



# Andhra Pradesh State Skill Development Corporation



# AWS CLOUD COMPUTING

LAUNCHING OF WINDOWS ELASTIC COMPUTE CLOUD (EC2)  
INSTANCE IN AWS



## **Launching of Windows Elastic Compute Cloud (EC2) Instance in AWS**



## Launching Windows EC2 instance

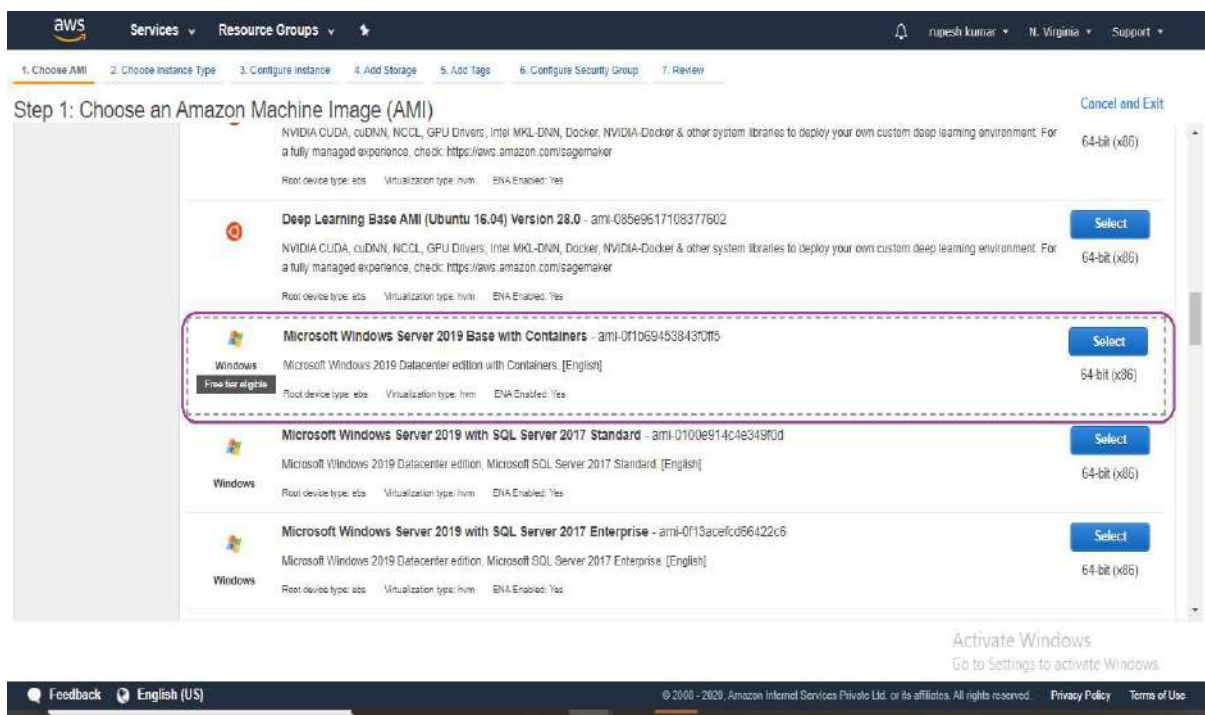
**Amazon EC2** instances created from most Windows Amazon Machine Images (AMIs) enable you to connect using Remote Desktop. Remote Desktop uses the Remote Desktop Protocol (RDP) and enables you to connect to and use your instance in the same way you use a computer sitting in front of you. It is available on most editions of Windows and available for Mac OS.

### To Launch Windows EC2 instance

#### Step 1: Choose an AMI

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

**Select → Microsoft Windows Server 2019 Base - ami-032c2c4b952586f02**



#### 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.

**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 (GiB)	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

Buttons: Cancel | Previous | **Review and Launch** | Next: Configure Instance Details

## 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, and assign an access management role to the instance.

**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-29be0753 (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](#)

Shutdown behavior: Stop

Stop - Hibernate behavior: ☐ Enable hibernation as an additional stop behavior

Enable termination protection: ☐ Protect against accidental termination

Buttons: Cancel | Previous | **Review and Launch** | Next: Add Storage

## 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 (Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage).

**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-01a4fa423a08b174a	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](#) [Previous](#) [Review and Launch](#) [Next: Add Tags](#)

## 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.

**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)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

## 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. If you want to launch a windows remote desktop, allow the port RDP with port range - 3389.

