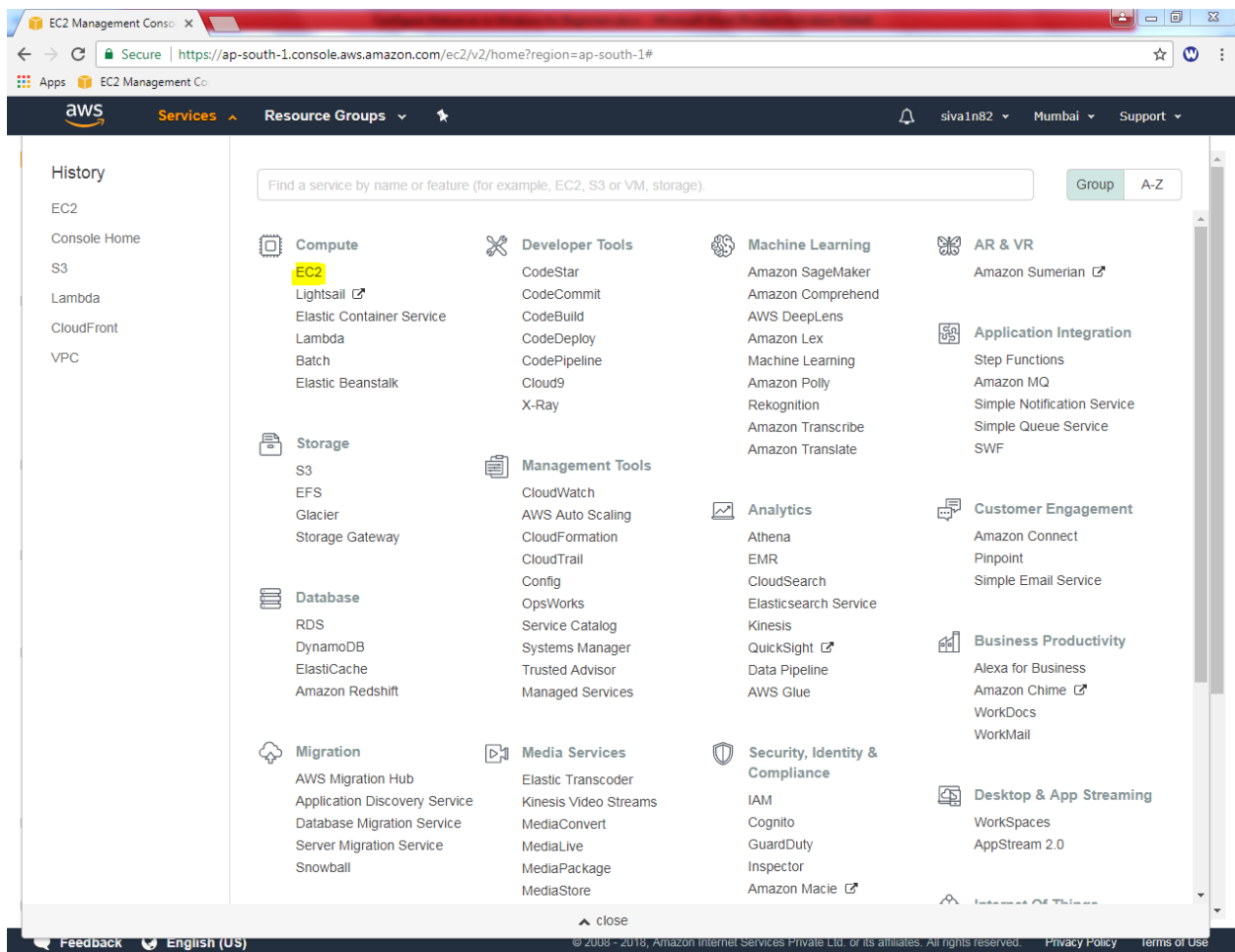


Lab2

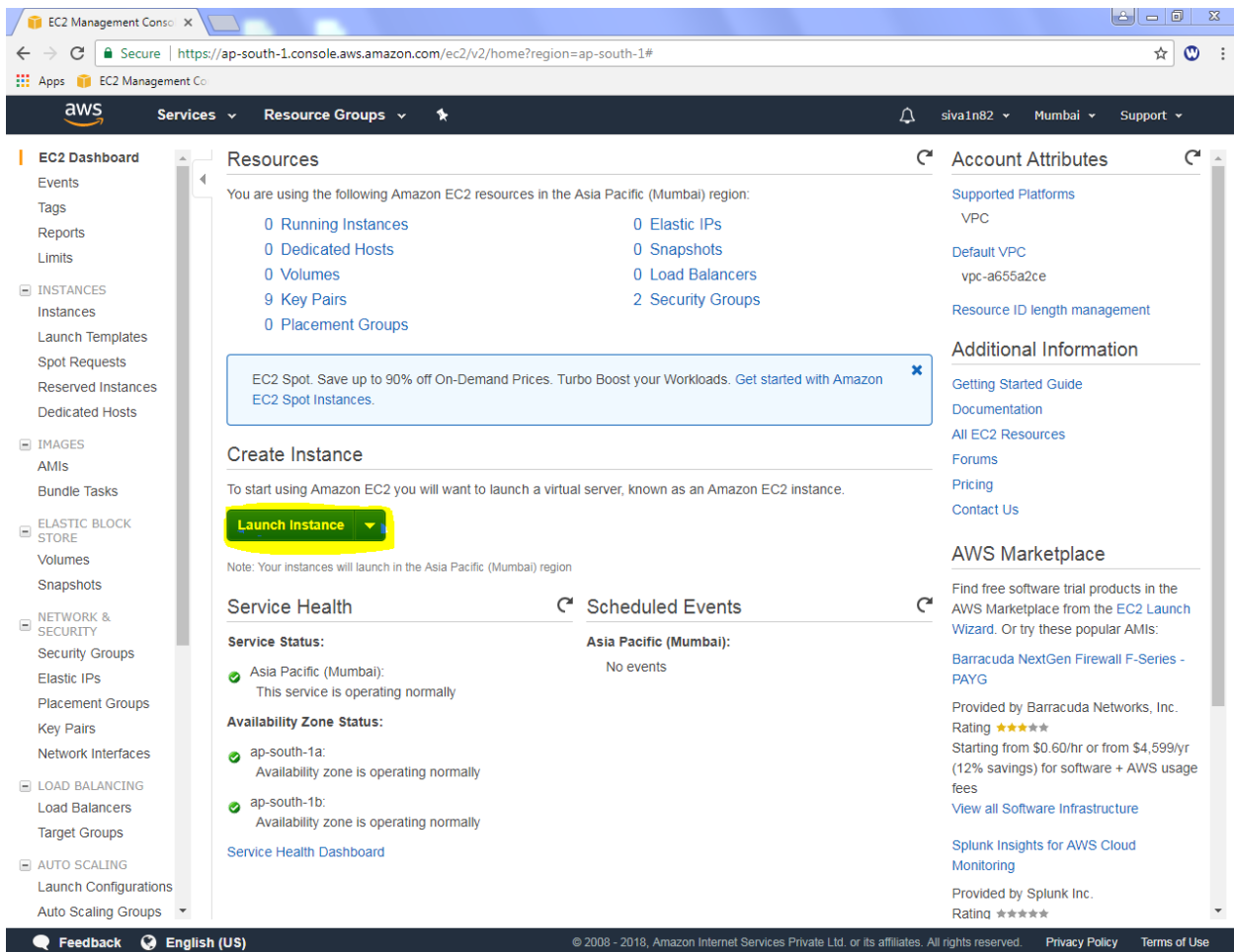
Configure IIS in Windows Instance – for beginners

While logged into AWS Console, we can able to see “EC2” service.



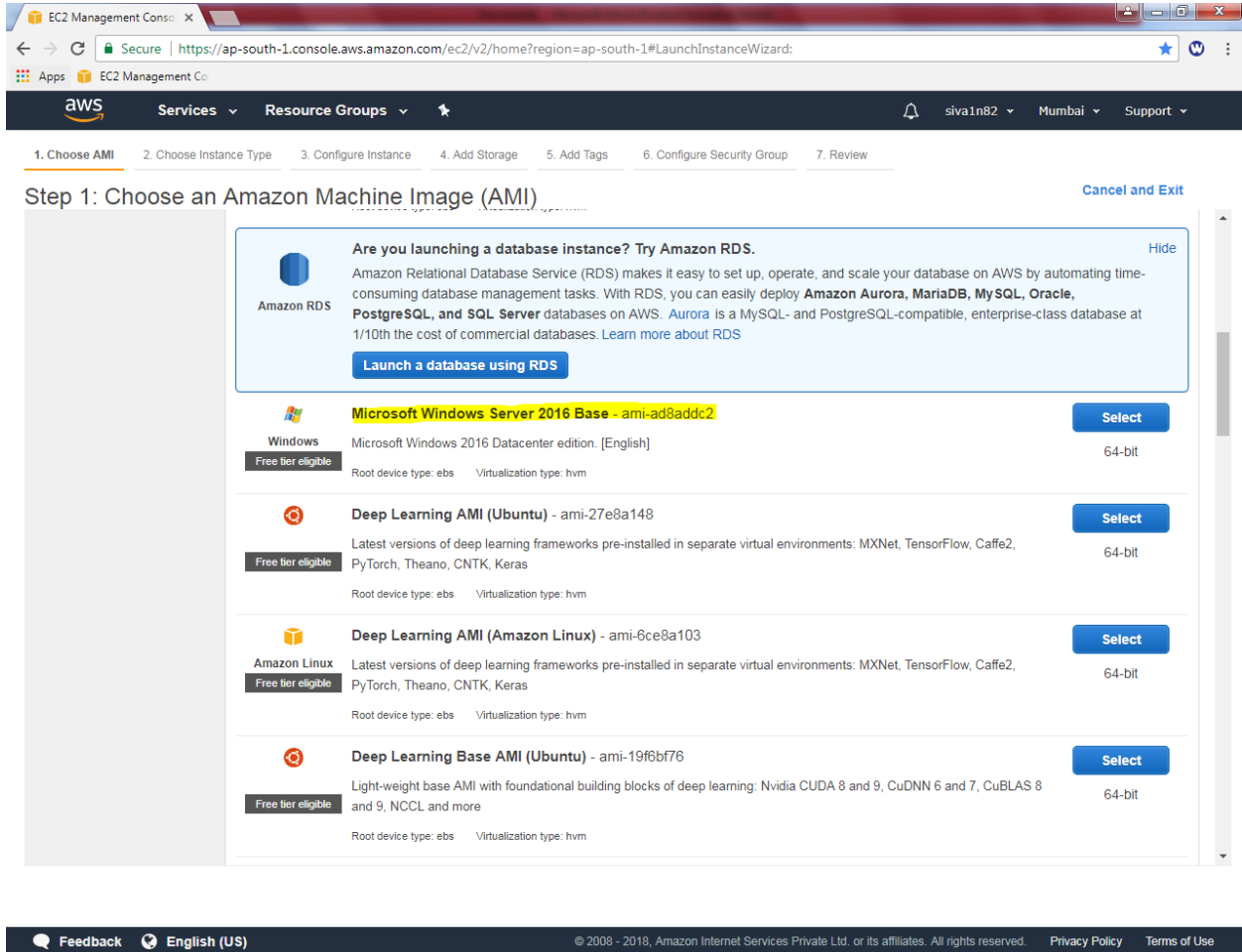
Click “EC2” service.

Then click “Launch Instance”.



The screenshot shows the AWS Management Console for the EC2 service in the Asia Pacific (Mumbai) region. The left sidebar contains navigation links for EC2 Dashboard, INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, LOAD BALANCING, and AUTO SCALING. The main content area is titled "Resources" and displays a summary of EC2 resources: 0 Running Instances, 0 Elastic IPs, 0 Dedicated Hosts, 0 Snapshots, 0 Volumes, 0 Load Balancers, 9 Key Pairs, 2 Security Groups, and 0 Placement Groups. A "Create Instance" section is visible, featuring a prominent yellow "Launch Instance" button. Below this, there are sections for "Service Health" (showing Asia Pacific (Mumbai) service status as "operating normally") and "Scheduled Events" (showing no events). The right sidebar contains "Account Attributes" (Supported Platforms, Default VPC, Resource ID length management) and "Additional Information" (Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, Contact Us). The bottom of the console shows a footer with "Feedback", "English (US)", and copyright information.

Select “Microsoft Windows Server 2016 base” AMI.



