

Deploying webserver in window instance (AWS platform)

Go to <https://aws.amazon.com/> site and sign in to console

Open EC2(Amazon Elastic Compute Cloud) Dashboard

The screenshot shows the AWS Management Console EC2 Dashboard for the Asia Pacific (Mumbai) region. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, and Elastic IPs.

Resources

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

Resource	Count
Running instances	0
Elastic IPs	0
Dedicated Hosts	0
Snapshots	0
Volumes	0
Load balancers	0
Key pairs	0
Security groups	1
Placement groups	0

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#)

Note: Your instances will launch in the Asia Pacific (Mumbai) Region

Scheduled events

Asia Pacific (Mumbai)

No scheduled events

Service health

Region: Asia Pacific (Mumbai) Status: ✔ This service is operating normally

Zone status

Zone	Status
ap-south-1a (aps1-az1)	✔ Zone is operating normally
ap-south-1b (aps1-az3)	✔ Zone is operating normally
ap-south-1c (aps1-az2)	✔ Zone is operating normally

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No scheduled events

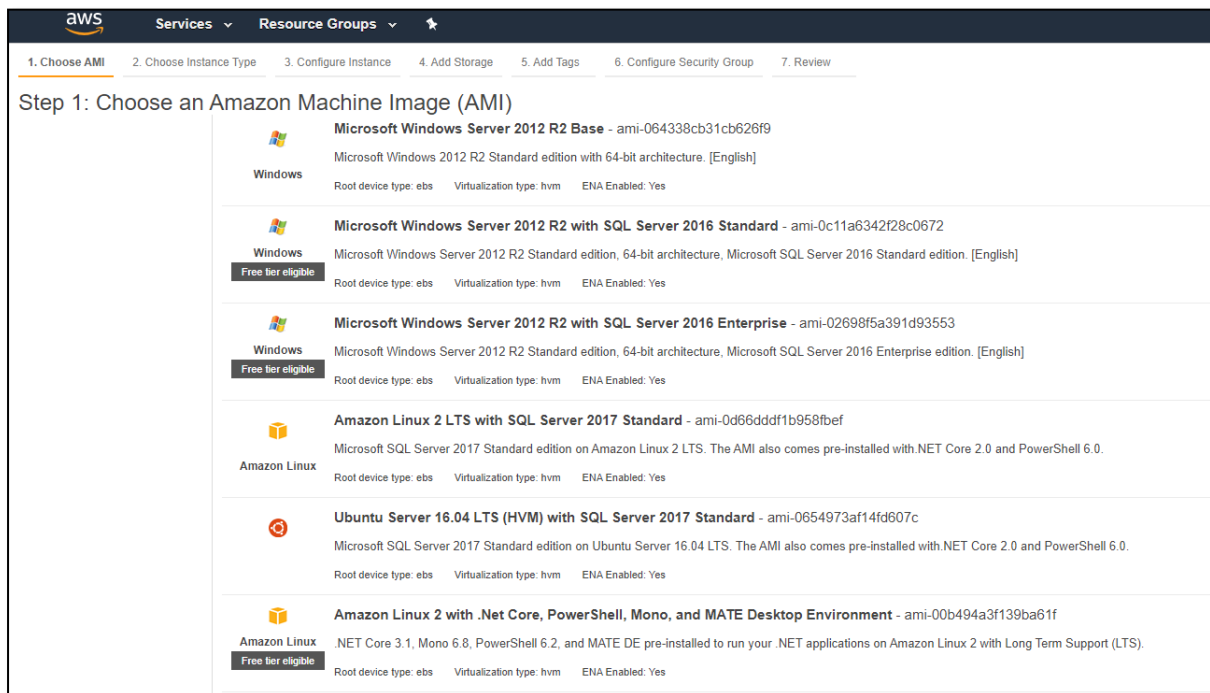
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Choose Amazon Machine Image