**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	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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## Step7: 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.

**Step 7: Review Instance Launch**

**AMI Details**

Microsoft Windows Server 2019 Base with Containers - ami-0f1b68453843f0f55

Free for eligible Microsoft Windows 2019 Datacenter edition with Containers. [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**

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**

Security group name: launch-wizard-8  
Description: launch-wizard-8 created 2020-08-27T12:56:47.111+05:30

Type	Protocol	Port Range	Source	Description
RDP	TCP	3389	0.0.0.0/0	
All traffic	All	All	0.0.0.0/0	

[Launch](#)

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**To connect to Amazon Windows instance from linux client operating system**

Login to client operating system → Open linux terminal

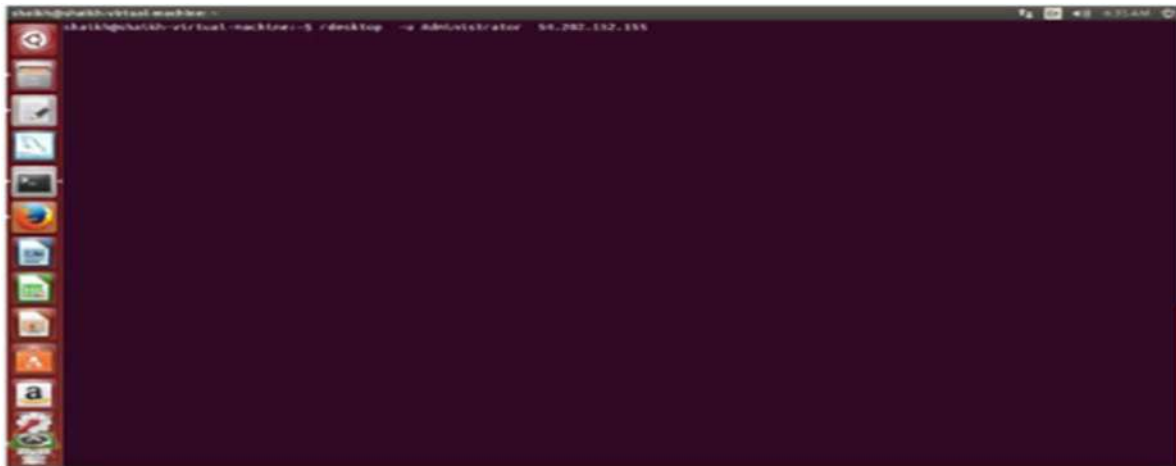
**Note:** rdesktop or xfreerdp {RHEL-6,7} package should be installed