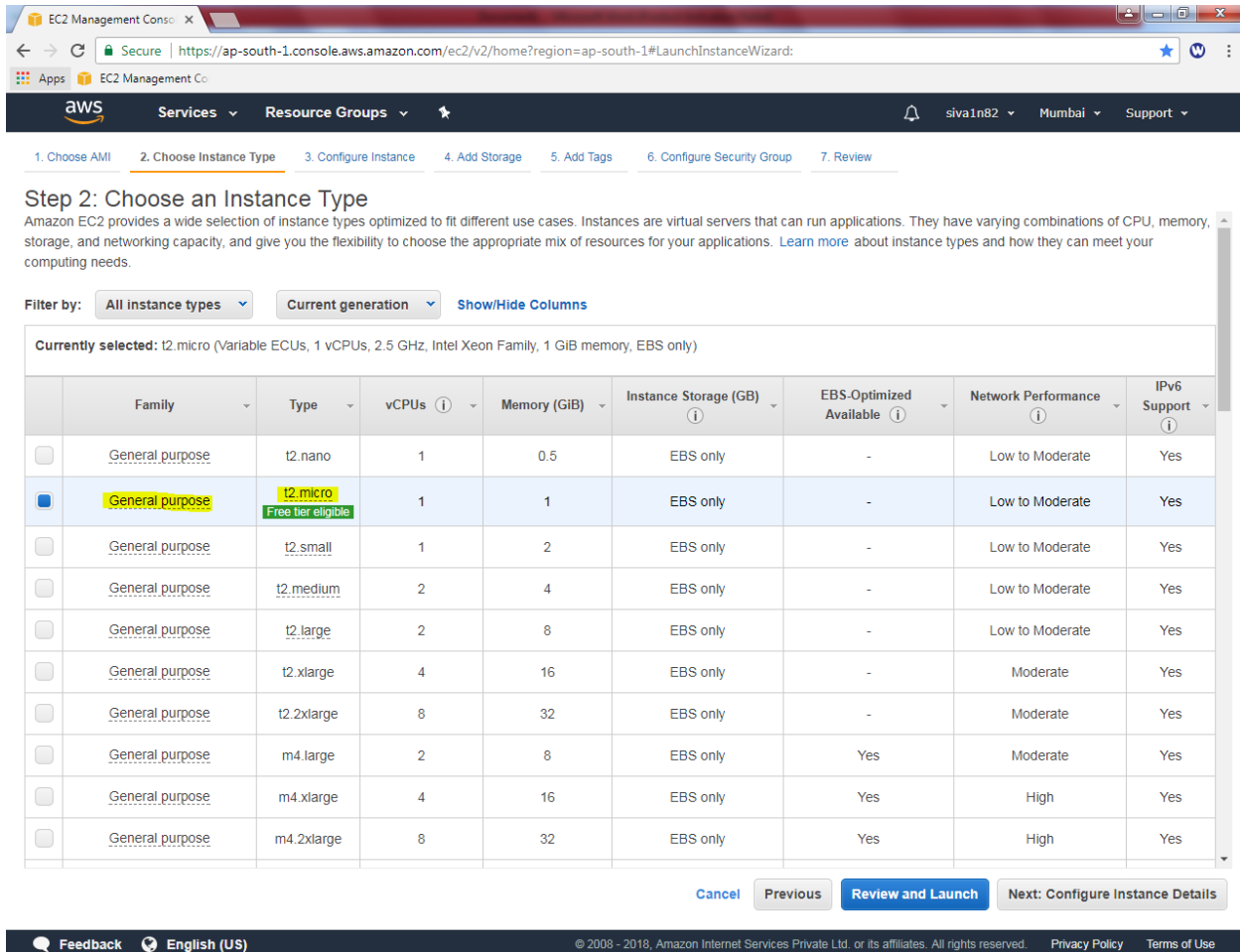
The screenshot shows the AWS Management Console interface for the 'Step 1: Choose an Amazon Machine Image (AMI)' wizard. The breadcrumb navigation at the top includes: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review. The 'Step 1: Choose an Amazon Machine Image (AMI)' step is currently active.

At the top of the wizard, there is a promotional banner for Amazon RDS with the text: "Are you launching a database instance? Try Amazon RDS." Below this banner, a list of AMIs is displayed:

- Microsoft Windows Server 2016 Base** - ami-ad8addc2 (64-bit). This AMI is highlighted in yellow. It is a Windows-based AMI, free tier eligible, with root device type ebs and virtualization type hvm.
- Deep Learning AMI (Ubuntu)** - ami-27e8a148 (64-bit). It is a Linux-based AMI, free tier eligible, with root device type ebs and virtualization type hvm. It includes latest versions of deep learning frameworks pre-installed in separate virtual environments: MXNet, TensorFlow, Caffe2, PyTorch, Theano, CNTK, Keras.
- Deep Learning AMI (Amazon Linux)** - ami-6ce8a103 (64-bit). It is a Linux-based AMI, free tier eligible, with root device type ebs and virtualization type hvm. It includes latest versions of deep learning frameworks pre-installed in separate virtual environments: MXNet, TensorFlow, Caffe2, PyTorch, Theano, CNTK, Keras.
- Deep Learning Base AMI (Ubuntu)** - ami-19f6bf76 (64-bit). It is a Linux-based AMI, free tier eligible, with root device type ebs and virtualization type hvm. It is a light-weight base AMI with foundational building blocks of deep learning: Nvidia CUDA 8 and 9, CuDNN 6 and 7, CuBLAS 8 and 9, NCCL and more.

Each AMI entry has a 'Select' button to the right. The bottom of the console shows a footer with 'Feedback', 'English (US)', and copyright information: '© 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.

Then ensure “General Purpose” t2.micro is selected.



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)

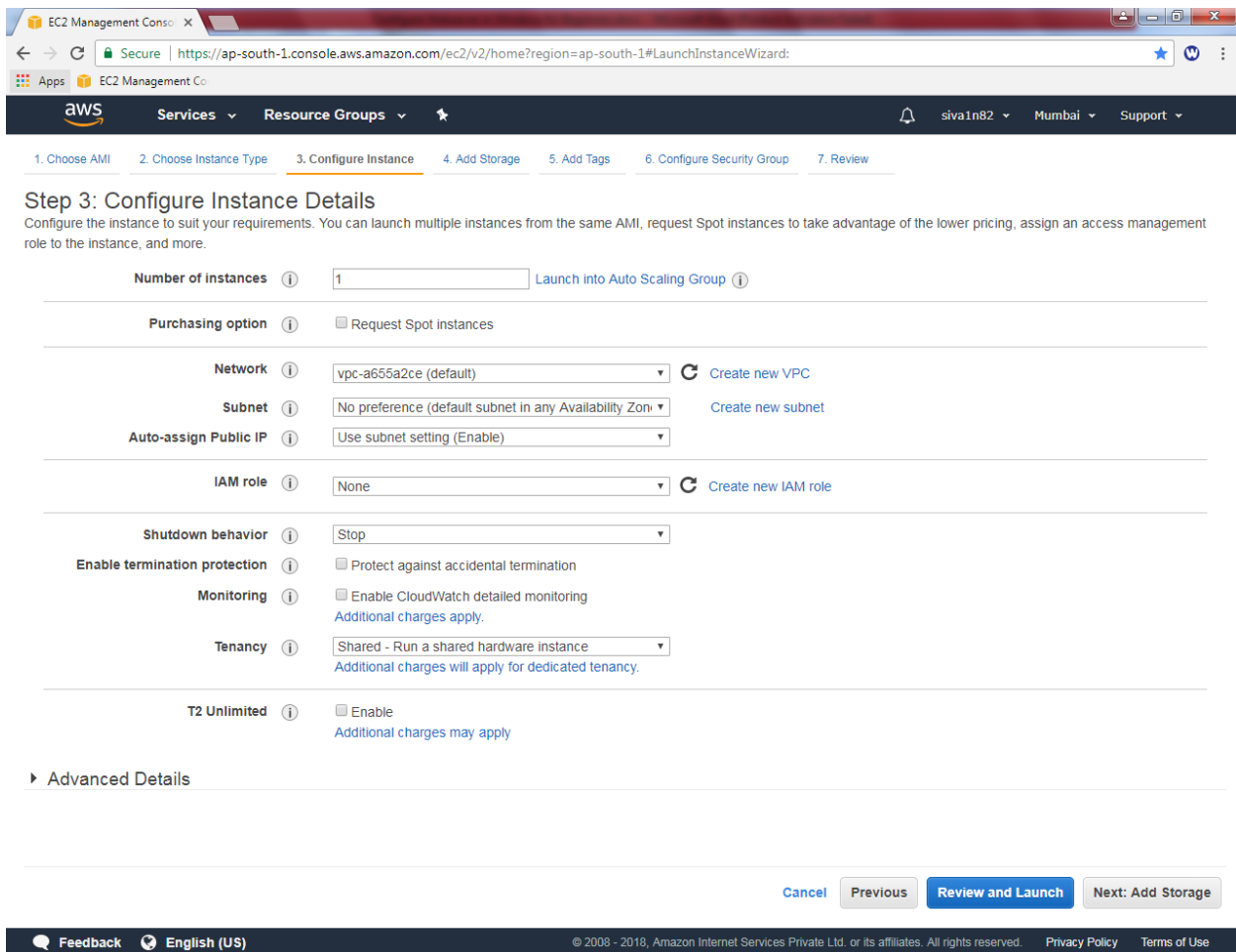
	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	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	m4.large	2	8	EBS only	Yes	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High	Yes

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

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Click “Next”.

Leave the default settings and click “Next”.



EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard>

Apps EC2 Management Console

Services Resource Groups

siva1n82 Mumbai Support

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

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 ⓘ

IAM role ⓘ [Create new IAM role](#)

Shutdown 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 Unlimited ⓘ ☐ Enable
[Additional charges may apply](#)

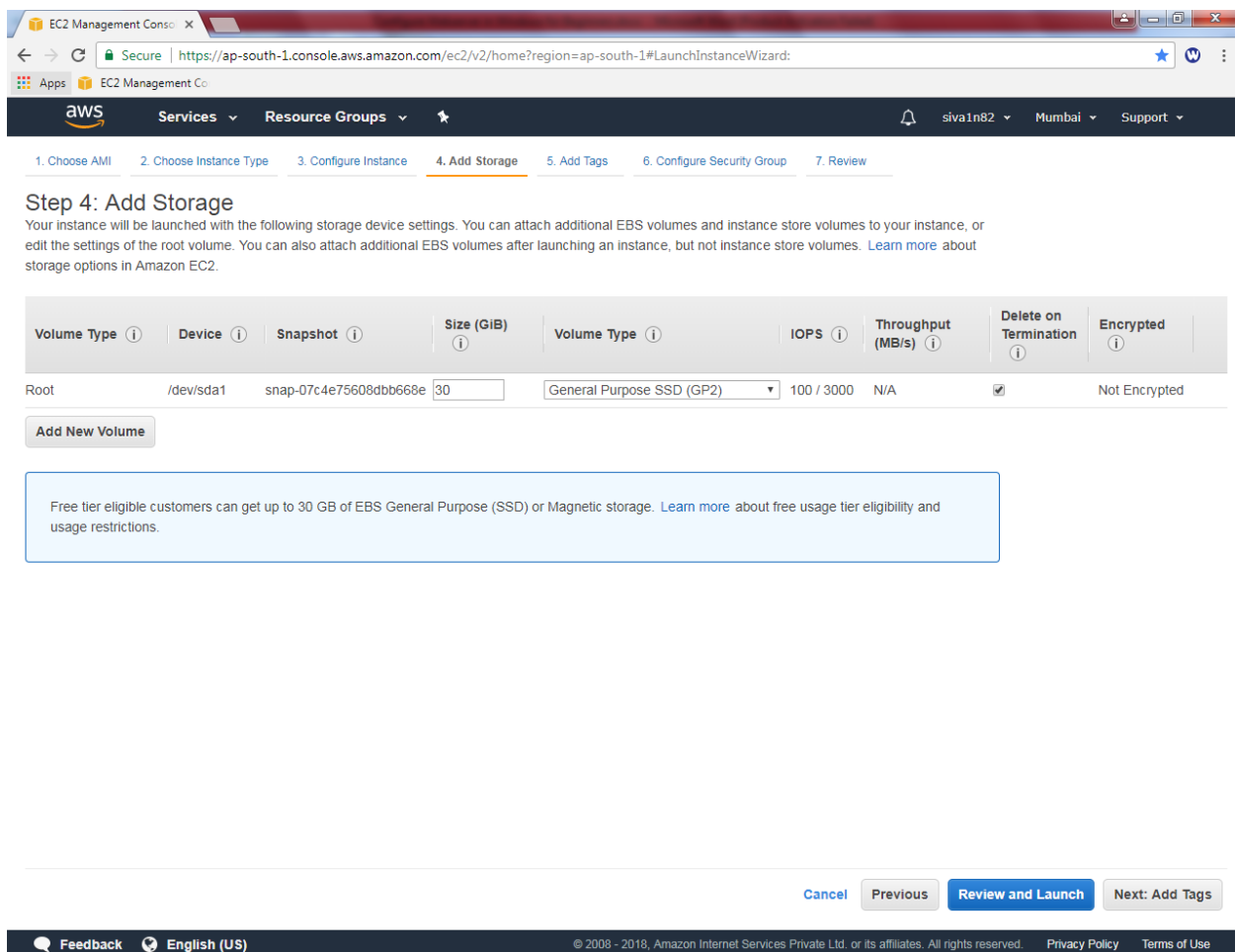
► Advanced Details

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

Feedback English (US)

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Leave the default settings and click “Next”.



The screenshot shows the AWS Management Console interface for the 'Step 4: Add Storage' wizard. The breadcrumb trail at the top indicates the steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage (current step), 5. Add Tags, 6. Configure Security Group, and 7. Review. The main heading is 'Step 4: Add Storage'. Below it, a paragraph explains that the instance will be launched with the following storage device settings and that additional EBS volumes can be attached after launching. A table displays the storage configuration for the 'Root' volume. The table has columns for Volume Type, Device, Snapshot, Size (GiB), Volume Type, IOPS, Throughput (MB/s), Delete on Termination, and Encrypted. The 'Root' volume is configured with device '/dev/sda1', snapshot 'snap-07c4e75608dbb668e', size '30', volume type 'General Purpose SSD (GP2)', IOPS '100 / 3000', throughput 'N/A', 'Delete on Termination' checked, and 'Not Encrypted'. Below the table is an 'Add New Volume' button. A light blue box contains a note about the free tier eligibility for EBS storage. At the bottom right, there are buttons for 'Cancel', 'Previous', 'Review and Launch', and 'Next: Add Tags'. The footer includes a 'Feedback' link, 'English (US)' language selection, and copyright information for Amazon Internet Services Private Ltd.

EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard>

Apps EC2 Management Console

aws Services Resource Groups

siva1n82 Mumbai Support

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	Encrypted
Root	/dev/sda1	snap-07c4e75608dbb668e	30	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

[Add New Volume](#)

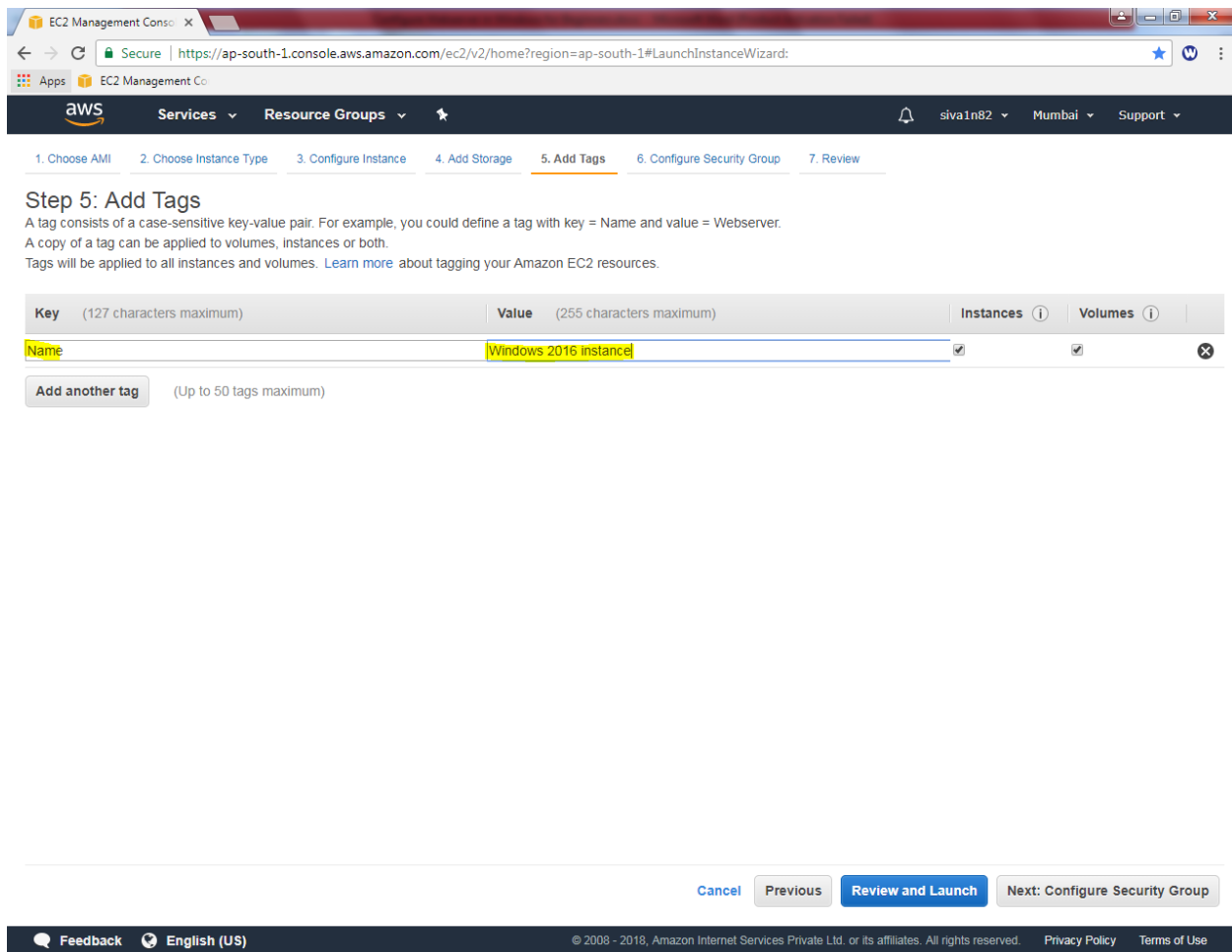
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Tags](#)

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In Add tags, type Key as “Name:” (Optional) and Value as “Windows 2016 Instance” (Optional).



The screenshot shows the AWS Management Console interface for the EC2 Launch Wizard. The browser address bar displays the URL: `https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:`. The console header includes the AWS logo, navigation tabs (Services, Resource Groups), and user information (siva1n82, Mumbai, Support).

The wizard progress bar shows seven steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags (active), 6. Configure Security Group, and 7. Review.

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.

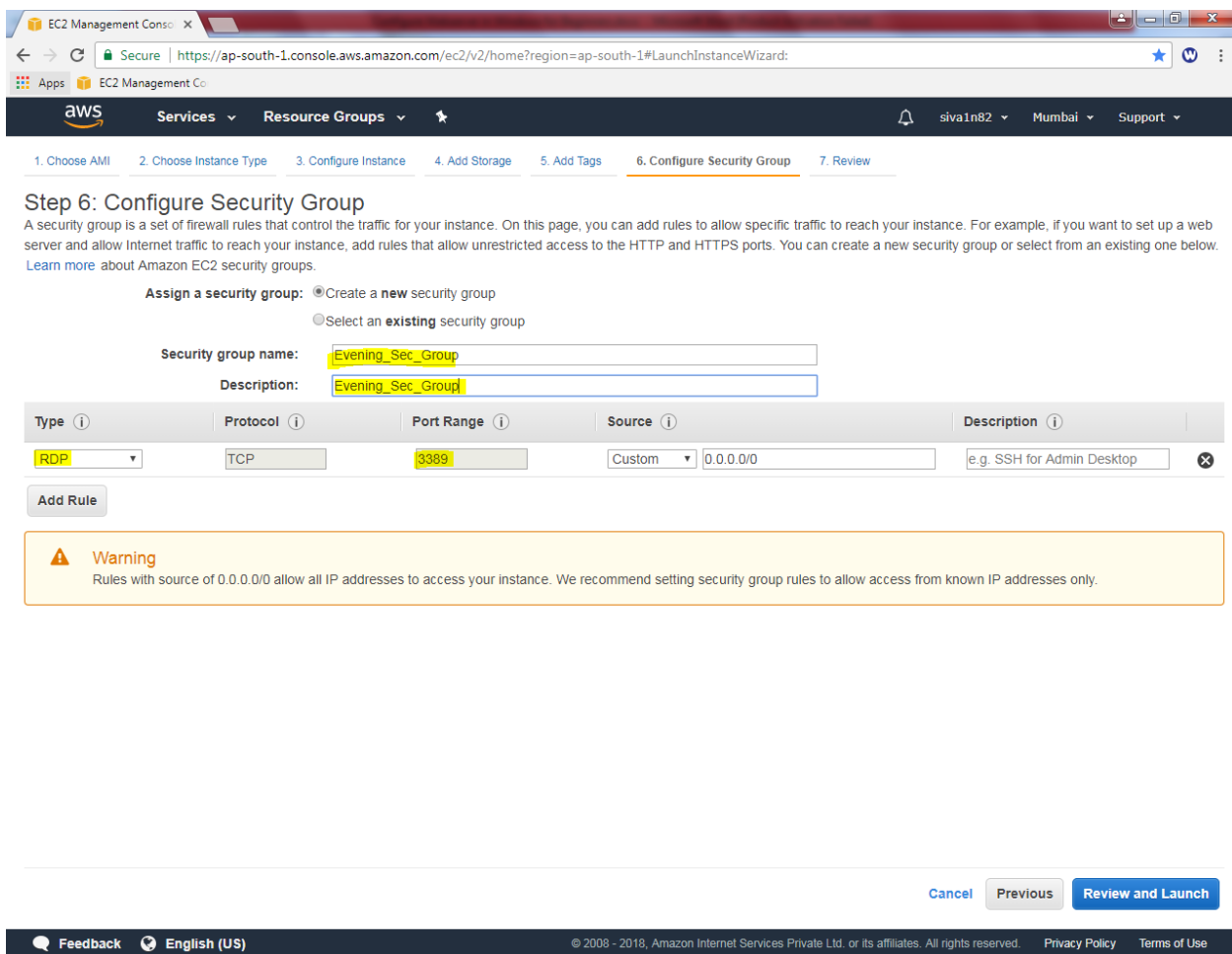
Key (127 characters maximum)	Value (255 characters maximum)	Instances ⁱ	Volumes ⁱ	
Name	Windows 2016 instance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="button" value="X"/>

(Up to 50 tags maximum)

At the bottom of the wizard, there are buttons: , , (highlighted in blue), and .

The footer contains a Feedback icon, English (US) language selector, and copyright information: © 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use.

In Security group, create a new security group and type security group name as “Evening_Sec_Group” and description as “Evening_Sec_Group”. You can able to view that RDP port is permitted in Security group for manage the instance remotely.



EC2 Management Console

Secure | https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:

Apps EC2 Management Console

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 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

Add Rule

Warning

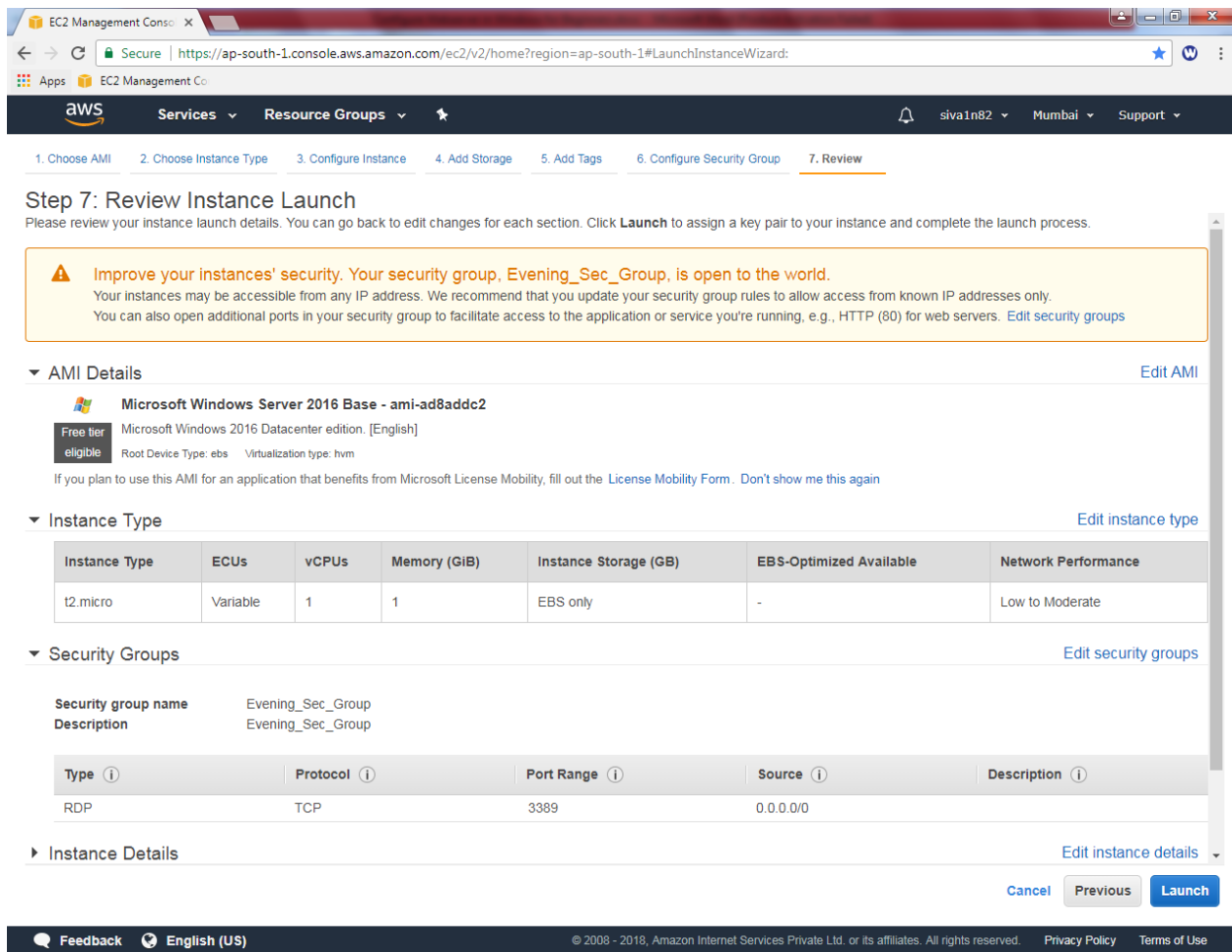
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous **Review and Launch**

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Click “Review and launch”.

Leave default settings and Click “Launch”.



EC2 Management Console

Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:>

Apps EC2 Management Co

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 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, Evening_Sec_Group, 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 2016 Base - ami-ad8addc2

Free tier eligible Microsoft Windows 2016 Datacenter edition. [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 [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](#)

Security group name: Evening_Sec_Group

Description: Evening_Sec_Group

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

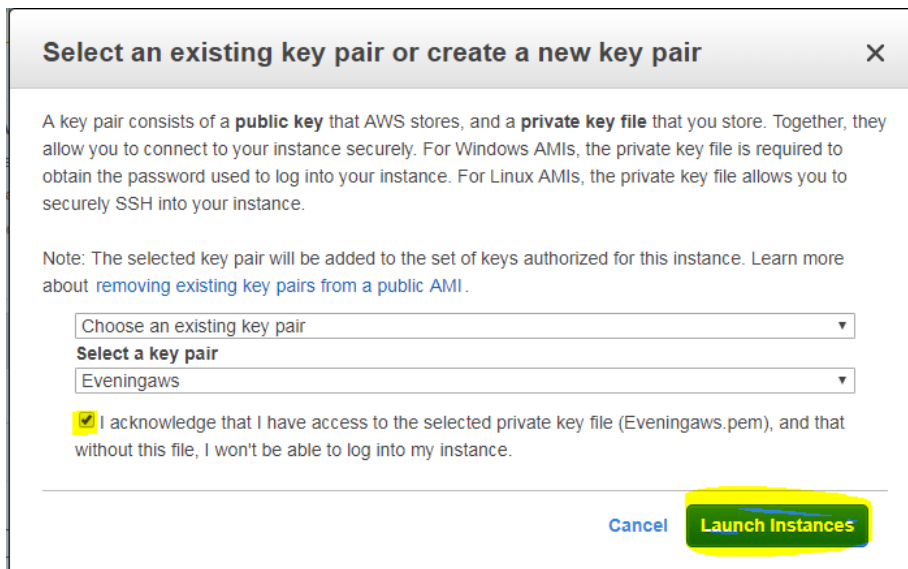
► Instance Details [Edit instance details](#)

[Cancel](#) [Previous](#) [Launch](#)

Feedback English (US)

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While click “Launch” button, it prompts to select Key pair or create a new key pair option.