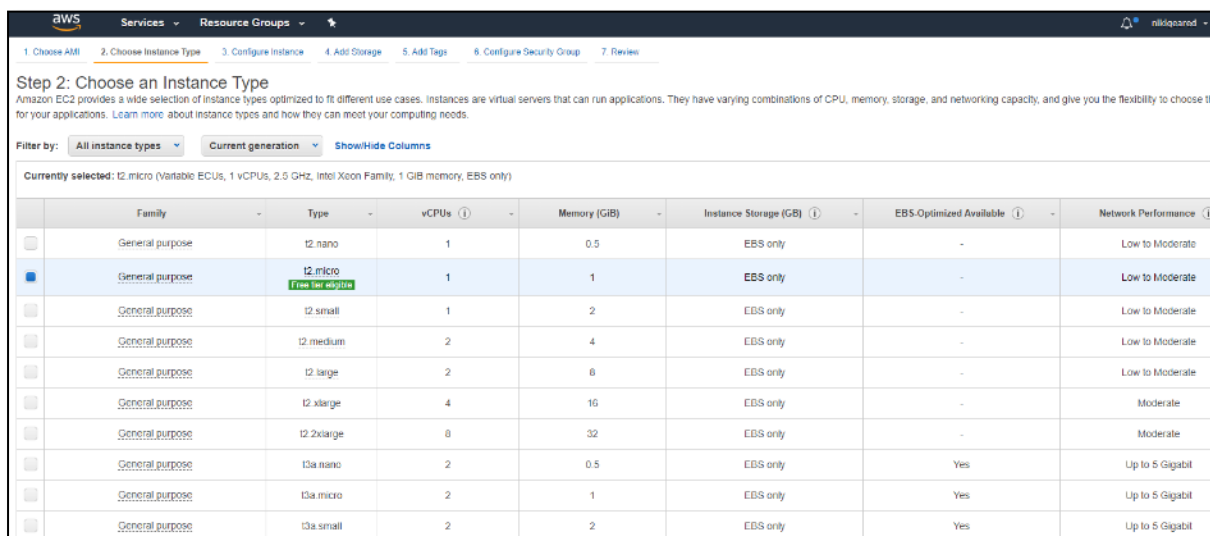


Step 1: Choose an Amazon Machine Image (AMI)

The screenshot shows the AWS Management Console interface for selecting an AMI. The top navigation bar includes 'Services' and 'Resource Groups'. The main content area is titled 'Step 1: Choose an Amazon Machine Image (AMI)'. Below the title, there are several AMIs listed with their details:

- Microsoft Windows Server 2012 R2 Base** - ami-064338cb31cb626f9
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Microsoft Windows Server 2012 R2 with SQL Server 2016 Standard** - ami-0c11a6342f28c0672
Microsoft Windows Server 2012 R2 Standard edition, 64-bit architecture, Microsoft SQL Server 2016 Standard edition. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Microsoft Windows Server 2012 R2 with SQL Server 2016 Enterprise** - ami-02698f5a391d93553
Microsoft Windows Server 2012 R2 Standard edition, 64-bit architecture, Microsoft SQL Server 2016 Enterprise edition. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Amazon Linux 2 LTS with SQL Server 2017 Standard** - ami-0d66ddd1b958fbef
Microsoft SQL Server 2017 Standard edition on Amazon Linux 2 LTS. The AMI also comes pre-installed with .NET Core 2.0 and PowerShell 6.0.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Ubuntu Server 16.04 LTS (HVM) with SQL Server 2017 Standard** - ami-0654973af14fd607c
Microsoft SQL Server 2017 Standard edition on Ubuntu Server 16.04 LTS. The AMI also comes pre-installed with .NET Core 2.0 and PowerShell 6.0.
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Amazon Linux 2 with .Net Core, PowerShell, Mono, and MATE Desktop Environment** - ami-00b494a3f139ba61f
.NET Core 3.1, Mono 6.8, PowerShell 6.2, and MATE DE pre-installed to run your .NET applications on Amazon Linux 2 with Long Term Support (LTS).
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Choose instanced type



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 instance type that best fits 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
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
<input checked="" type="checkbox"/>	General purpose	t2.micro	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate
<input type="checkbox"/>	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gbps
<input type="checkbox"/>	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gbps
<input type="checkbox"/>	General purpose	t3a.small	2	2	EBS only	Yes	Up to 5 Gbps

Configure instance Detail

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 lower prices, or launch instances in an Auto Scaling Group to maintain a desired number of instances.

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

Domain join directory [Create new directory](#)

IAM role [Create new IAM role](#)

Shutdown behavior

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

Enable termination protection ☐ Protect against accidental termination

Monitoring ☐ Enable CloudWatch detailed monitoring
[Additional charges apply.](#)

Tenancy
[Additional charges will apply for dedicated tenancy.](#)

T2/T3 Unlimited ☐ Enable
[Additional charges may apply](#)

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. [Learn more](#) about storage options in Amazon EC2.

