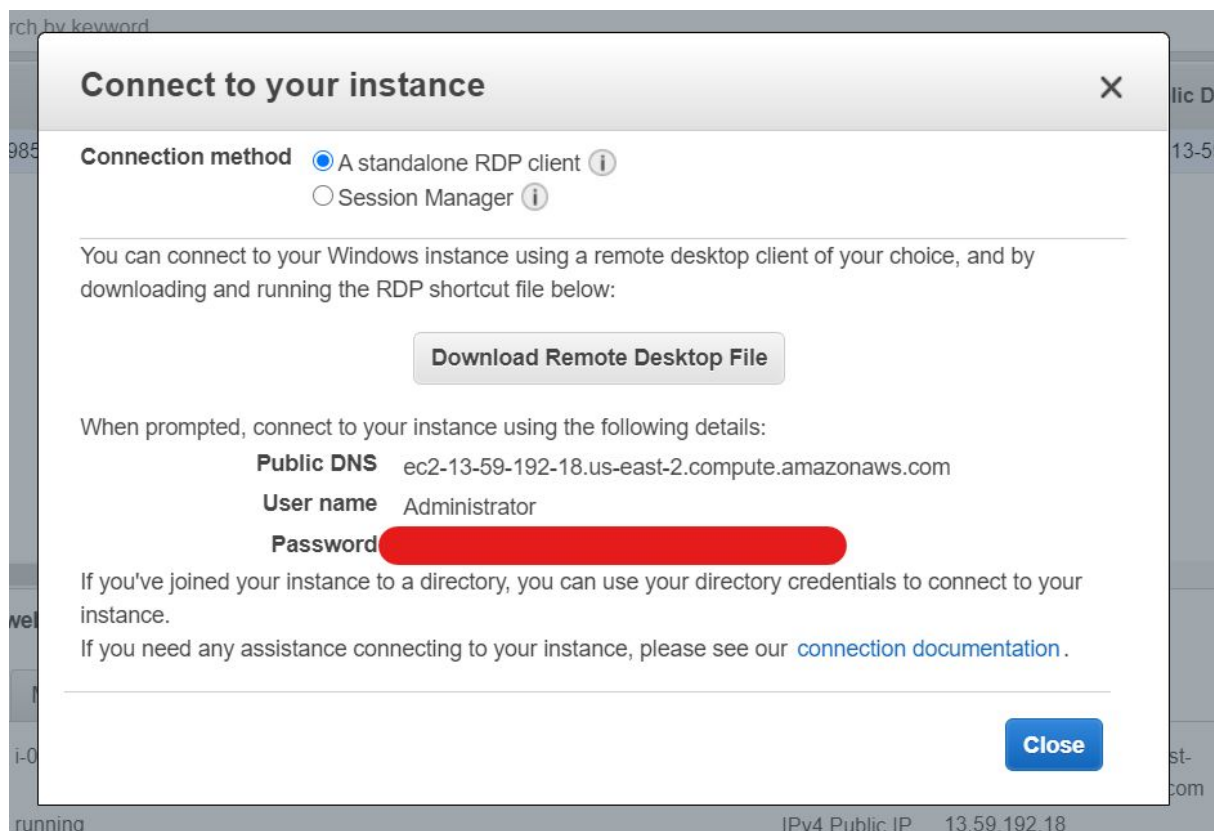