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

Eveningaws ▼

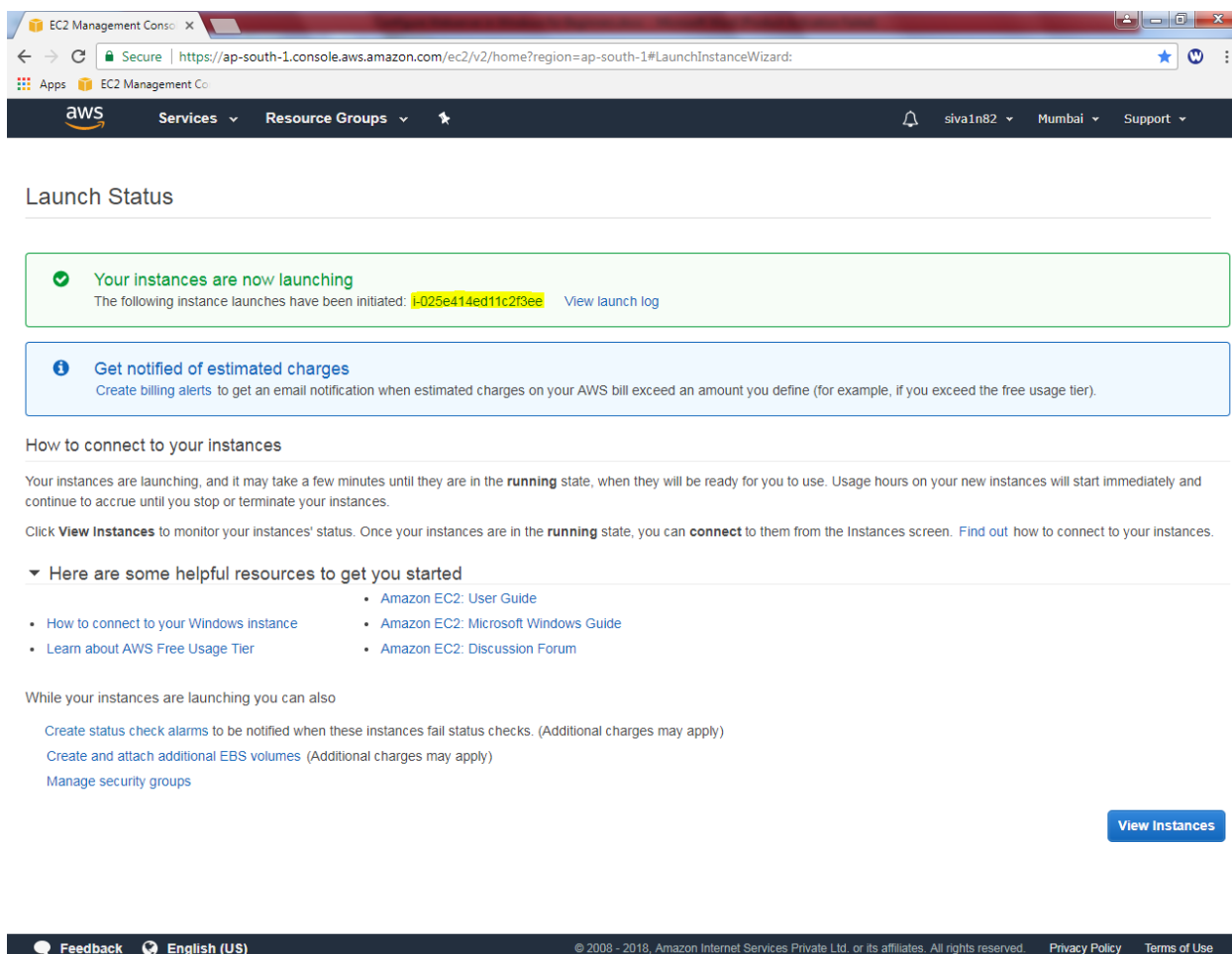
☒ I acknowledge that I have access to the selected private key file (Eveningaws.pem), and that without this file, I won't be able to log into my instance.

Cancel Launch Instances

Select the choose an existing key pair if you have already downloaded *.pem file. Otherwise click create a new key pair. We have already key with us, hence I have selected choose an existing key pair option. And select the “Eveningaws” key from drop down box. Then click “I acknowledge”.

Click “launch instance”.

Now you have created an instance and launched successfully. Click the highlighted area or view instance to view the windows 2016 server instance.



The screenshot shows the AWS Management Console interface. At the top, the browser address bar displays the URL: <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard>. The console header includes the AWS logo, navigation tabs for Services and Resource Groups, and user information for 'siva1n82' in the 'Mumbai' region. The main content area is titled 'Launch Status' and contains two informational boxes. The first box, with a green checkmark, states 'Your instances are now launching' and lists the instance ID 'i-025e414ed11c2f3ee' with a link to 'View launch log'. The second box, with an information icon, says 'Get notified of estimated charges' and provides instructions on creating billing alerts. Below these boxes, a section titled 'How to connect to your instances' explains the process and provides a link to 'View Instances'. A 'Here are some helpful resources to get you started' section lists links to the Amazon EC2 User Guide, Microsoft Windows Guide, Discussion Forum, and information on connecting to Windows instances and the Free Usage Tier. At the bottom, there are links for creating status check alarms, attaching EBS volumes, and managing security groups. A blue 'View Instances' button is located in the bottom right corner of the main content area. The footer of the console includes a Feedback link, the language set to English (US), and copyright information for Amazon Internet Services Private Ltd.


EC2 Management Console


Secure | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard>

Apps EC2 Management Console

aws Services Resource Groups siva1n82 Mumbai Support

Launch Status

 **Your instances are now launching**
The following instance launches have been initiated: **i-025e414ed11c2f3ee** [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

- [Amazon EC2: User Guide](#)
- [How to connect to your Windows instance](#)
- [Amazon EC2: Microsoft Windows Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

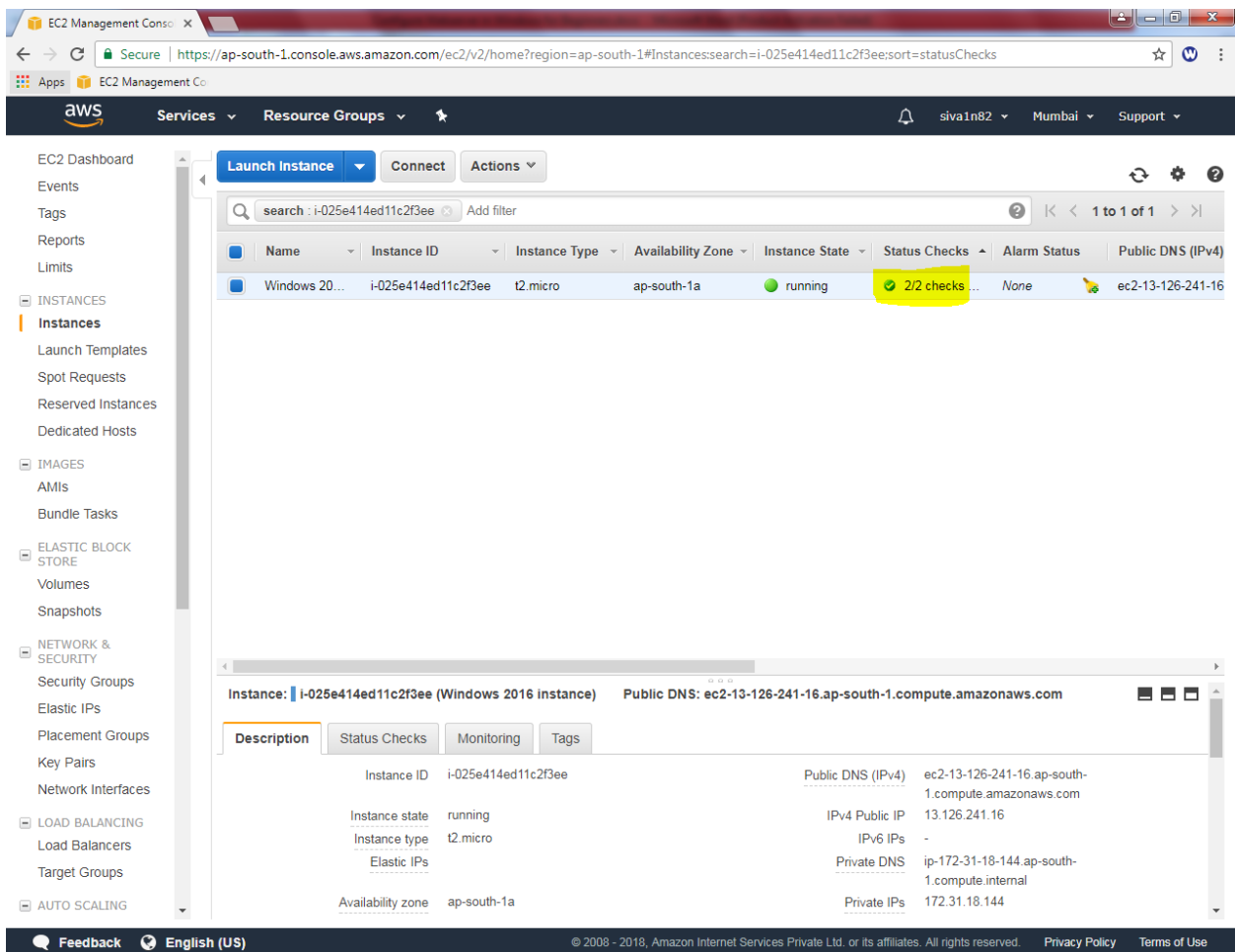
While your instances are launching you can also

- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- [Create and attach additional EBS volumes](#) (Additional charges may apply)
- [Manage security groups](#)

[View Instances](#)

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Please wait up to the status checks becomes 2/2 checks.



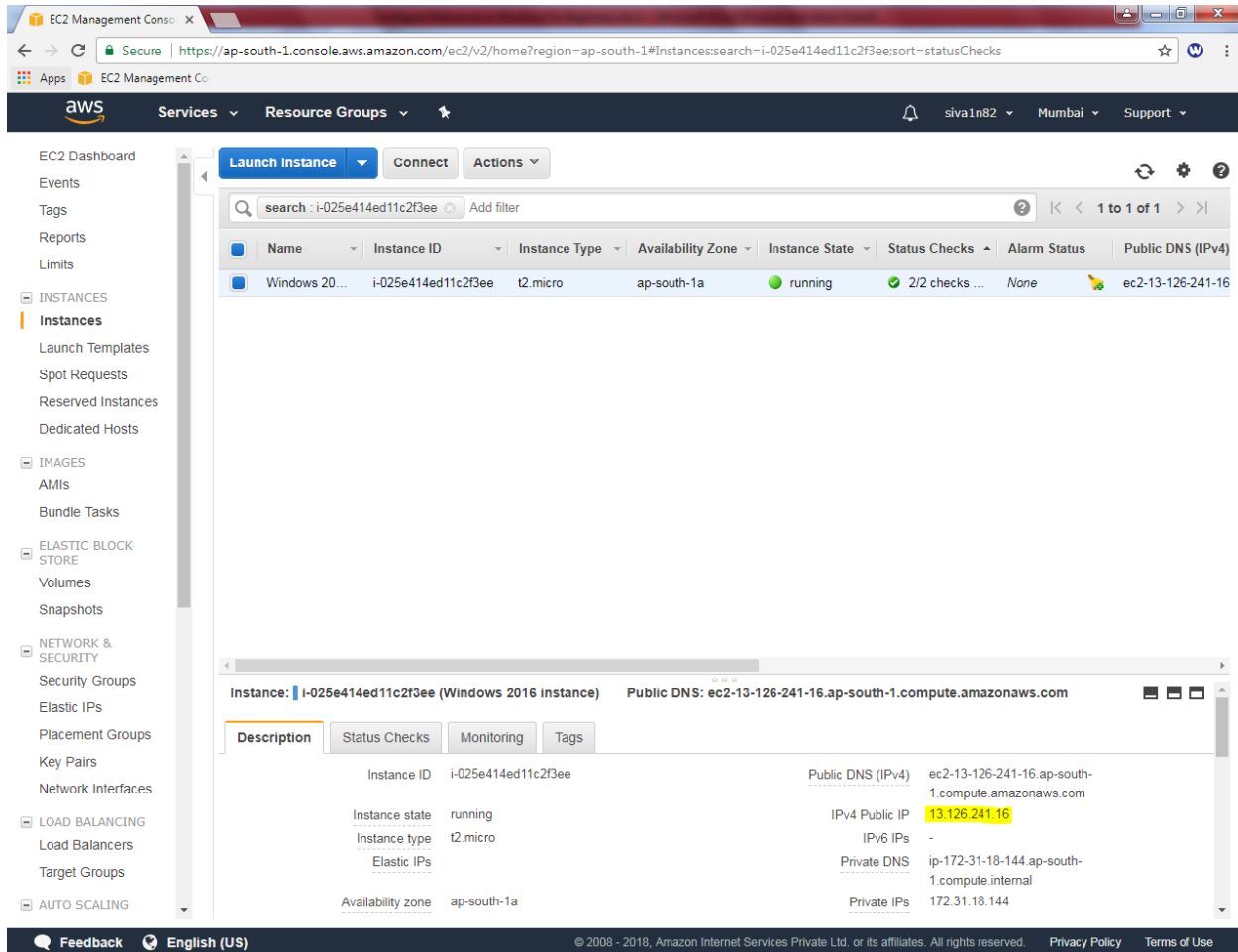
The screenshot shows the AWS Management Console for the EC2 service. The left sidebar contains navigation links for various AWS services. The main content area displays a list of EC2 instances. One instance, 'Windows 20...', is highlighted, and its details are shown in the 'Description' tab. The 'Status Checks' section indicates that both status checks have passed (2/2 checks).