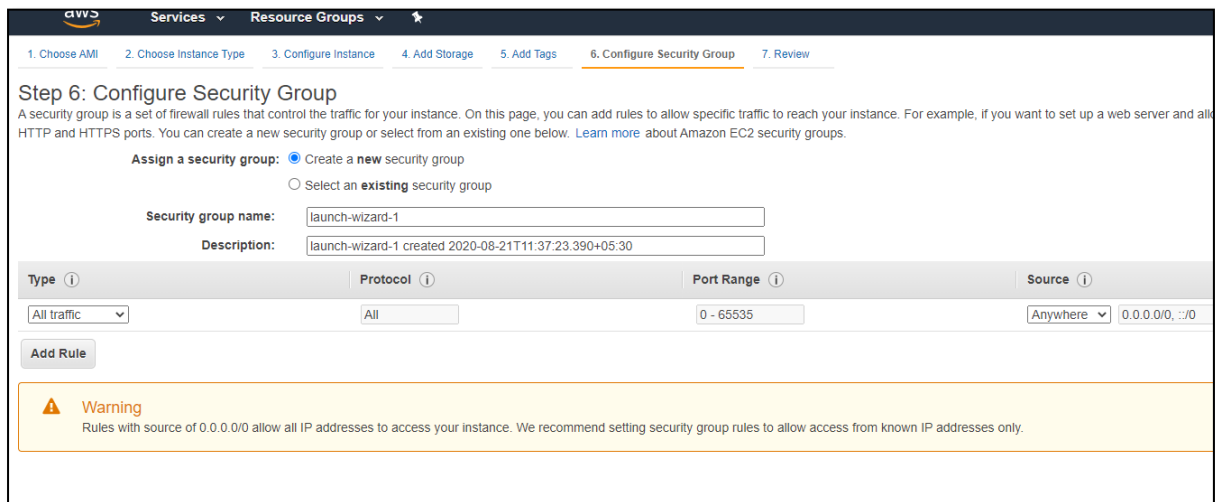
Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination
Root	/dev/sda1	snap-0e268d737d09862b5	<input type="text" value="30"/>	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>

[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.

Add Tag if any

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 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:

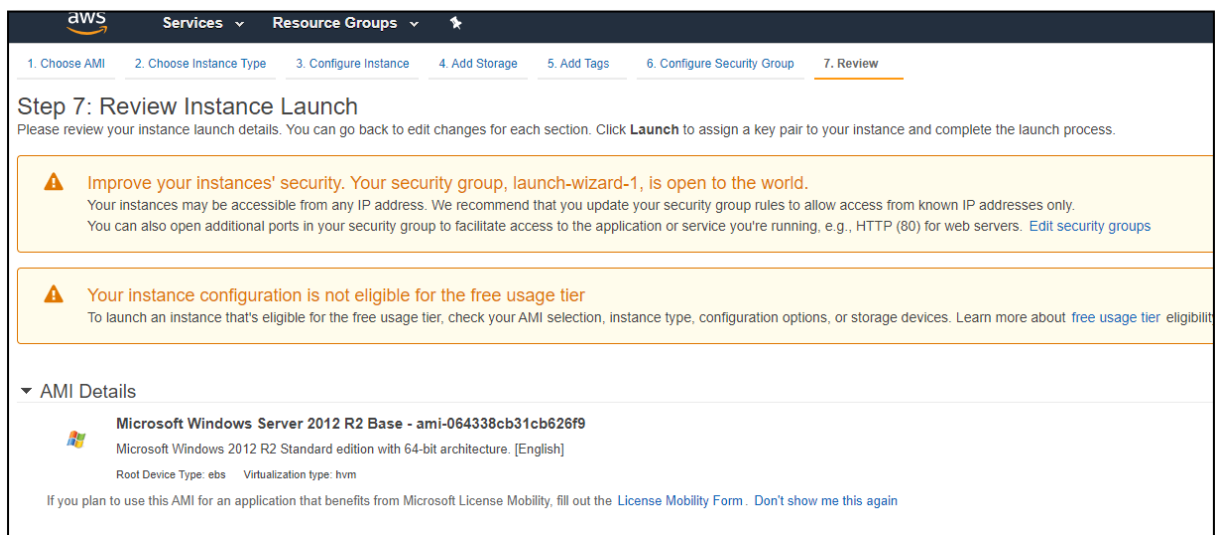
Description:

Type	Protocol	Port Range	Source
All traffic	All	0 - 65535	Anywhere (0.0.0.0/0)

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.