**\$ rdesktop -u Administrator <Pub\_DNS\_name/Public\_IP>**

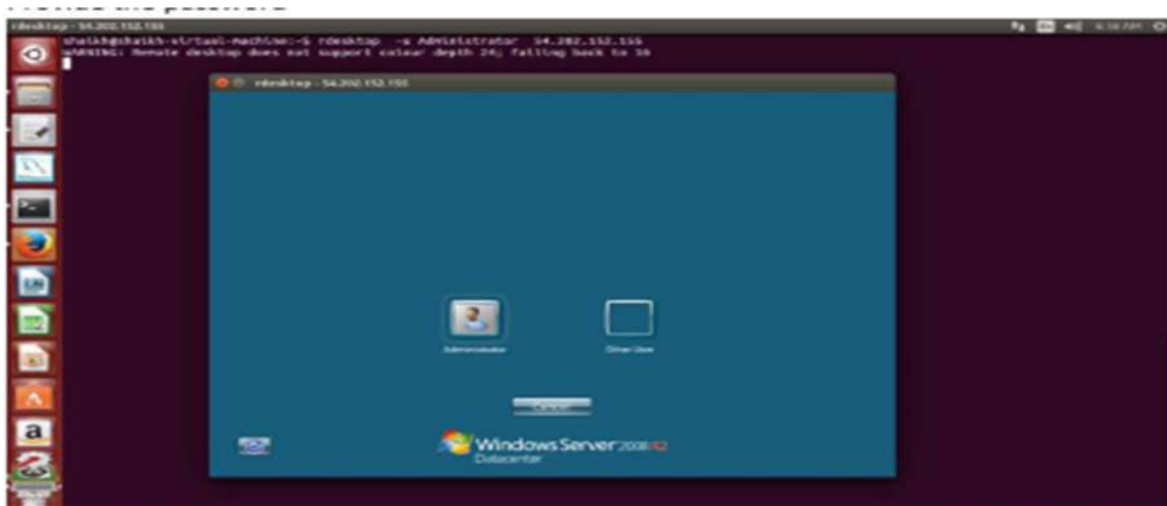
(Or)

**\$ xfreerdp -u Administrator <Pub\_DNS\_name/Public\_IP>**

In { RHEL-6,7 } → -u → user name



Click on **Administrator** and Provide the password and click on **verify**



Once logged in Windows, Desktop is available {If you are going to use the instance, terminate the instance}.

**To connect Windows instance from Windows client operating system**

→ In the navigation pane, under Instances, choose Instances.

The screenshot shows the AWS Management Console with the 'Instances' page selected. A table lists three EC2 instances: 'linux\_server', 'ubuntu\_server', and 'Windows\_Server'. The 'Windows\_Server' instance is highlighted with a red box. Below the table, the details for the 'Windows\_Server' instance are shown, including its ID, state, type, and various network settings.

Browse to and choose your Windows Server instance in the list.

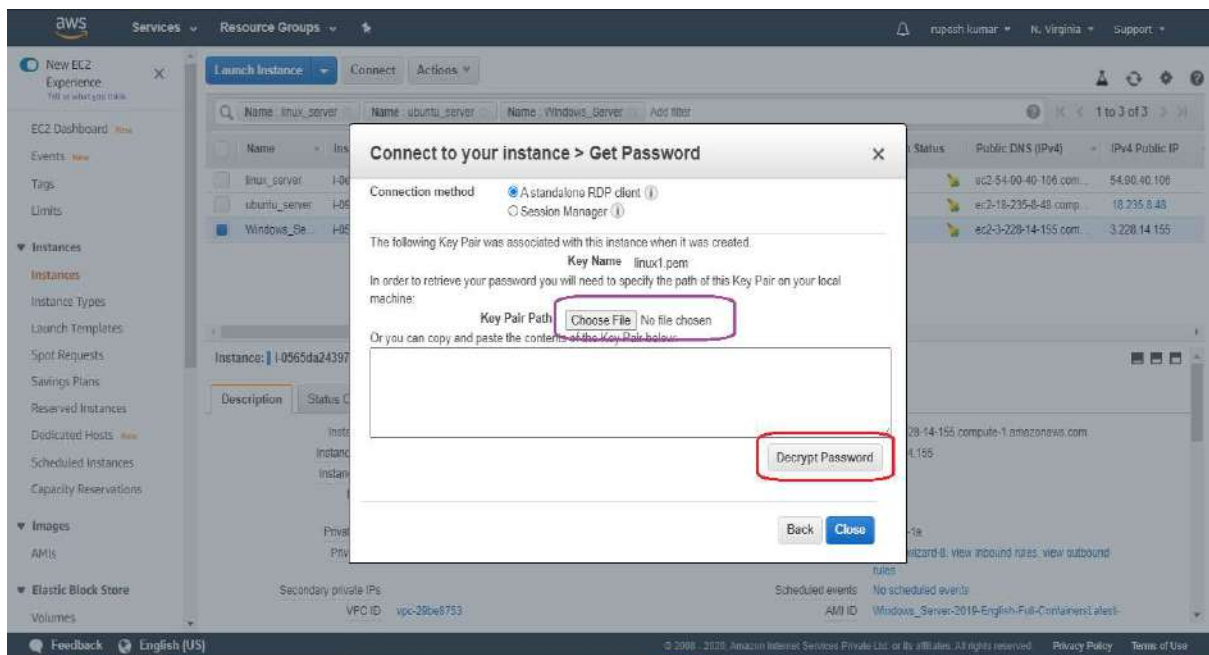
→ Choose **Connect** and click on **Get Password**

