



Launching Windows Server In AWS

AWS Training Course for Solutions Architect Certification

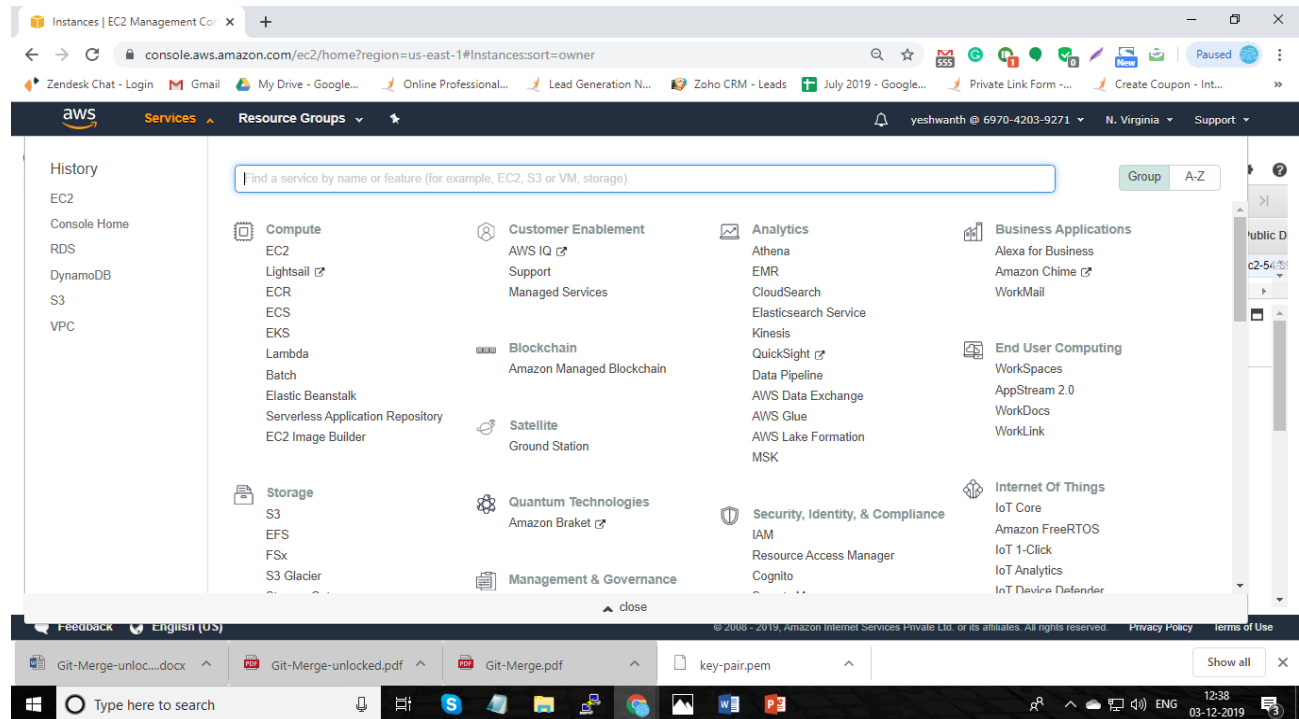
support@intellipaat.com

+91-7022374614

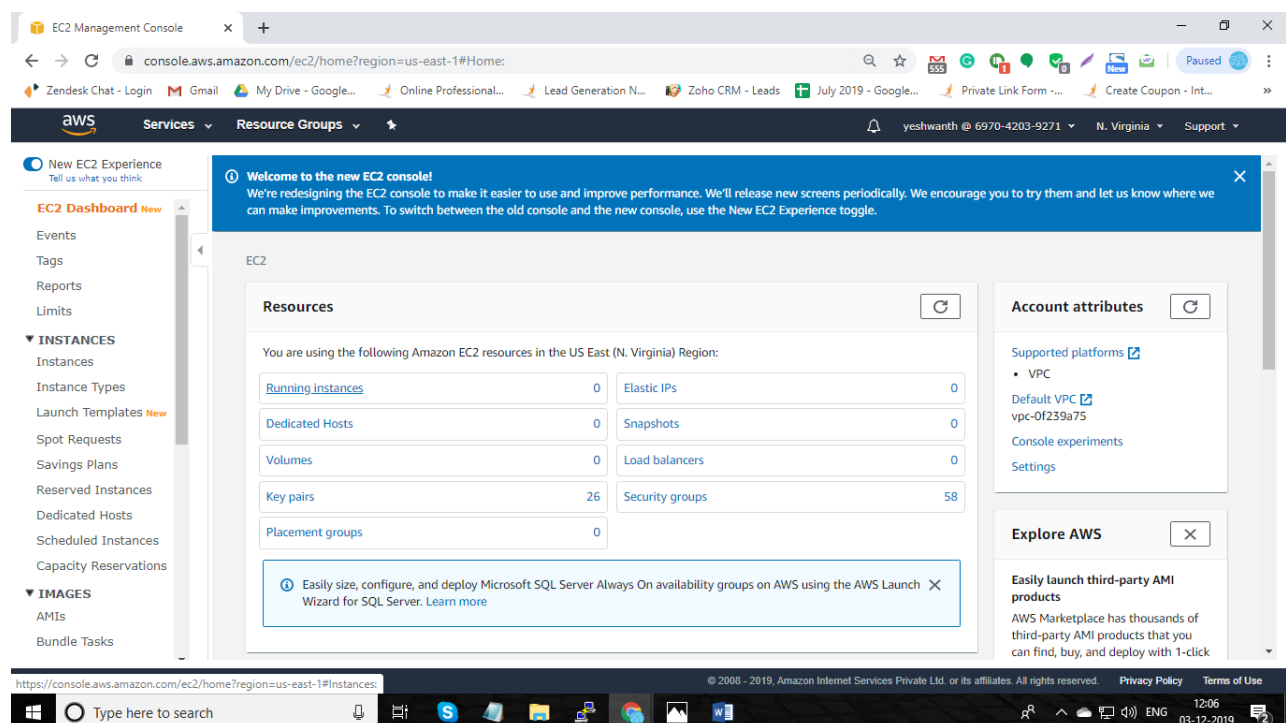
US: 1-800-216-8930(Toll Free)