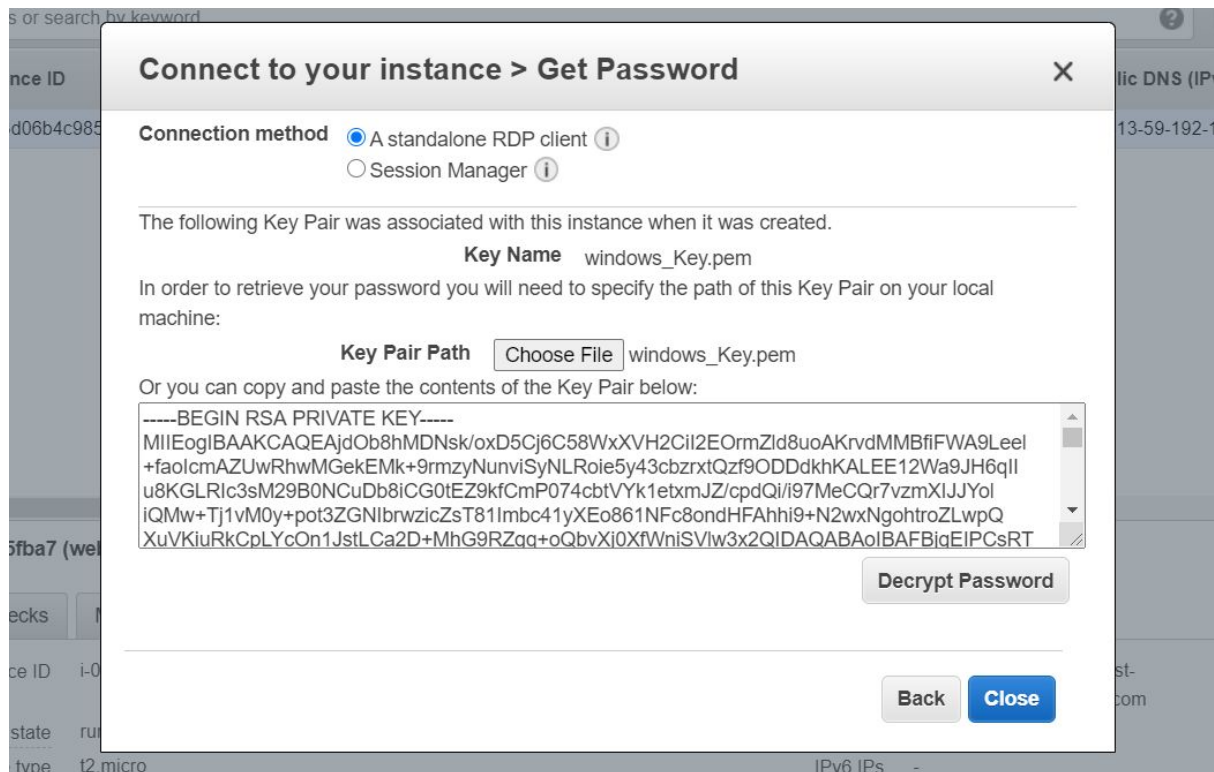[**Download Remote Desktop File**]