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Windows 20...	i-025e414ed11c2f3ee	t2.micro	ap-south-1a	running	2/2 checks	None	ec2-13-126-241-16

Instance Details: i-025e414ed11c2f3ee (Windows 2016 instance) Public DNS: ec2-13-126-241-16.ap-south-1.compute.amazonaws.com

Property	Value
Instance ID	i-025e414ed11c2f3ee
Instance state	running
Instance type	t2.micro
Elastic IPs	-
Availability zone	ap-south-1a
Public DNS (IPv4)	ec2-13-126-241-16.ap-south-1.compute.amazonaws.com
IPv4 Public IP	13.126.241.16
IPv6 IPs	-
Private DNS	ip-172-31-18-144.ap-south-1.compute.internal
Private IPs	172.31.18.144

We can able to view the public ip for the windows 2016 server as below.

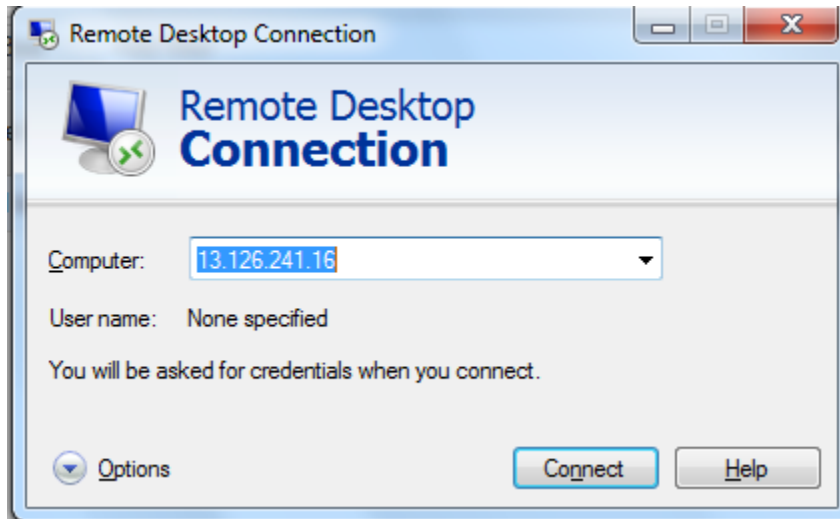


The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts, IMAGES, AMIs, Bundle Tasks, ELASTIC BLOCK STORE, Volumes, Snapshots, NETWORK & SECURITY, Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, LOAD BALANCING, Load Balancers, Target Groups, and AUTO SCALING. The main content area displays a table of EC2 instances. The instance 'Windows 2016' with ID 'i-025e414ed11c2f3ee' is highlighted. Below the table, the instance details are shown, including the Public DNS (IPv4) address 'ec2-13-126-241-16.ap-south-1.compute.amazonaws.com' and the IPv4 Public IP address '13.126.241.16'.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Windows 20...	i-025e414ed11c2f3ee	t2.micro	ap-south-1a	running	2/2 checks ...	None	ec2-13-126-241-16

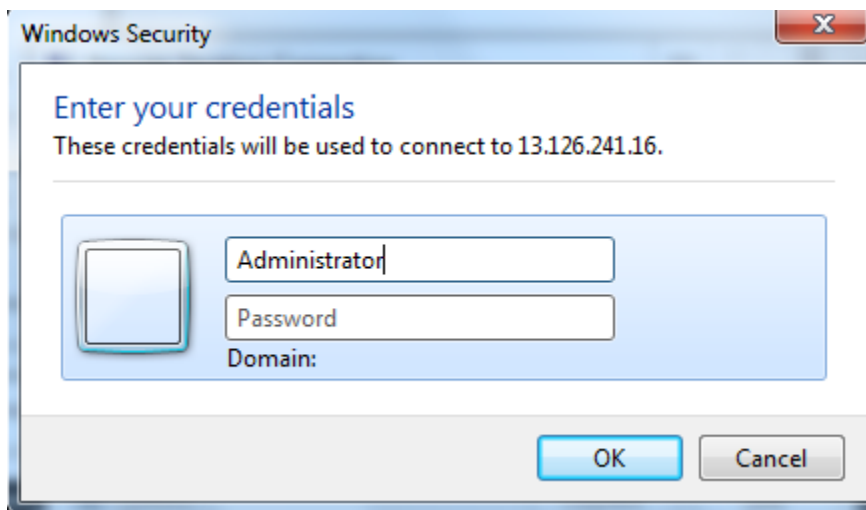
Instance: i-025e414ed11c2f3ee (Windows 2016 instance)		Public DNS: ec2-13-126-241-16.ap-south-1.compute.amazonaws.com	
Description			
Instance ID	i-025e414ed11c2f3ee	Public DNS (IPv4)	ec2-13-126-241-16.ap-south-1.compute.amazonaws.com
Instance state	running	IPv4 Public IP	13.126.241.16
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-18-144.ap-south-1.compute.internal
Availability zone	ap-south-1a	Private IPs	172.31.18.144

Try to connect the IP, from your local machine by using mstsc in run command.

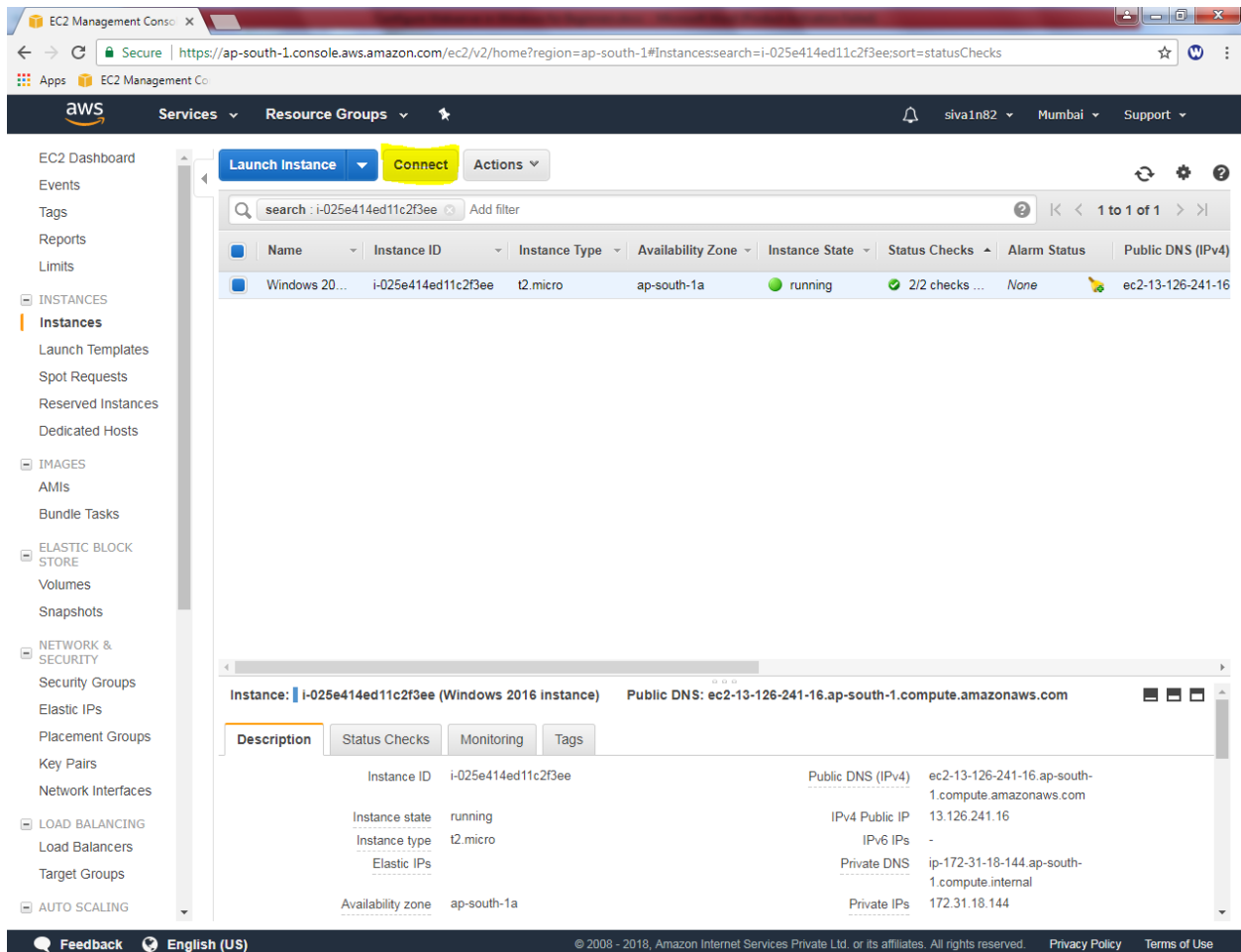


It prompts, password

Username : Administrator



We need to get the password, select the instance and then click “Connect”.



The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts, IMAGES, AMIs, Bundle Tasks, ELASTIC BLOCK STORE, Volumes, Snapshots, NETWORK & SECURITY, Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, LOAD BALANCING, Load Balancers, Target Groups, and AUTO SCALING. The main content area displays a table of EC2 instances. The instance i-025e414ed11c2f3ee is selected, and its details are shown below the table. The instance is a Windows 2016 instance, running in the ap-south-1a availability zone. The public DNS is ec2-13-126-241-16.ap-south-1.compute.amazonaws.com. The instance state is running, and the instance type is t2.micro. The elastic IPs are 172.31.18.144 and 172.31.18.144. The instance is associated with the security group sg-0a1b2c3d4e5f6g7h8.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Windows 20...	i-025e414ed11c2f3ee	t2.micro	ap-south-1a	running	2/2 checks ...	None	ec2-13-126-241-16

Instance: i-025e414ed11c2f3ee (Windows 2016 instance) Public DNS: ec2-13-126-241-16.ap-south-1.compute.amazonaws.com

Description	Status Checks	Monitoring	Tags
Instance ID	i-025e414ed11c2f3ee	Public DNS (IPv4)	ec2-13-126-241-16.ap-south-1.compute.amazonaws.com
Instance state	running	IPv4 Public IP	13.126.241.16
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-18-144.ap-south-1.compute.internal
Availability zone	ap-south-1a	Private IPs	172.31.18.144

Click “Get Password” button

Connect To Your Instance ✕

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	ec2-13-126-241-16.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](#)

Then click “Choose File” button, and locate the Eveningaws.pem file from the downloaded path.

Connect To Your Instance > Get Password

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

Key Name Eveningaws.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 No file chosen

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

Decrypt Password

Back

Close

Click "Decrypt password"

Connect To Your Instance > Get Password

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

Key Name Eveningaws.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 Eveningaws.pem

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

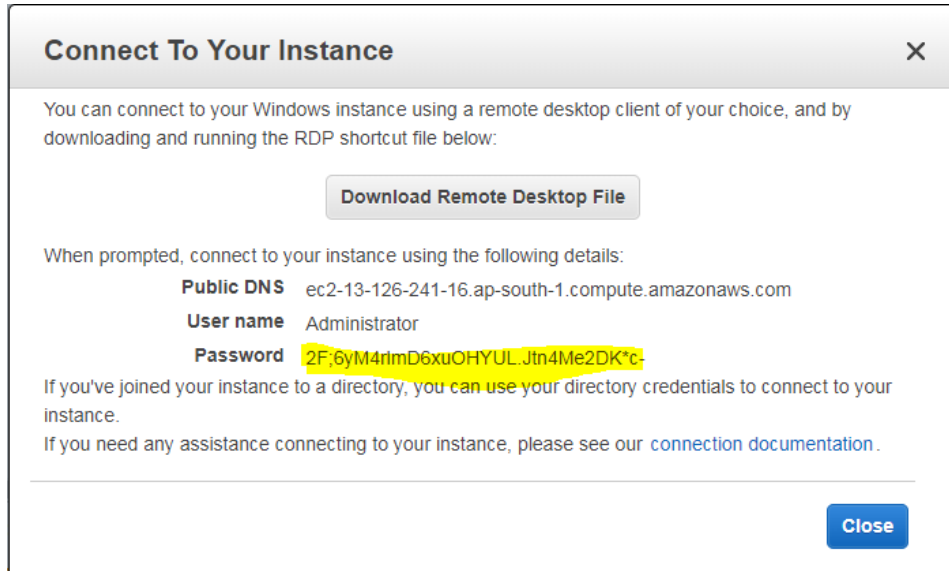
-----BEGIN RSA PRIVATE KEY-----
MIIIEowIBAAKCAQEAgj+h2SSjdtK5CxlM3CnlHtf/5xMKV/BKXNmifwc3v70wZ1PleR9VhcKeg6ok
zzQQ9u+QH3QF5RaxXNc2ELM+WQWdc2cHXH081YepMOU+HQUphOHv+ZO0MZI54MmiXXGjsHH
EuZw0
viZMJpZ6Spw8svcxYVhK4SWxYosY3x9W+pXAKTefncS7PVzmE0mancrERfXc4mmF9tCv5HI9suOj
tIBpOaaRY4kBdtZnrodfggQ3khs4HIGmuScSTdQL7FiBbXhI8N1embi93Arcm8YjMPA/xQZYHglJ