Launching Instance

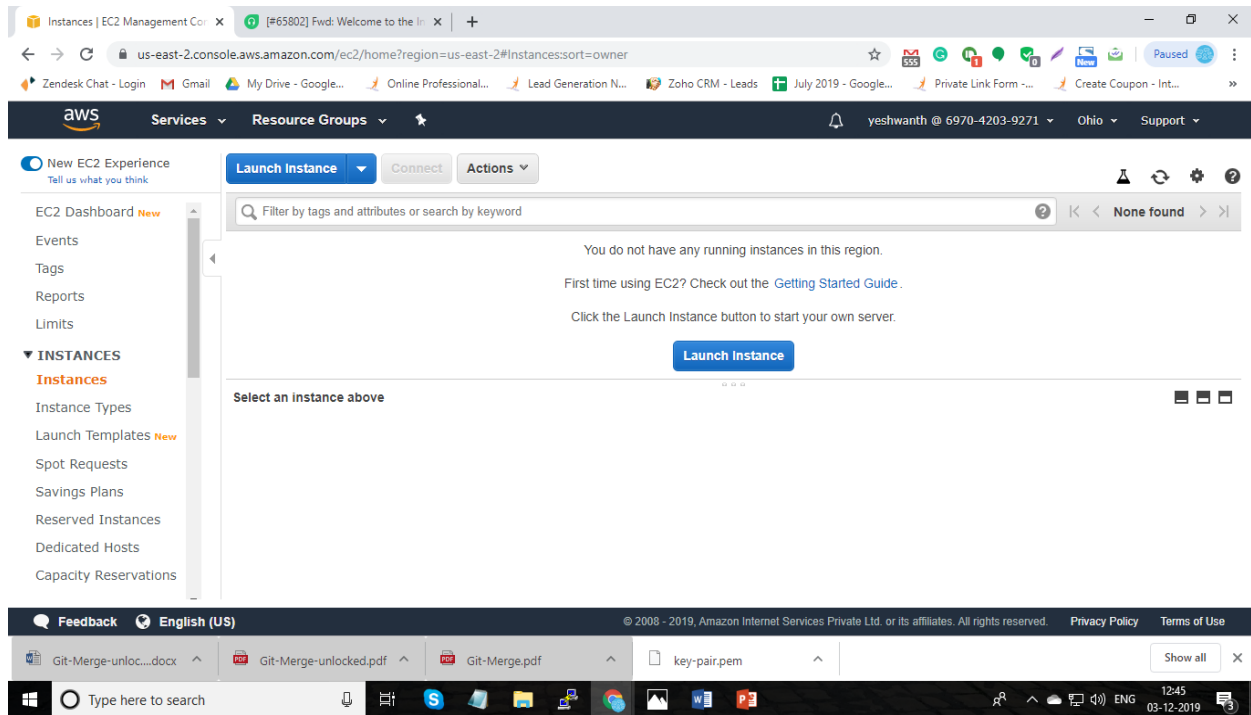
Step 1: For launching the instance, open AWS Console>>Services>>EC2