The screenshot shows the 'Connect to your instance' dialog box. The 'Connection method' is set to 'A standalone RDP client'. The dialog provides details for connecting to the 'Windows\_Server' instance, including the public DNS, user name 'Administrator', and a 'Get Password' button. The 'Get Password' button is highlighted with a red box.

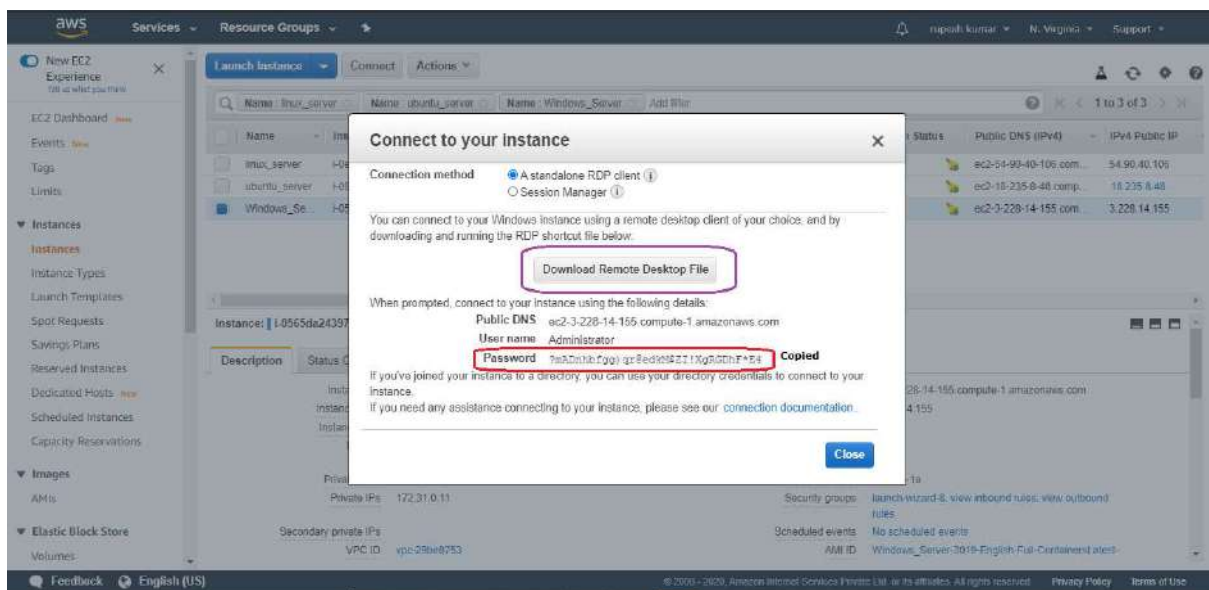
→ Choose **Browse**. Browse to and choose the Amazon EC2 instance **key pair** file associated with the Windows Server Amazon EC2 instance, and then choose Open

→ Choose **Decrypt Password**. Make a note of the password that is displayed. Later You need it.





→ Choose **Download Remote Desktop File**, and then open the file.



→ If you are prompted to connect even though the publisher of the remote connection can't be identified, proceed.

→ Type the password you noted in step 7, and then proceed. (If your RDP connection client application prompts you for a user name, type **Administrator**.)

→ If you are prompted to connect even though the identity of the remote computer cannot be verified, proceed.

→ After you are connected, the desktop of the Amazon EC2 instance running Windows Server is displayed.