Review Instance 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.

Warning
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](#)

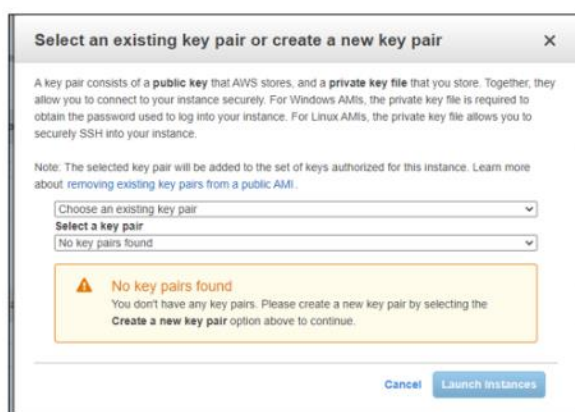
Warning
Your instance configuration is not eligible for the free usage tier. To launch an instance that's eligible for the free usage tier, check your AMI selection, instance type, configuration options, or storage devices. [Learn more about free usage tier eligibility](#)

AMI Details

Microsoft Windows Server 2012 R2 Base - ami-064338cb31cb626f9
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [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

Select Keypair



Select an existing key pair or create a new key pair

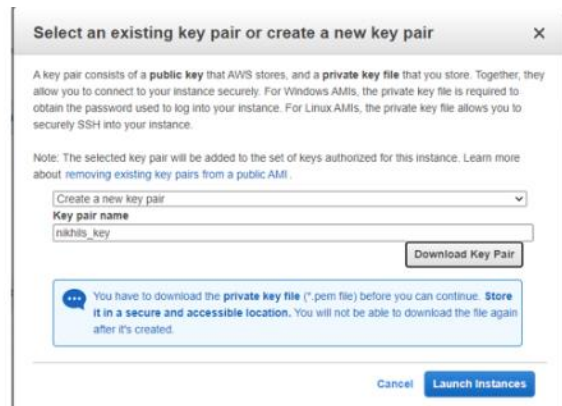
A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more about removing existing key pairs from a public AMI.](#)

Choose an existing key pair
Select a key pair
No key pairs found

No key pairs found
You don't have any key pairs. Please create a new key pair by selecting the **Create a new key pair** option above to continue.

Cancel **Launch Instances**



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Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more about removing existing key pairs from a public AMI.](#)

Create a new key pair
Key pair name
nikhil_key

Download Key Pair

You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.

Cancel **Launch Instances**

Finalise and Launch

Launch Instance

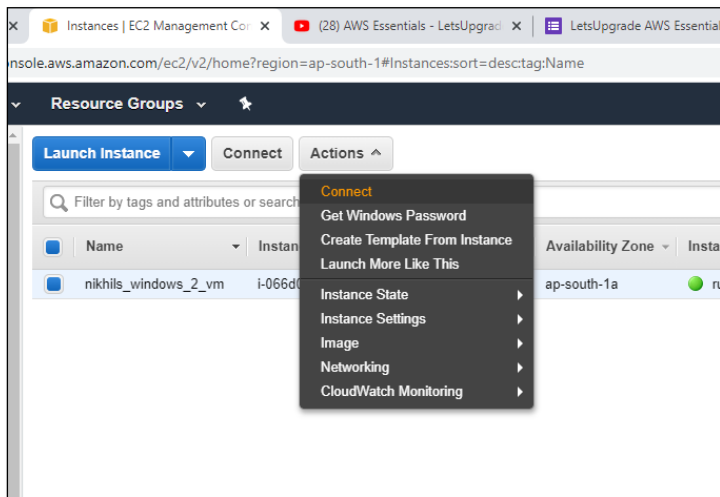
Connect

Actions

Filter by tags and attributes or search by keyword

<input type="checkbox"/>	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
<input type="checkbox"/>	nikhils_windows_2_vm	i-066d07a35df49304b	t2.micro	ap-south-1a	running	2/2 checks ...	None	ec2-15-207-108-72.ap-...	15.207.108.72

Click Action and connect



Download RDB and connect and get admin password

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 ec2-15-207-108-72.ap-south-1.compute.amazonaws.com
User name Administrator
Password [Get 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](#)