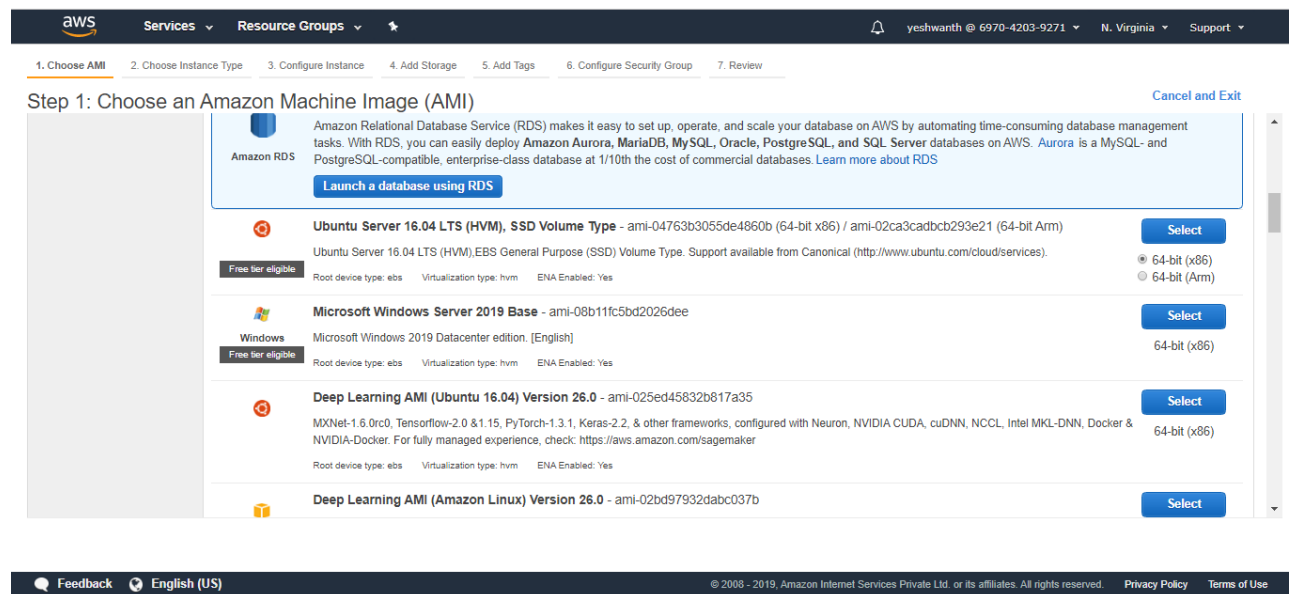
Step 2: Click on EC2, then you will get EC2 Dashboard



Step 3: Click on running instances



Step 4: Click on Launch instance and select your AMI (Amazon Machine Image) Microsoft Windows server 2019-base



Step 5: Select the type of instance (for free tier use t2.micro)

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 <small>Free tier eligible</small>	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

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Instance Details](#)

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Step 6: Click on Next: Configure Instance Details. Make the settings as default and click next: Add Storage

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: [Launch into Auto Scaling Group](#)

Purchasing option: ☐ Request Spot instances

Network: [Create new VPC](#)

Subnet: [Create new subnet](#)

Auto-assign Public IP:

Placement group: ☐ Add instance to placement group

Capacity Reservation: [Create new Capacity Reservation](#)

Domain join directory: [Create new directory](#)

IAM role: [Create new IAM role](#)


Shutdown behavior:

Enable termination protection: ☐ Protect against accidental termination

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Step 7: Here, you can change the volume as well as per requirement.


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Resource Groups

yeshwanth @ 6970-4203-9271
N. Virginia
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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-0618c1e46616dade5	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.

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Step 8: Click Next: Add Tags


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1. Choose AMI
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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
Name	Windows-server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

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Next: Configure Security Group

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Step 9: Next most important step, configuring security groups. you can also use already created security group by selecting 'Selecting an existing security group'.

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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:

Description:

Type	Protocol	Port Range	Source	Description
RDP	TCP	3389	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
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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Step 10: Finally click on Review and Launch

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

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-65, 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-08b11fc5bd2026dee

Free tier eligible 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](#)

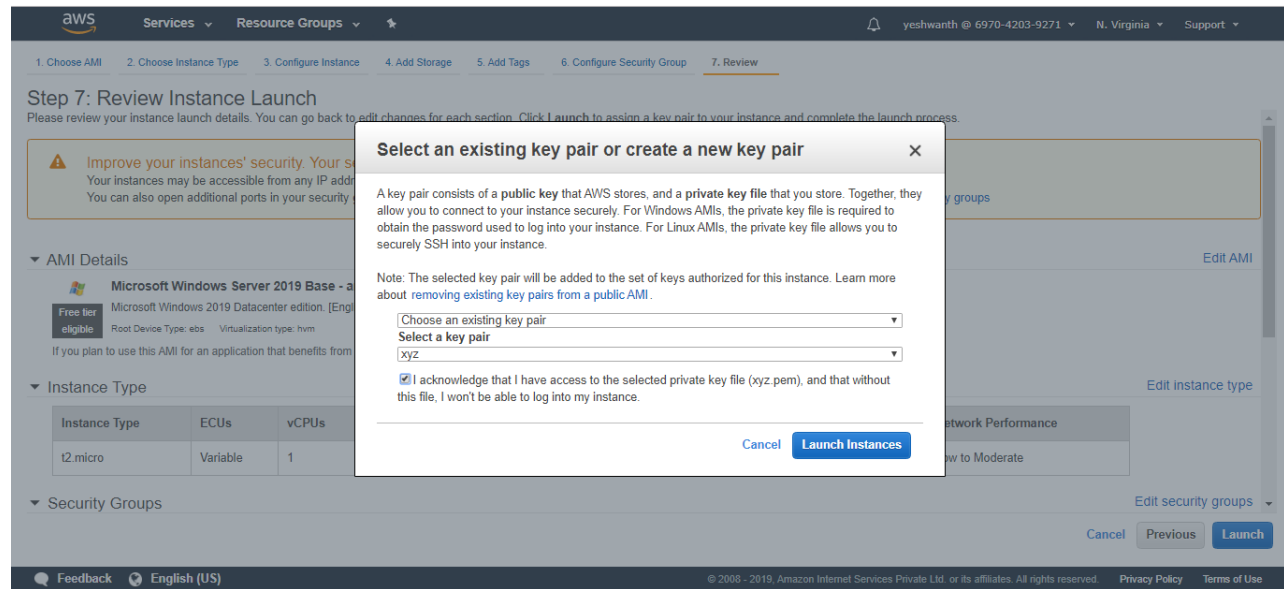
Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