Decrypt Password

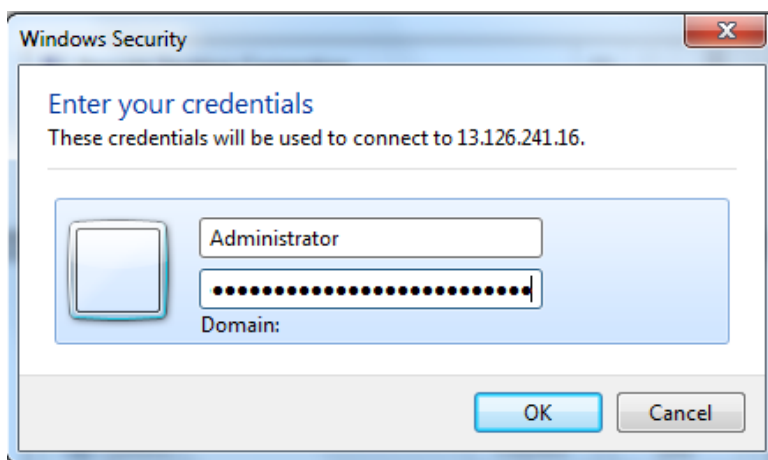
Back

Close

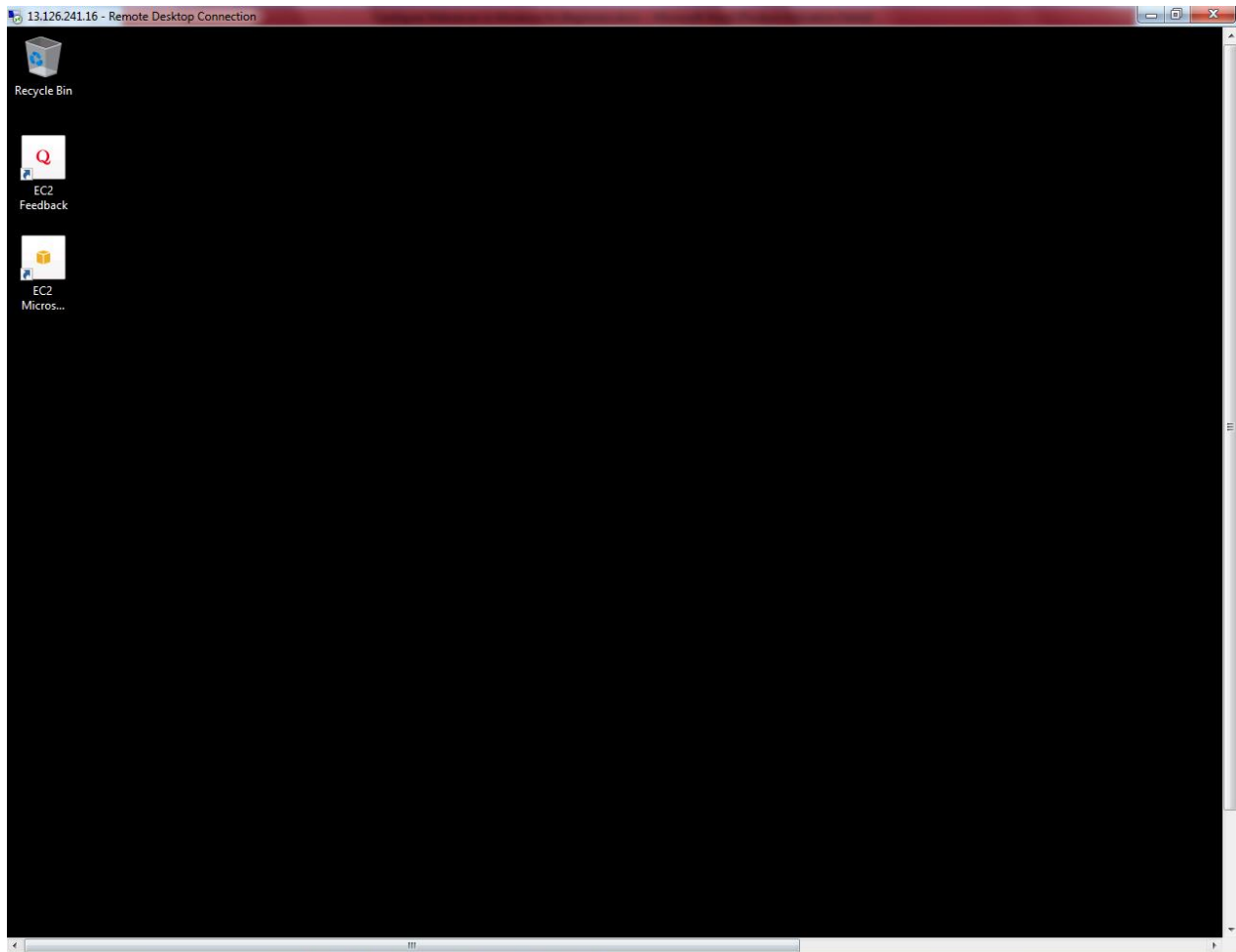
Please find the password for the Windows 2016 server as below.



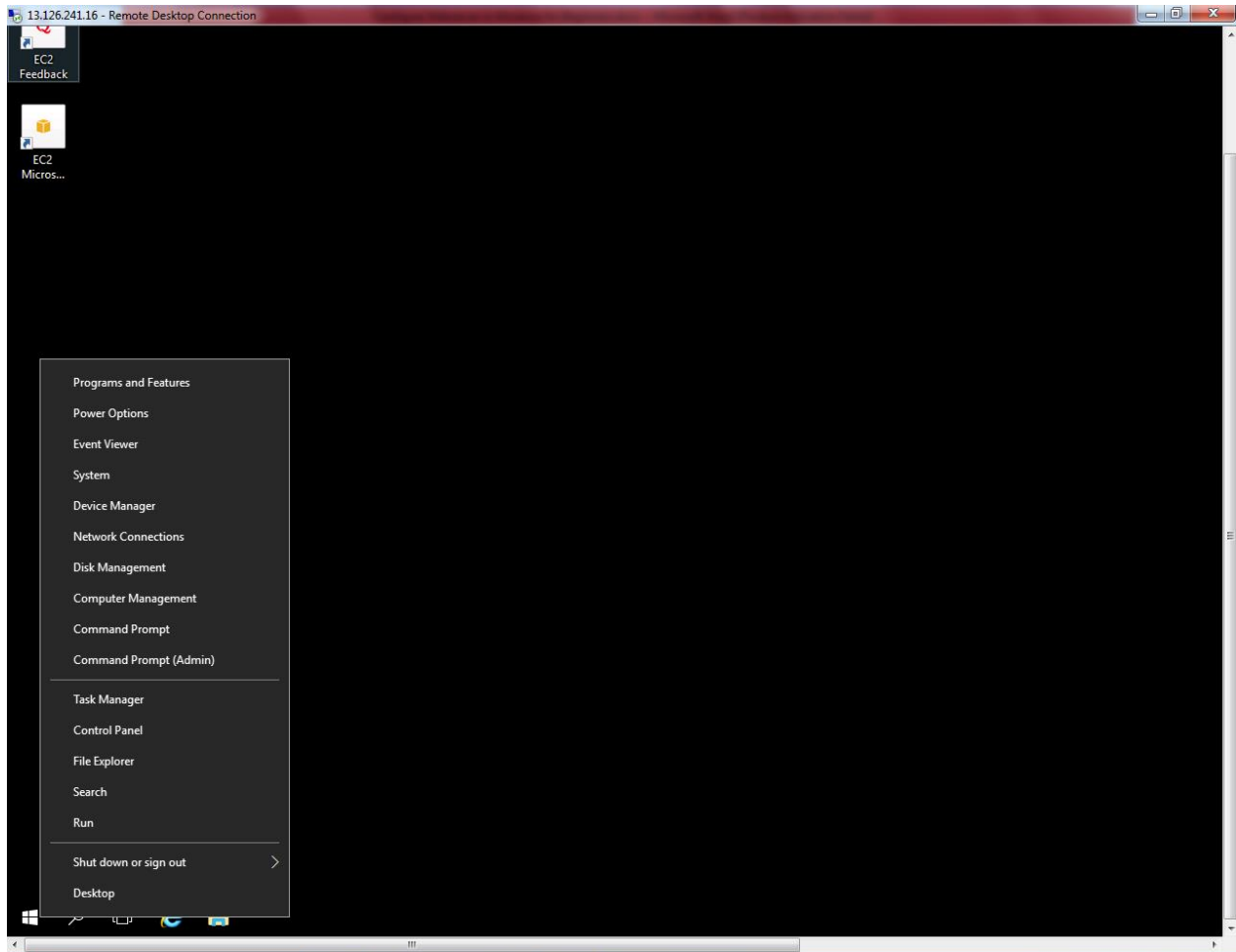
Now trying to connect the server by using above login credentials.



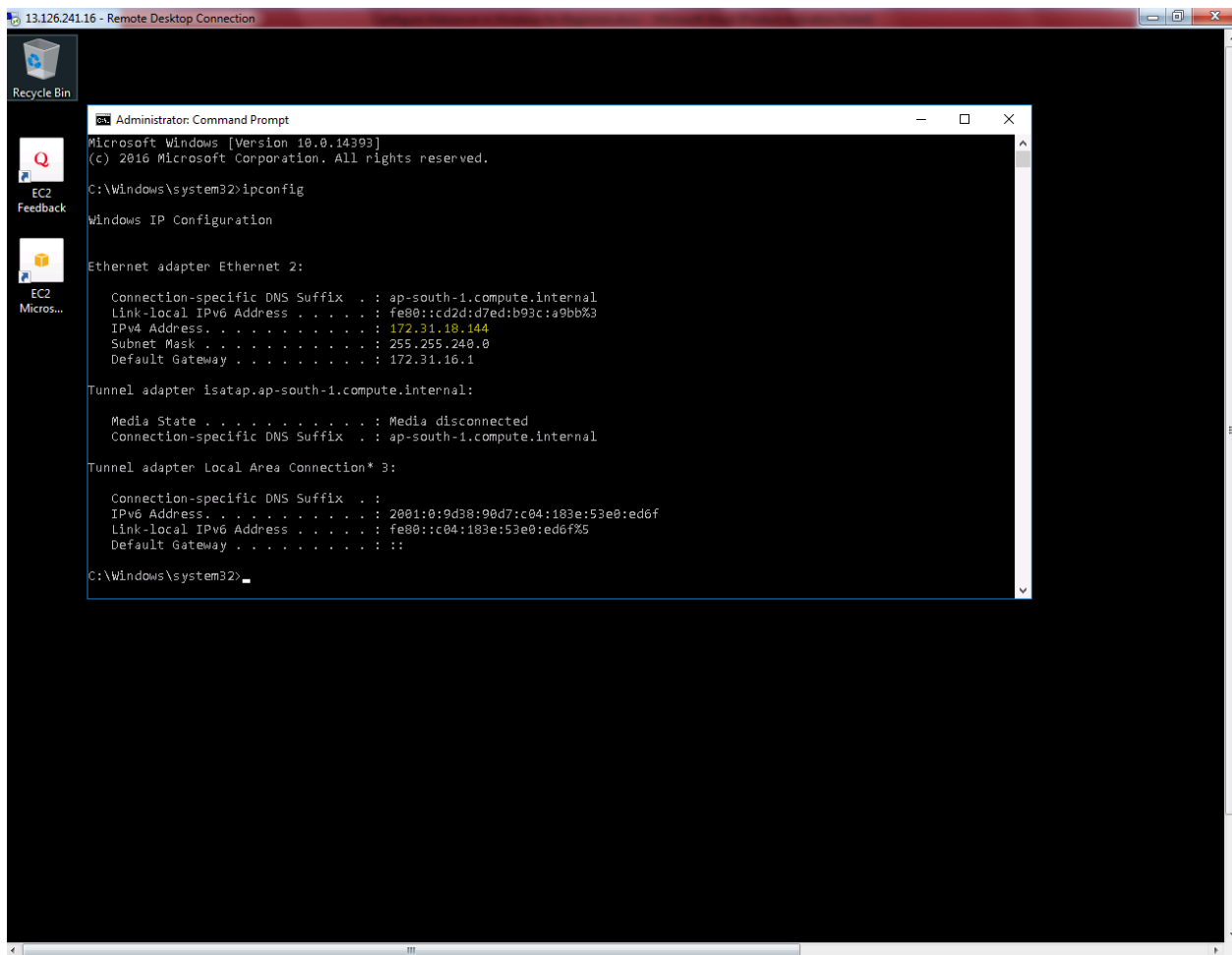
Now we have successfully logged into the server.



In start menu, right click then select command prompt.



In command prompt, type **ipconfig**



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Windows\system32>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet 2:

    Connection-specific DNS Suffix  . : ap-south-1.compute.internal
    Link-local IPv6 Address . . . . . : fe80::cd2d:d7ed:b93c:a9bb%3
    IPv4 Address. . . . . : 172.31.18.144
    Subnet Mask . . . . . : 255.255.240.0
    Default Gateway . . . . . : 172.31.16.1

Tunnel adapter isatap.ap-south-1.compute.internal:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : ap-south-1.compute.internal

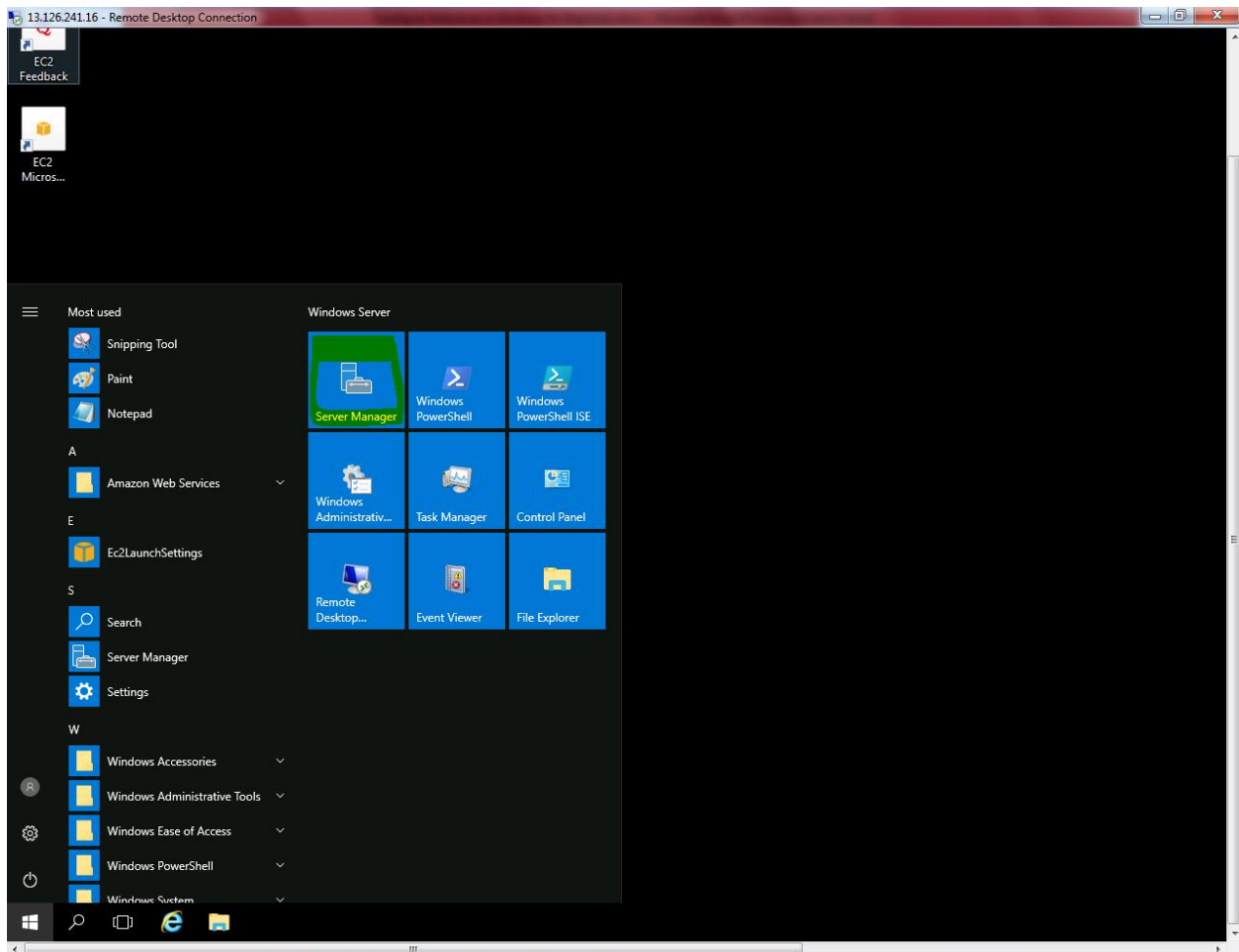
Tunnel adapter Local Area Connection* 3:

    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2001:0:9d38:98d7:c04:183e:53e0:ed6f
    Link-local IPv6 Address . . . . . : fe80::c04:183e:53e0:ed6f%5
    Default Gateway . . . . . :

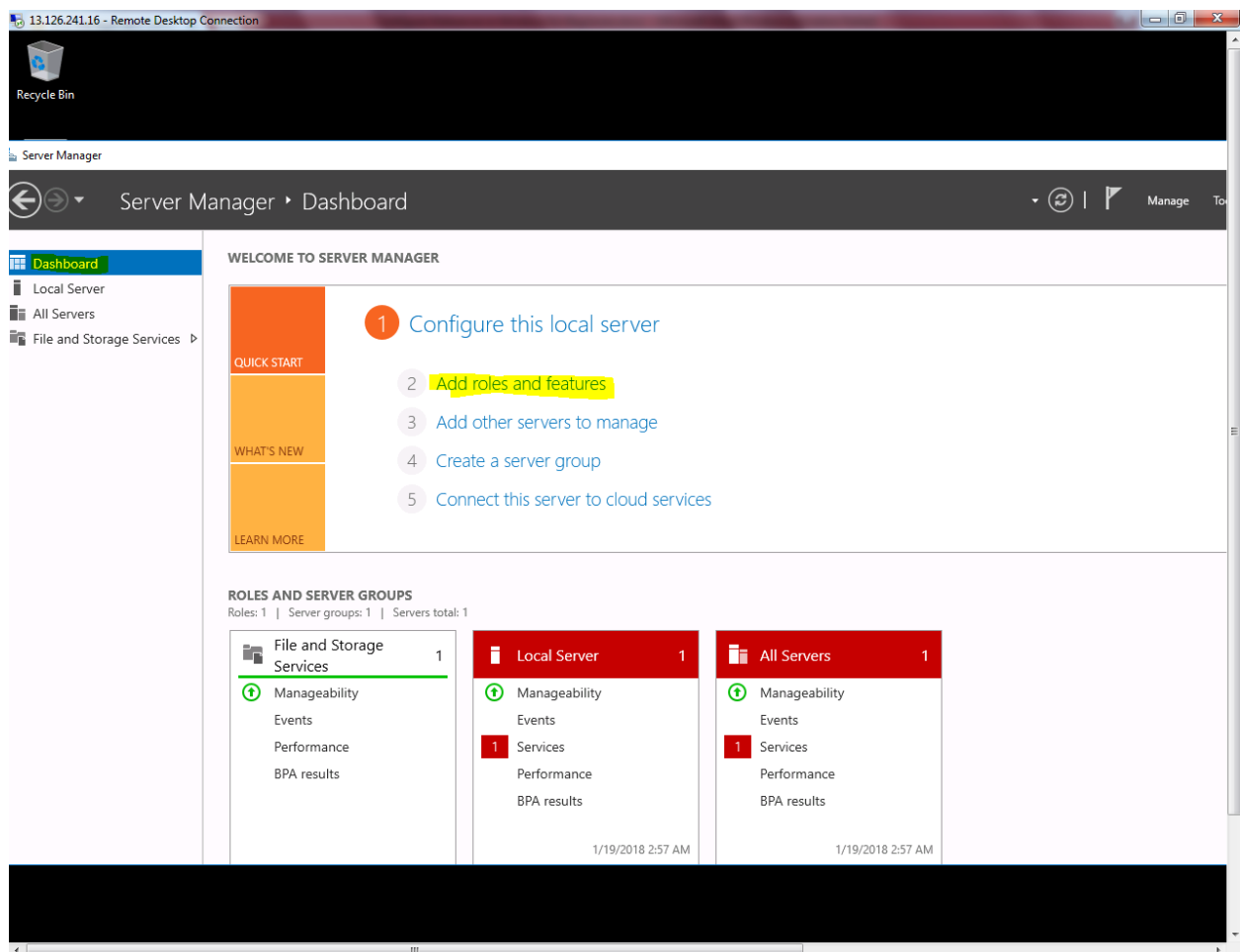
C:\Windows\system32>
```

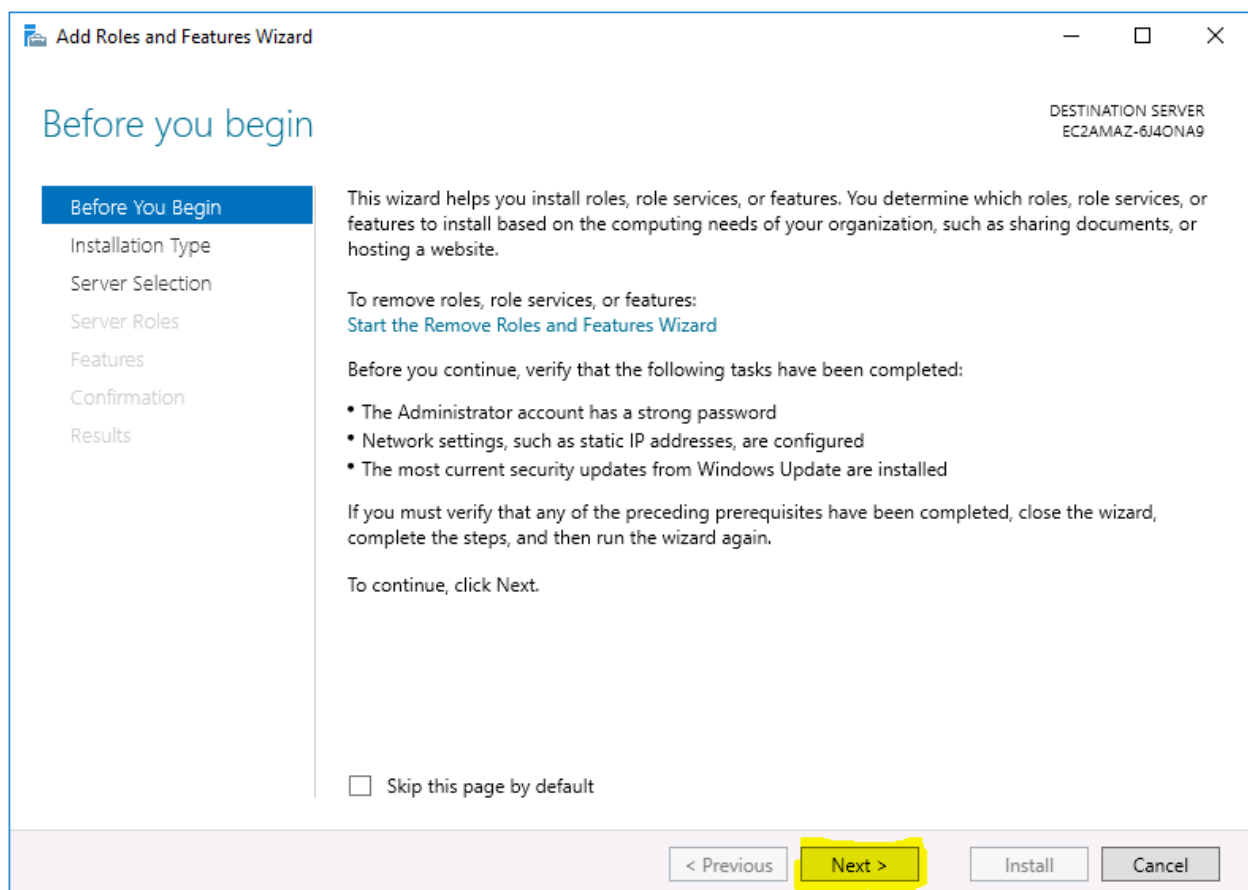
We can able to see the Private IP address of the Windows 2016 server.

Click “Server manager”.

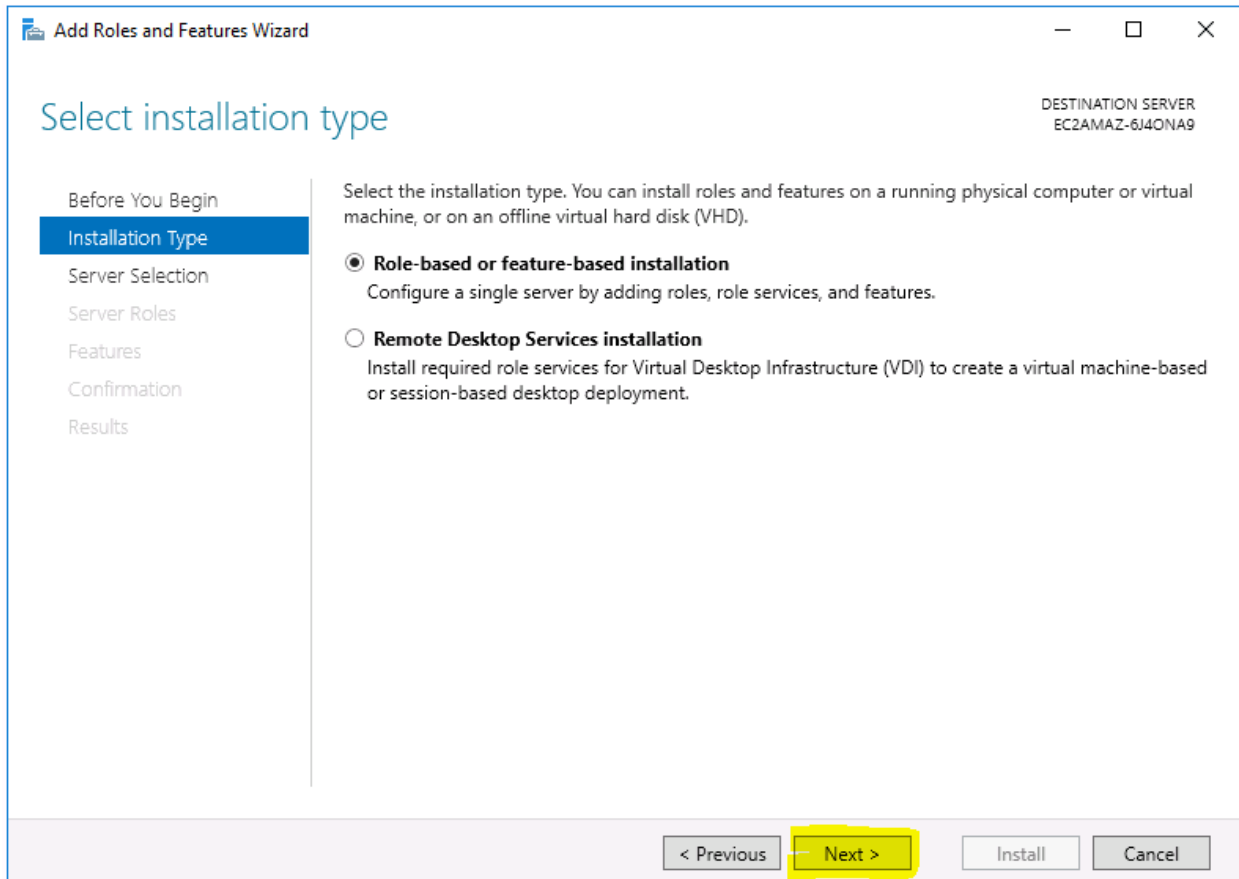


Click “Add Roles and features”





Click "Next".




DESTINATION SERVER
EC2AMAZ-6J4ONA9

Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

- ☒ **Role-based or feature-based installation**
Configure a single server by adding roles, role services, and features.
- ☐ **Remote Desktop Services installation**
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