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

nikhils_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

nikhils_key.pem

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

-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAq9Ht7+AJ9eVKZirSntqOco2Ep0t/7C7pZQa4Bkwc0GIFO1tFoKC/tLLGFEya
e0pgkgqzA5aotqe9UMcl7dftpNOXMPXia3aDDWlj6rtXP/UpMgXchQNH4I/8TTkjtDi/7HDOG0v4
CN1KuNghnsWStyv4yhsA7OR4Y64aq9qjc0iCmBJXi90wKbWg32kOPFqfb3IzwoPNEHVIA1tfj
mpDZxWiAeK/Z44nwCC2dJgw9VAGBMWjavrxNpSWfkjM+iGO8IN2iv3HR2a+oFA+UrlsfMjf+xk8pAx
Y/BAOxfX6xegcdhAIBVzyAZumBopyTgBf3eandhgx+/yG2U0KETwIDAQABAoIBAQCb3+xrBKYk

Decrypt Password

Back

Close

Connect to your instance

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ec2-15-207-108-72.ap-south-1.compute.amazonaws.com

User name

Administrator

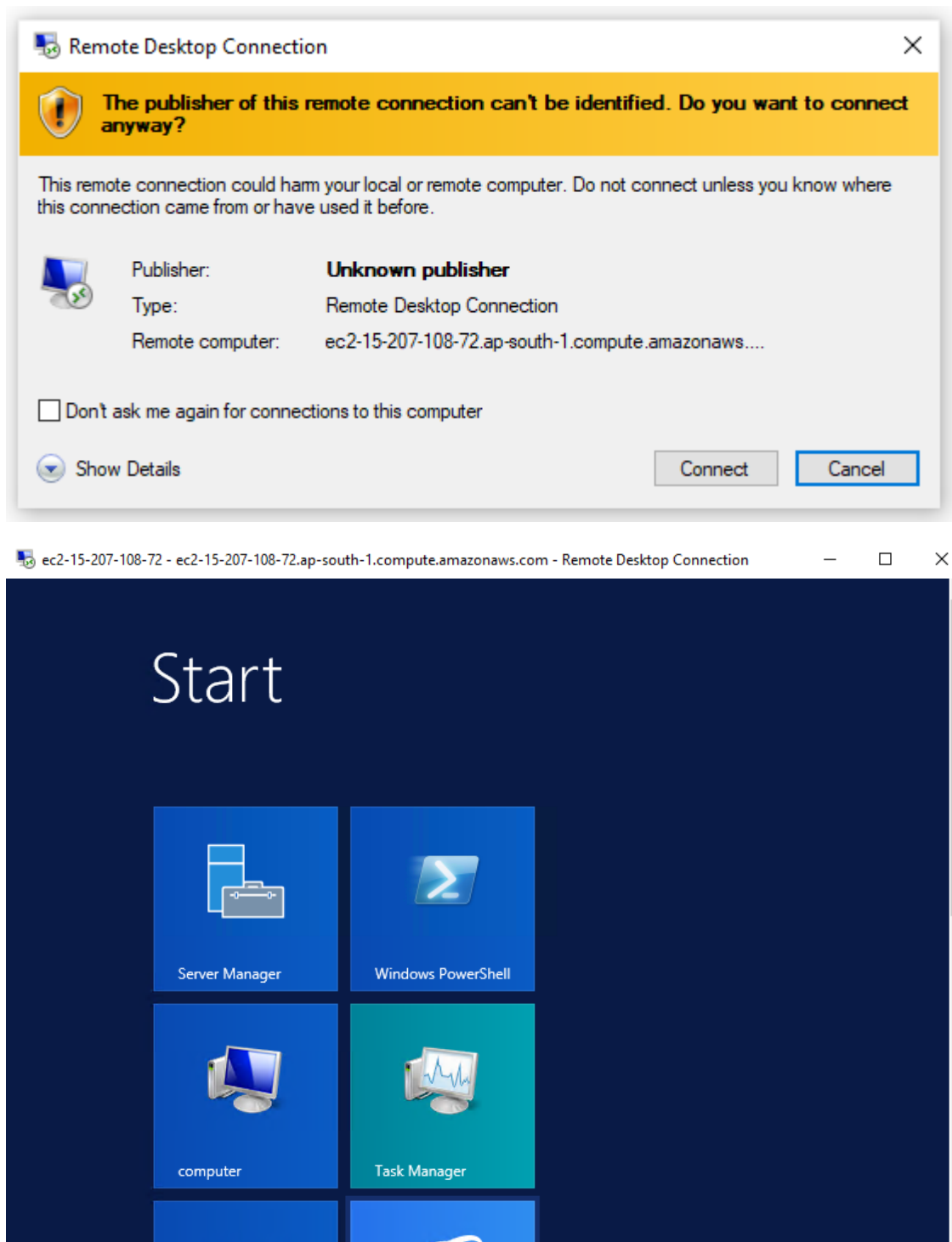
Password

DbfNjfs@jen

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Close

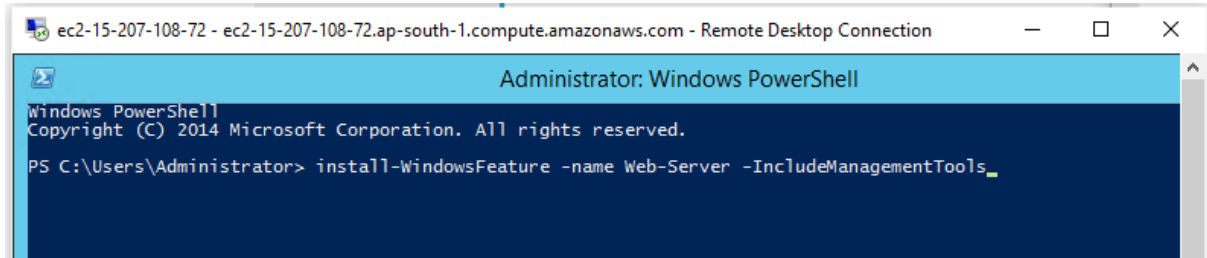
Open Remote desktop file and login



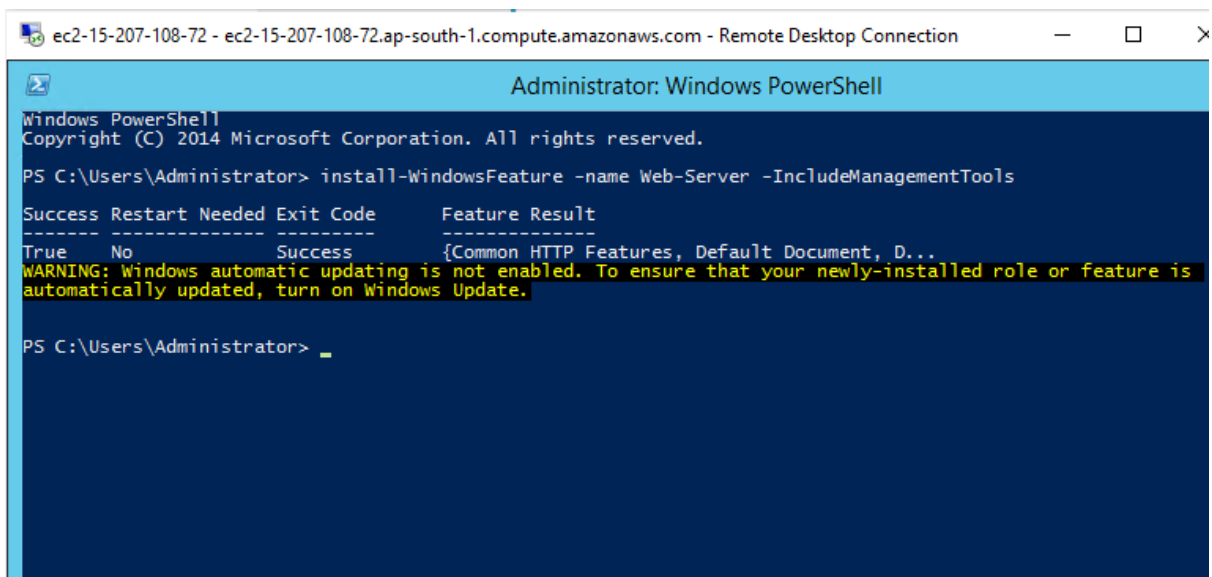
Install IIS web server using Powershell ISE

Open windows power shell type following command

`install-WindowsFeature -name Web-Server -IncludeManagementTools`



A screenshot of a Windows PowerShell console window titled "Administrator: Windows PowerShell". The window shows the command `install-WindowsFeature -name Web-Server -IncludeManagementTools` being entered at the prompt `PS C:\Users\Administrator>`. The window title bar indicates a Remote Desktop Connection to `ec2-15-207-108-72 - ec2-15-207-108-72.ap-south-1.compute.amazonaws.com`.