▼ Security Groups [Edit security groups](#)

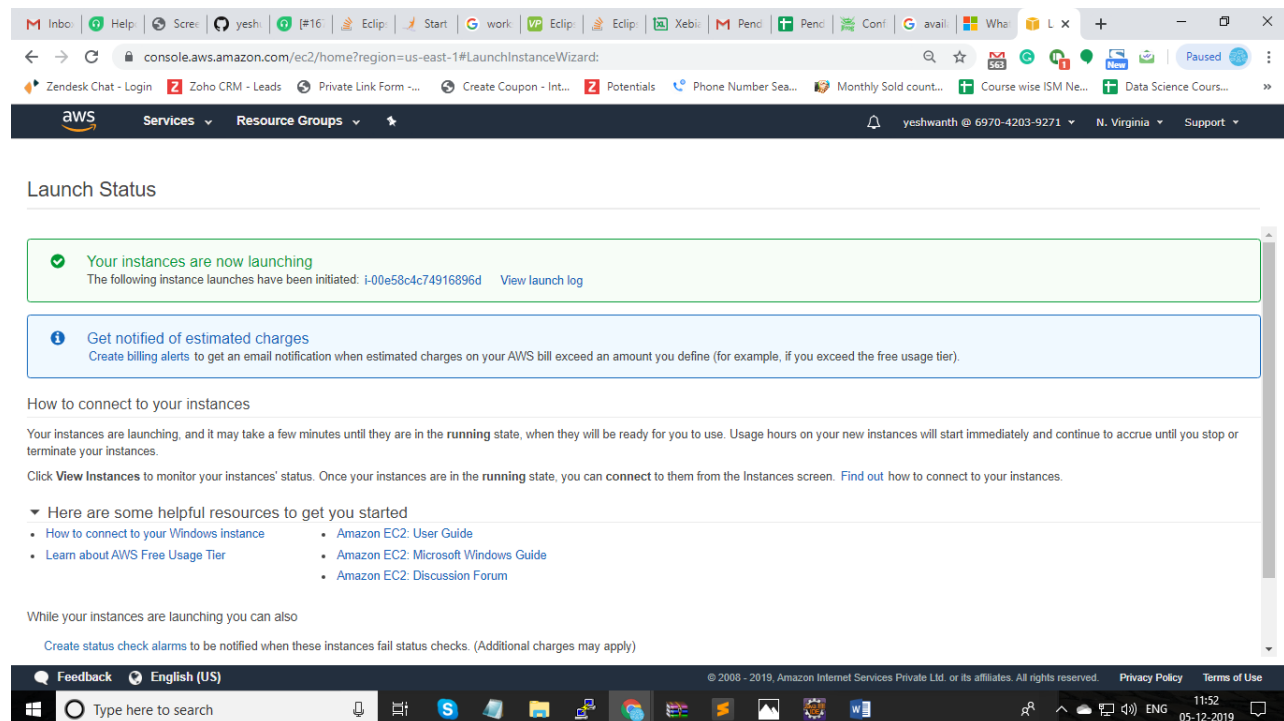
Cancel Previous **Launch**

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Step 11: Click On launch and select create a new key pair give the name of key pair and Download Key Pair.