When prompted, connect to your instance using the following details:

Public DNS ec2-13-59-192-18.us-east-2.compute.amazonaws.com
User name Administrator
Password ████████████████████

If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

If you need any assistance connecting to your instance, please see our connection documentation.

[**Close**]

This password will be used to login admin user inside windows instance

earch by keyword

Windows Security   ✕   us Checks ⌄

4c985   2/2 checks ...

Enter your credentials

These credentials will be used to connect to
ec2-13-59-192-18.us-east-2.compute.amazonaws.com.

Administrator

●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●   👁

LAPTOP-CQOK3MLG\Administrator

☐ Remember me

More choices

| OK | Cancel | aws.com

Monitoring   Tags

Remote Desktop Connection   ✕

Connecting to:
ec2-13-59-192-18.us-east-2.compute.amazonaws.com

[████████████   ]   Cancel

Configuring remote session...
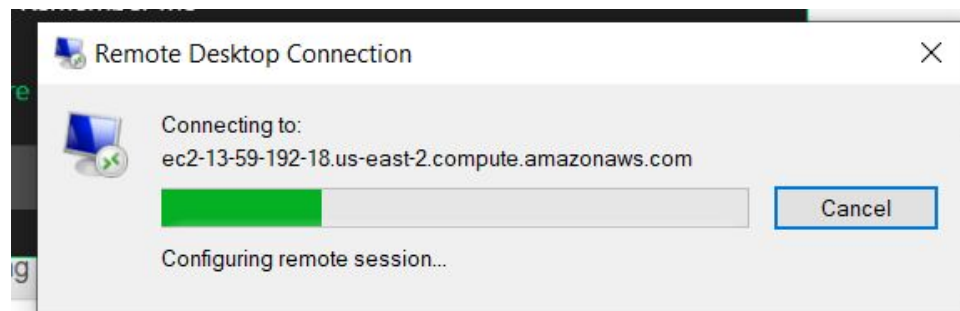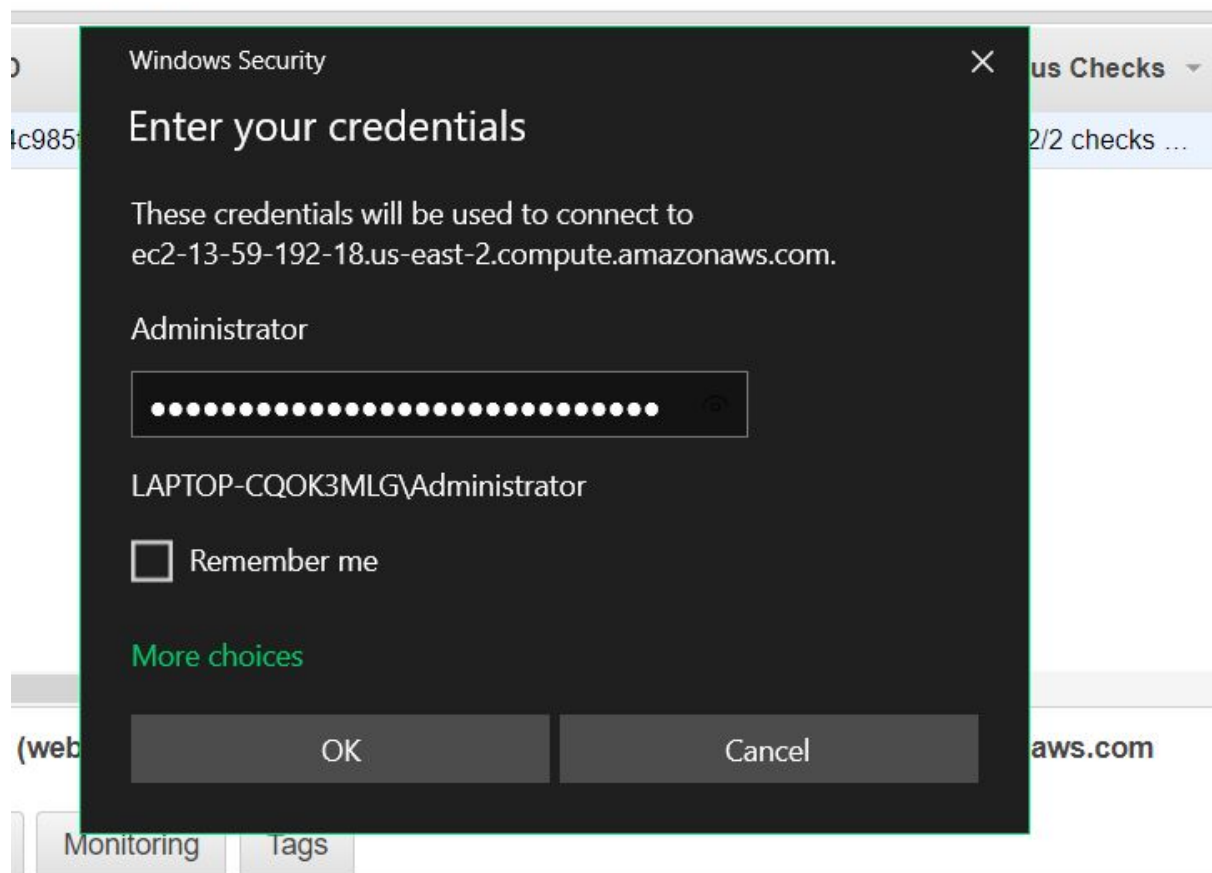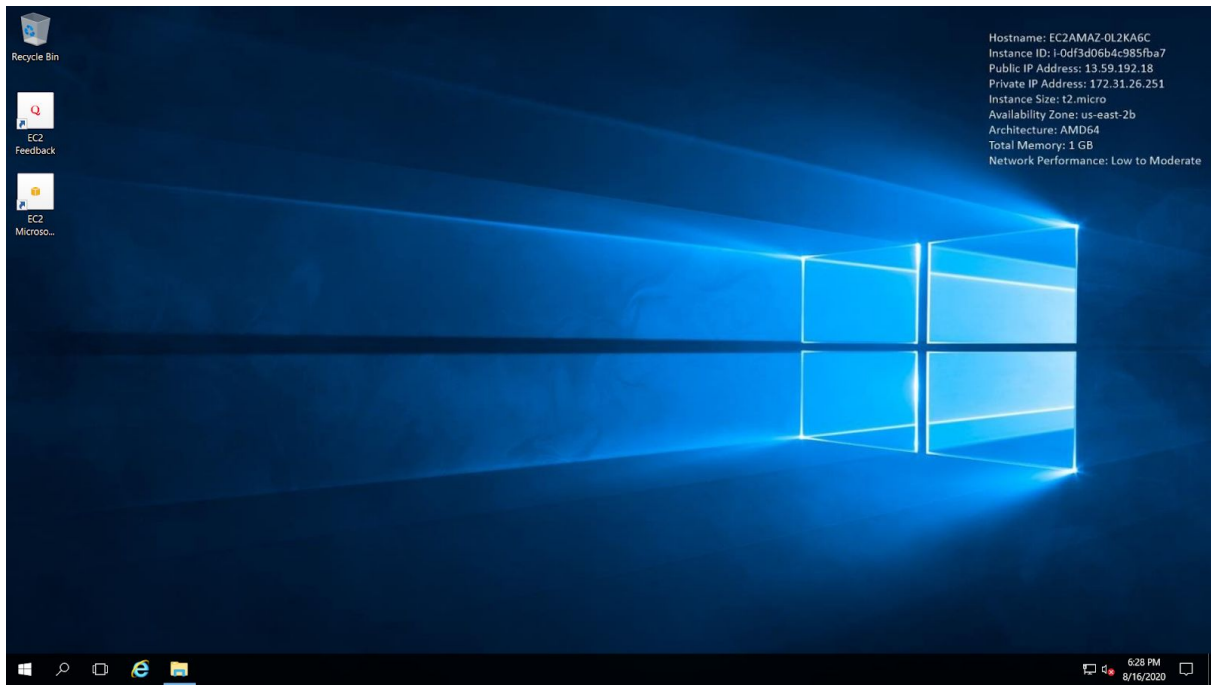
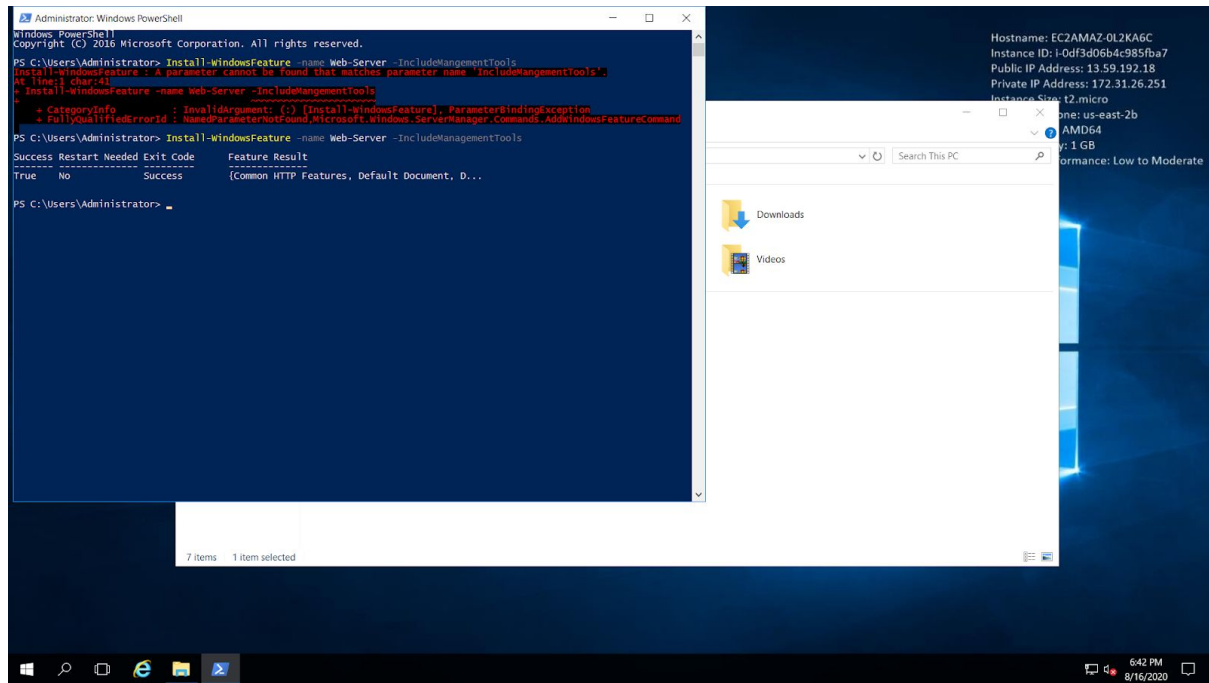Here's the instance launched with virtual private cloud (VPC)