A screenshot of a Windows PowerShell console window titled "Administrator: Windows PowerShell". The window shows the command `install-WindowsFeature -name Web-Server -IncludeManagementTools` being entered at the prompt `PS C:\Users\Administrator>`. The output shows the command was successful, with a table of results and a warning message. The window title bar indicates a Remote Desktop Connection to `ec2-15-207-108-72 - ec2-15-207-108-72.ap-south-1.compute.amazonaws.com`.

Success	Restart Needed	Exit Code	Feature Result
True	No	Success	{Common HTTP Features, Default Document, D...

WARNING: Windows automatic updating is not enabled. To ensure that your newly-installed role or feature is automatically updated, turn on Windows Update.

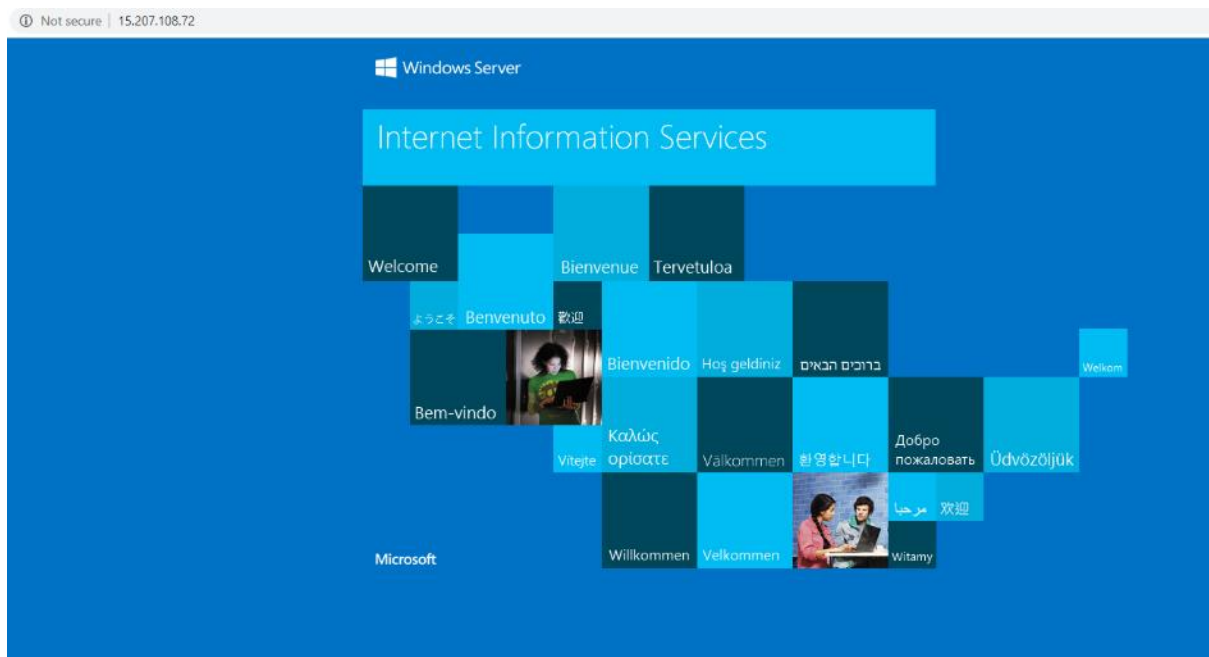
Open Public IP

Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Key Name	Monitoring	Launch Time	Security G
ap-south-1a	running	2/2 checks ...	None	ec2-15-207-108-72.ap-...	15.207.108.72	-	nikhils_key	disabled	August 21, 2020 at 11:42:23 ...	launch-wiz

Instance: i-066d07a35df49304b (nikhils_windows_2_vm)

Public DNS: ec2-15-207-108-72.ap-south-1.compute.amazonaws.com

Description	Status Checks	Monitoring	Tags
Instance ID	i-066d07a35df49304b		
Instance state	running		
Instance type	t2.micro		
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more		
Public DNS (IPv4)	ec2-15-207-108-72.ap-south-1.compute.amazonaws.com		
IPv4 Public IP	15.207.108.72		
IPv6 IPs	-		
Elastic IPs			



Verified the successful Installation IIS webserver