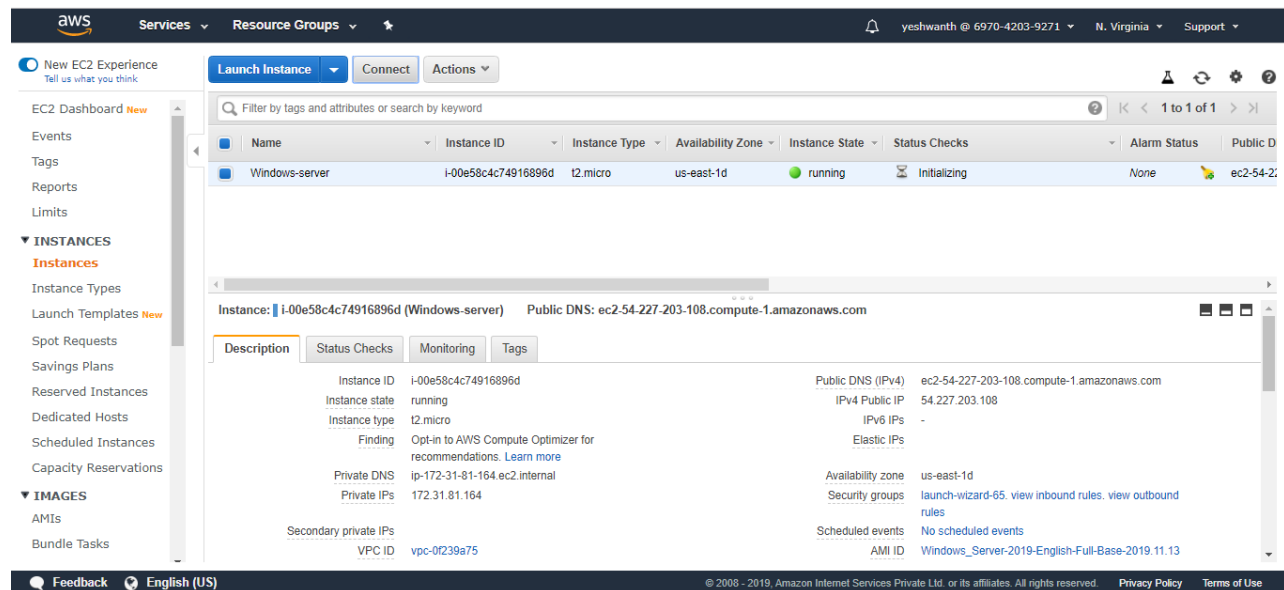


Step 12: After downloading, click on launch instance



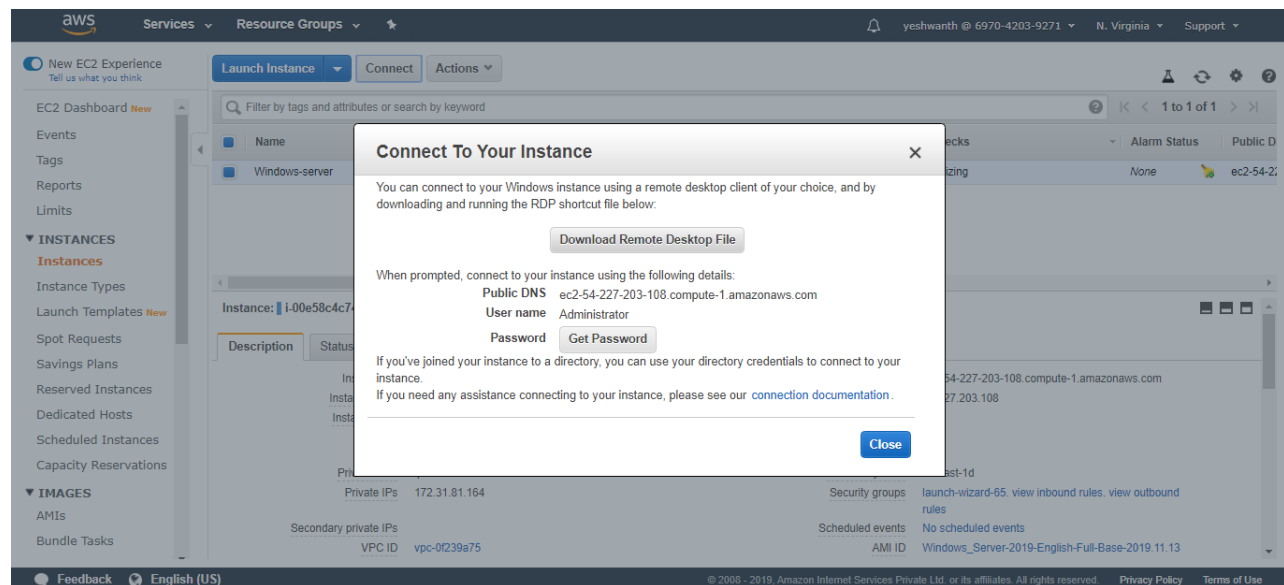
Close it and go back to ec2 dashboard

Step 13: Now, we have our instance it will take a while to get status as running.



The screenshot shows the AWS Management Console interface. The left sidebar contains navigation options like EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, and IMAGES. The main content area displays a table of EC2 instances. The instance 'Windows-server' (ID: i-00e58c4c74916896d) is shown in the 'running' state. Below the table, the instance details are expanded, showing the public DNS (ec2-54-227-203-108.compute-1.amazonaws.com), private DNS (ip-172-31-81-164.ec2.internal), and VPC ID (vpc-0f239a75).