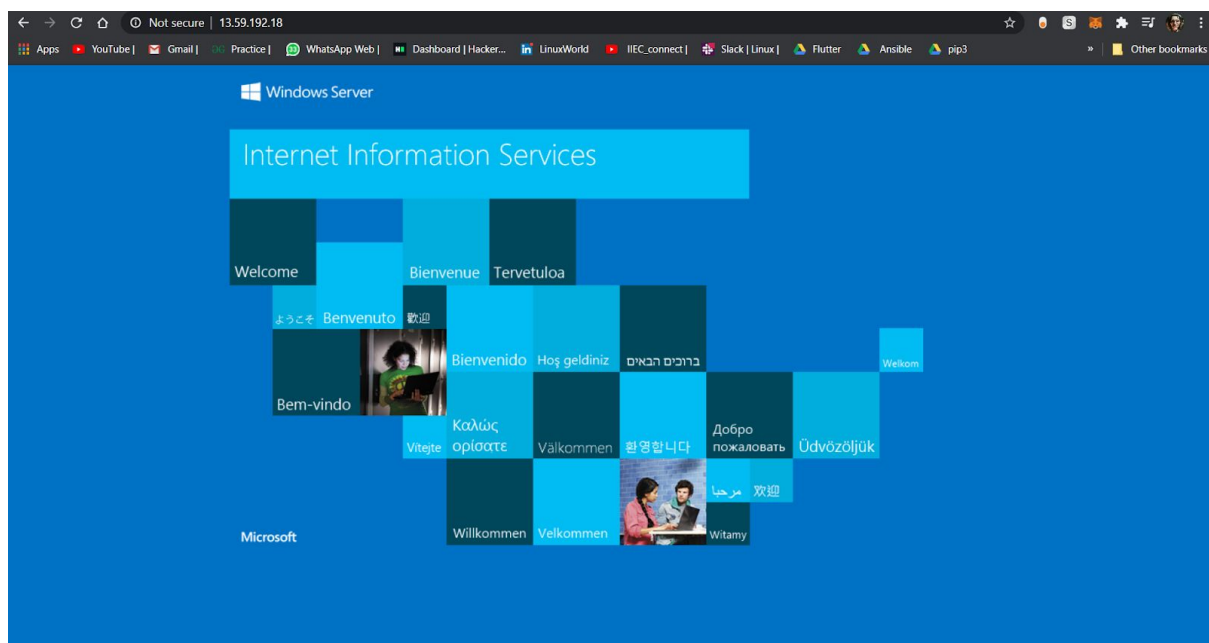
_____

LAUNCHING WEB SERVER :

STEP 1:

Installing IIS webserver using command line shell (windows power shell)

Command to be run :

Install-WindowsFeature -name Web-Server -IncludeManagementTools

After installation webserver will be deployed and can be viewed by public IP address 13.59.192.18 **with default https port 8080**

TASK DONE

 MAKE SURE THAT INSTANCE SHOULD BE TERMINATED AFTER USE TO AVOID UNNECESSARY CHARGES !!!

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