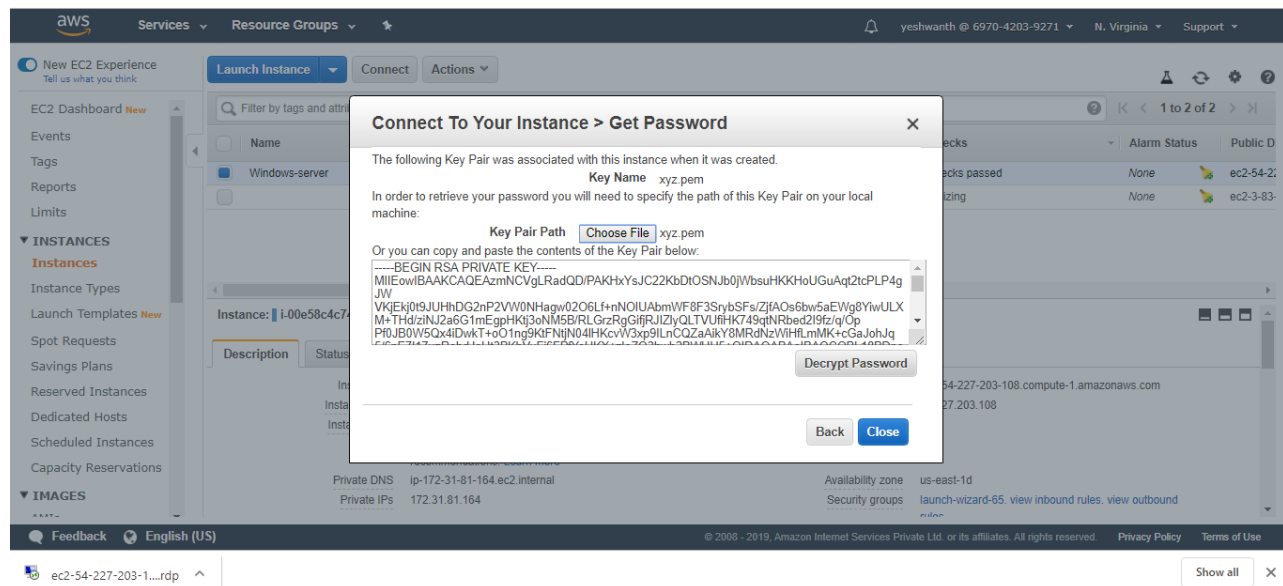
Step 14: Now instance is up and running, you can connect to it. First, click on connect button.



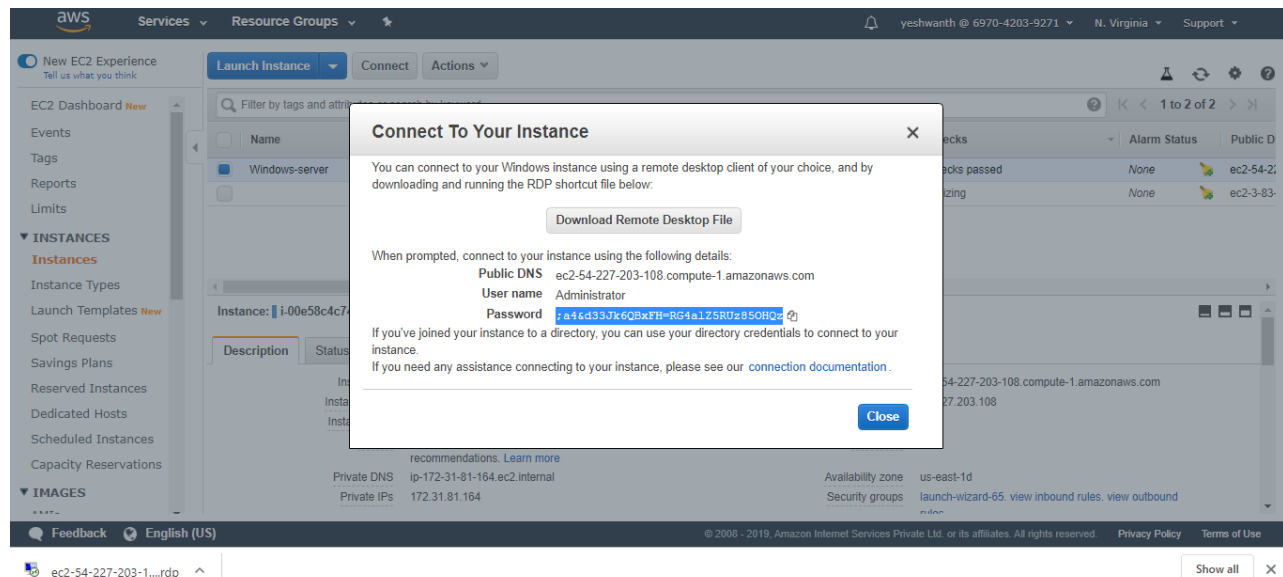
The screenshot shows the AWS Management Console interface with the 'Connect To Your Instance' dialog box open. The dialog provides instructions on how to connect to the instance using a remote desktop client. It includes a 'Download Remote Desktop File' button and a 'Get Password' button. The dialog also displays the Public DNS (ec2-54-227-203-108.compute-1.amazonaws.com) and the User name (Administrator).

Step 15: Download the RDP (Remote Desktop File) to your local system. Now, click on Get Password to get the password for our instance.

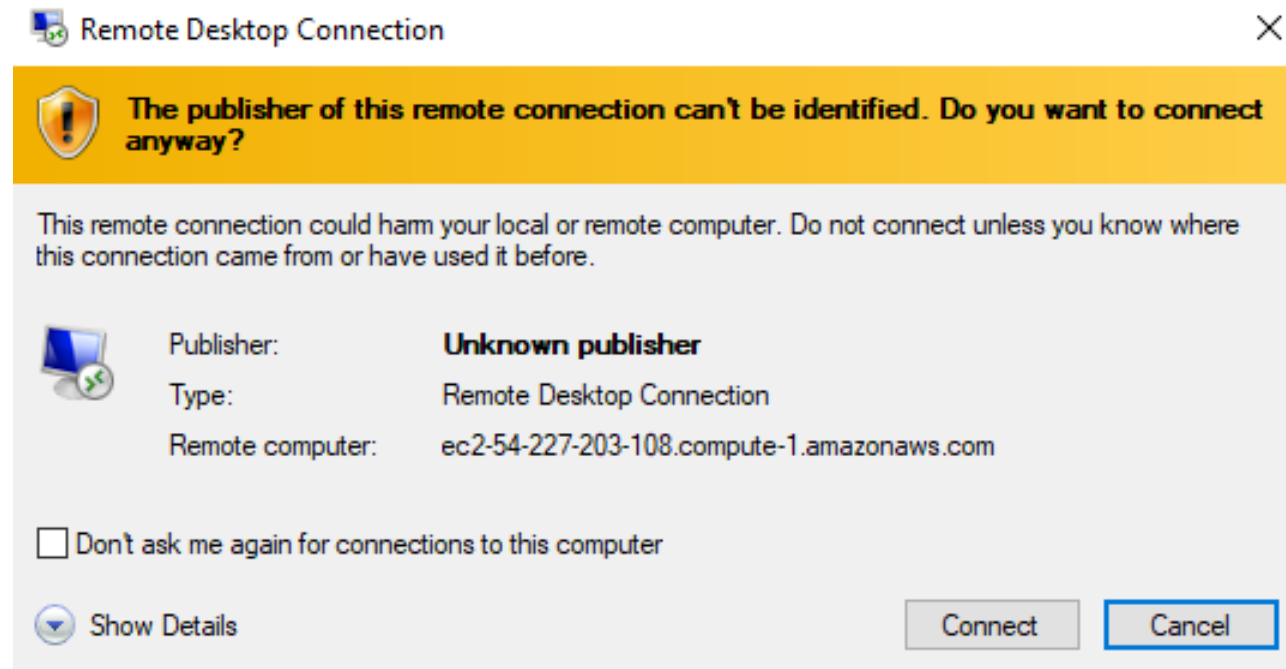
Note: It will take more than 5 minutes to get the get password page.

Step 16: Click on Get Password

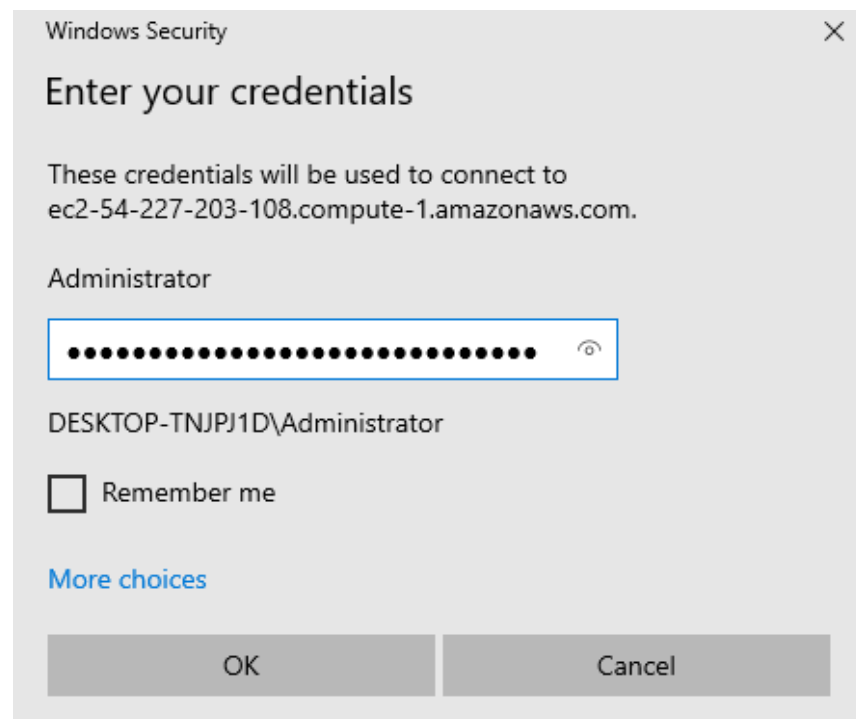
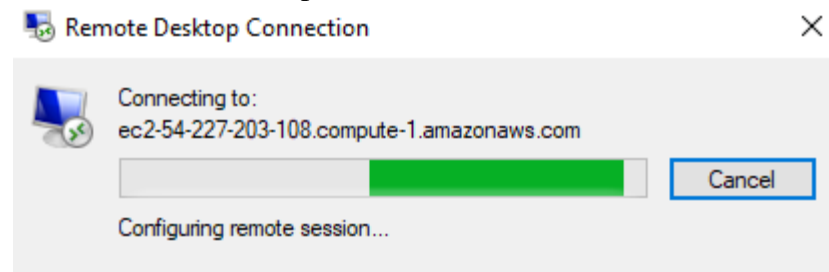
Step 17: Here, you need to choose file (key-pair file) and it is not a mandatory to use ppk format, you can use '.pem' extension. Then click On 'Decrypt Password'



Step 18: Copy the password and open the downloaded file.



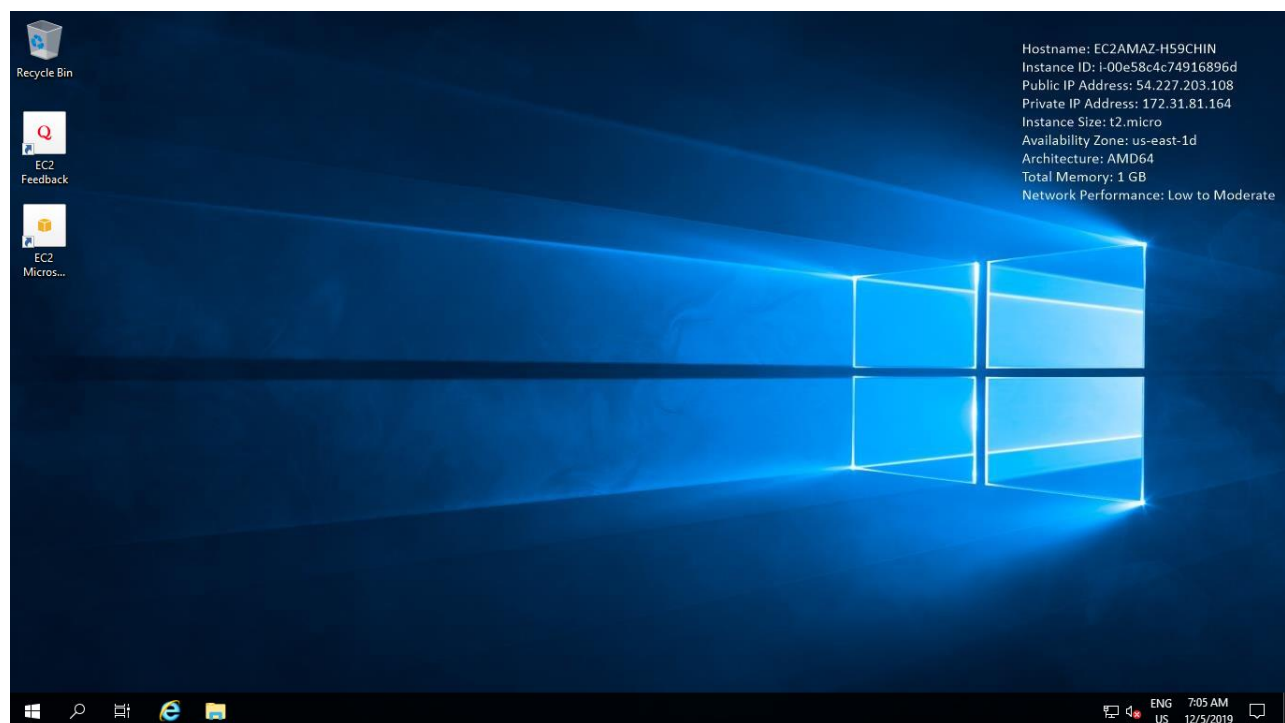
Step 19: Click on connect, Then it will ask for the password as shown below, copy the password from aws console and paste it here.



Step 20: There you will get the screen whether to continue or not? You need to accept the process then click on yes to proceed anyway.



Step 21: Then you will be connected to your windows server.



Thus, you can launch a Windows instance using EC2 in AWS.