< Previous **Next >** Install Cancel

Click "Next".

 Add Roles and Features Wizard

Select destination server

DESTINATION SERVER
EC2AMAZ-6J4ONA9

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

Select a server or a virtual hard disk on which to install roles and features.

☒ Select a server from the server pool
☐ Select a virtual hard disk

Server Pool

Filter:

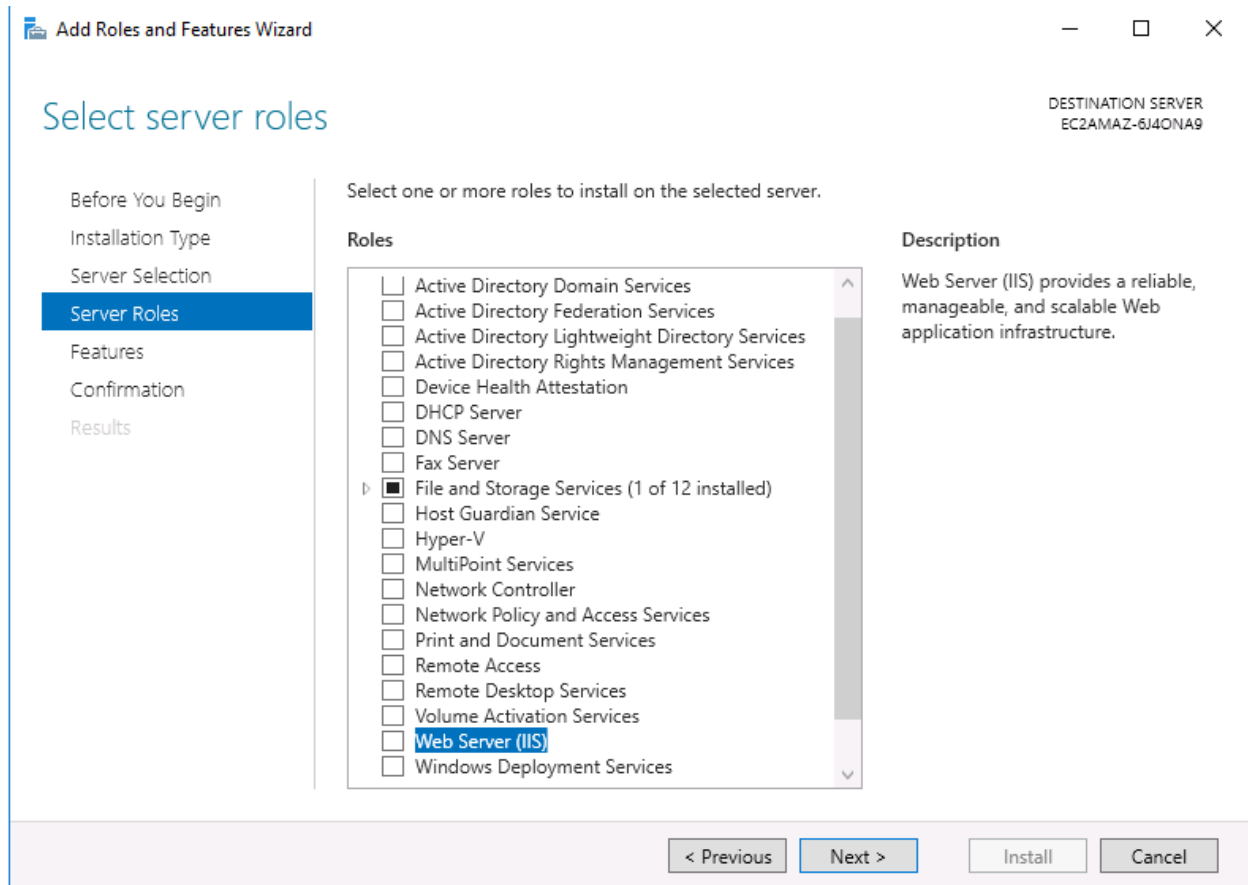
Name	IP Address	Operating System
EC2AMAZ-6J4ONA9	172.31.18.144	Microsoft Windows Server 2016 Datacenter

1 Computer(s) found

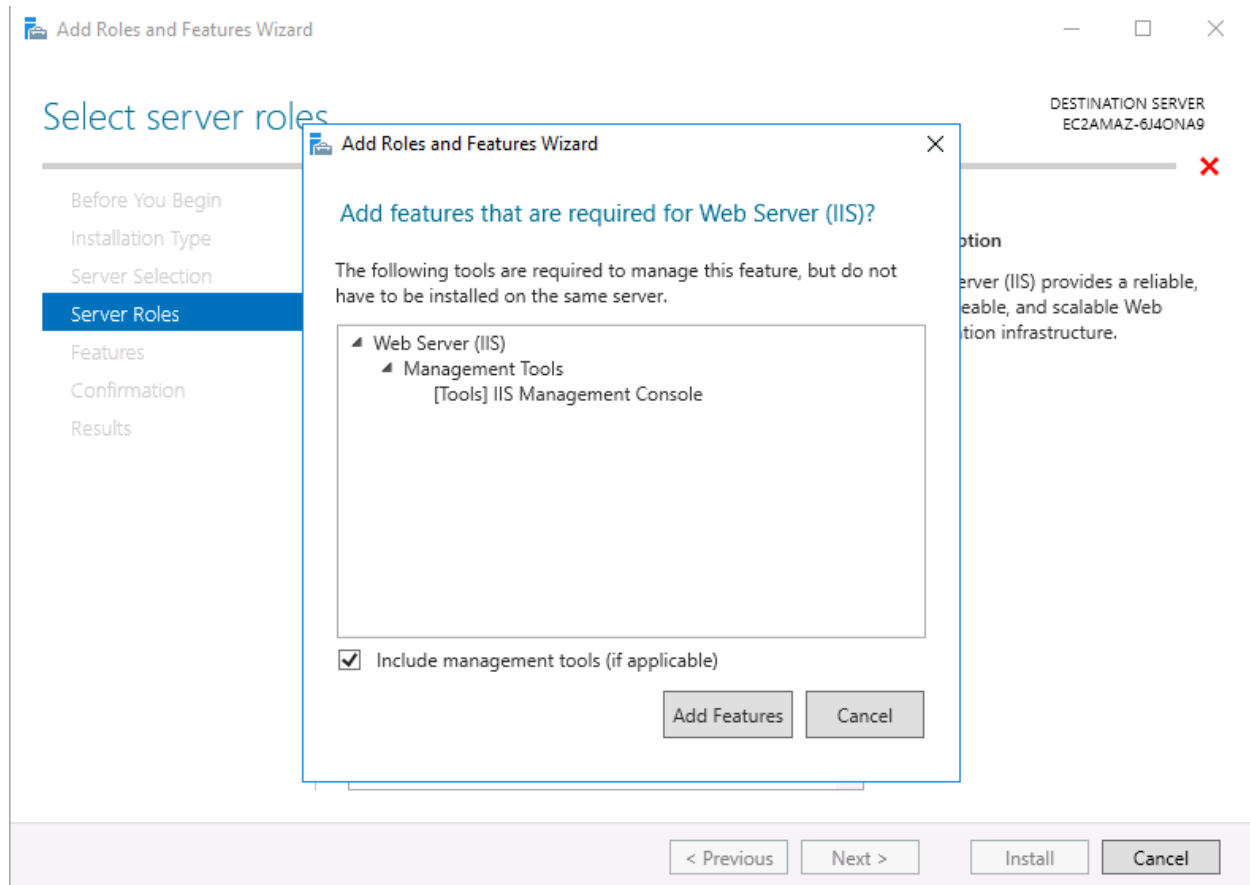
This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

< Previous **Next >** Install Cancel

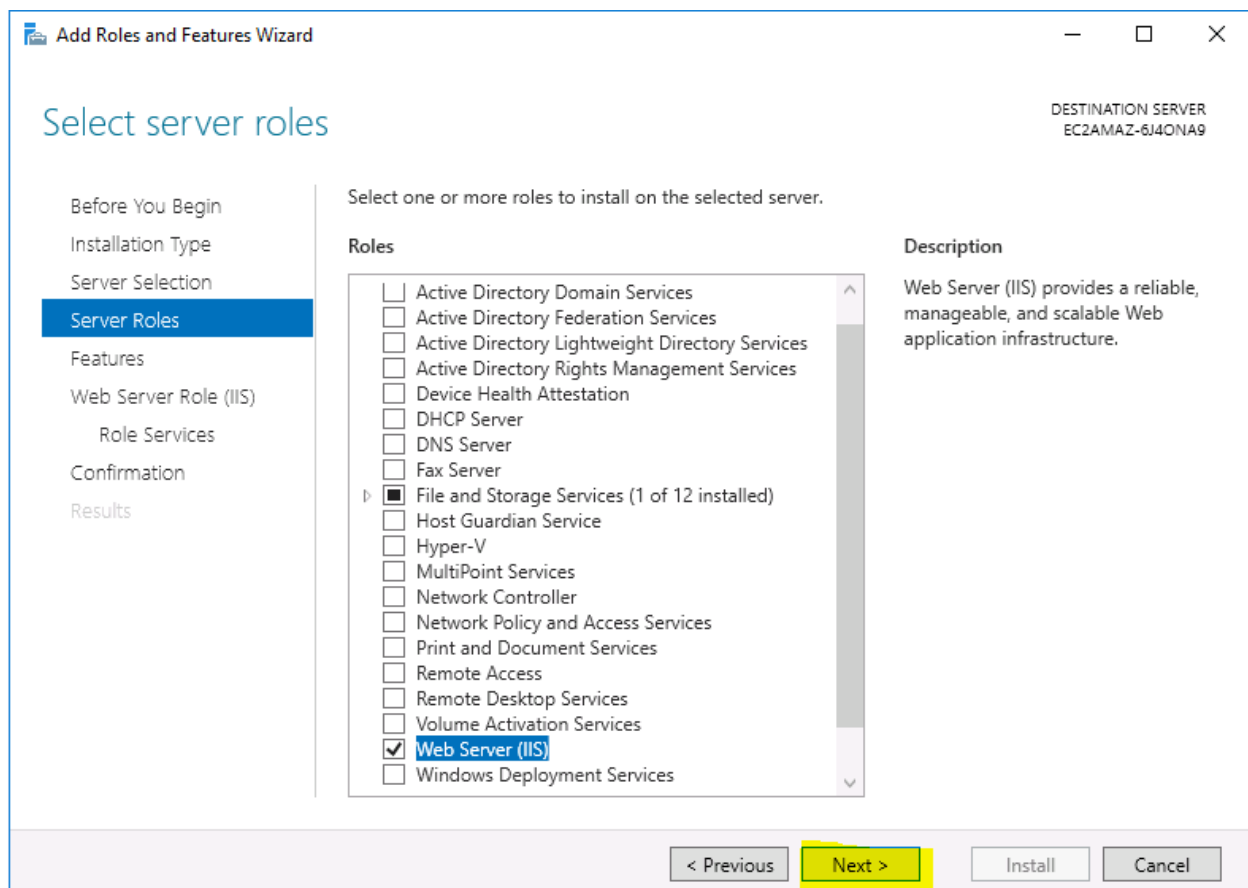
Click "Next".



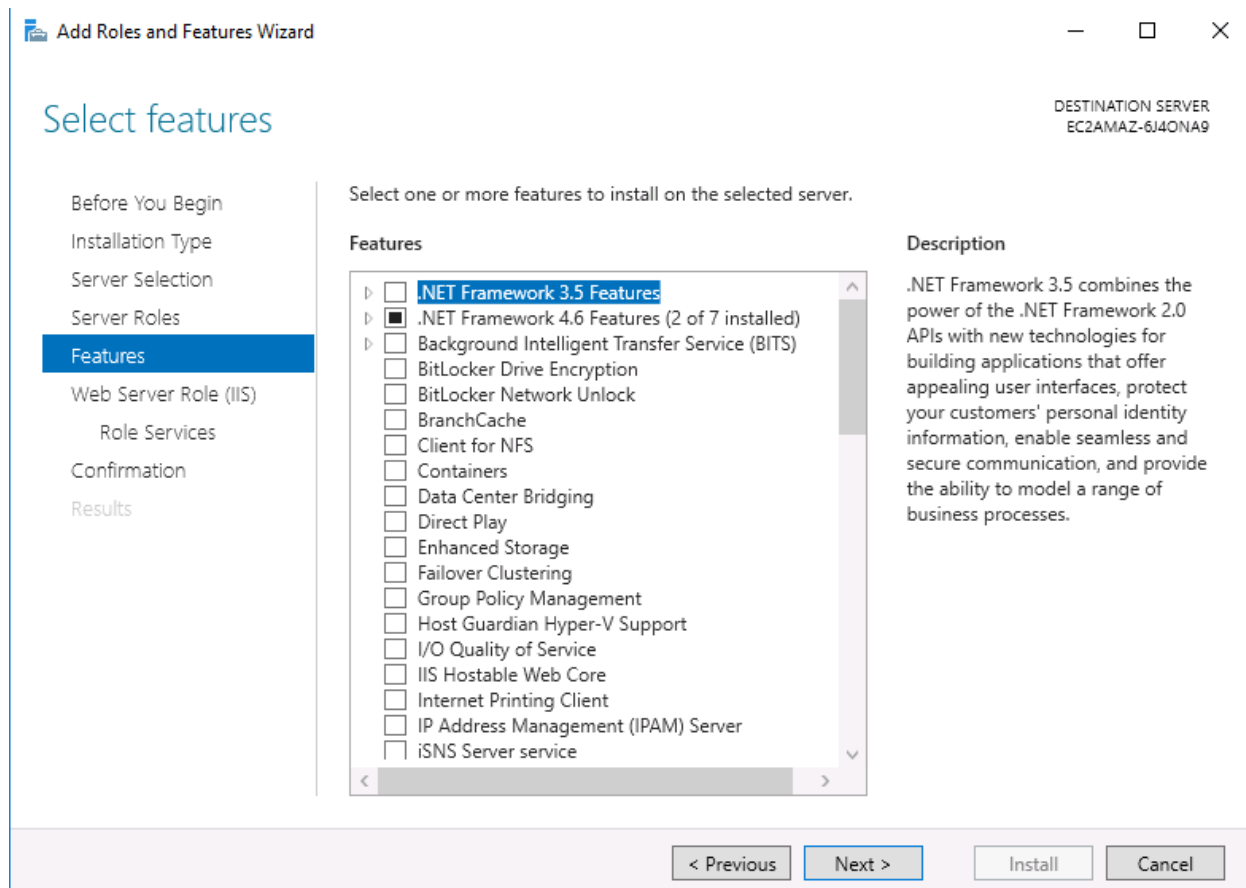
Check “Web server IIS” option button.



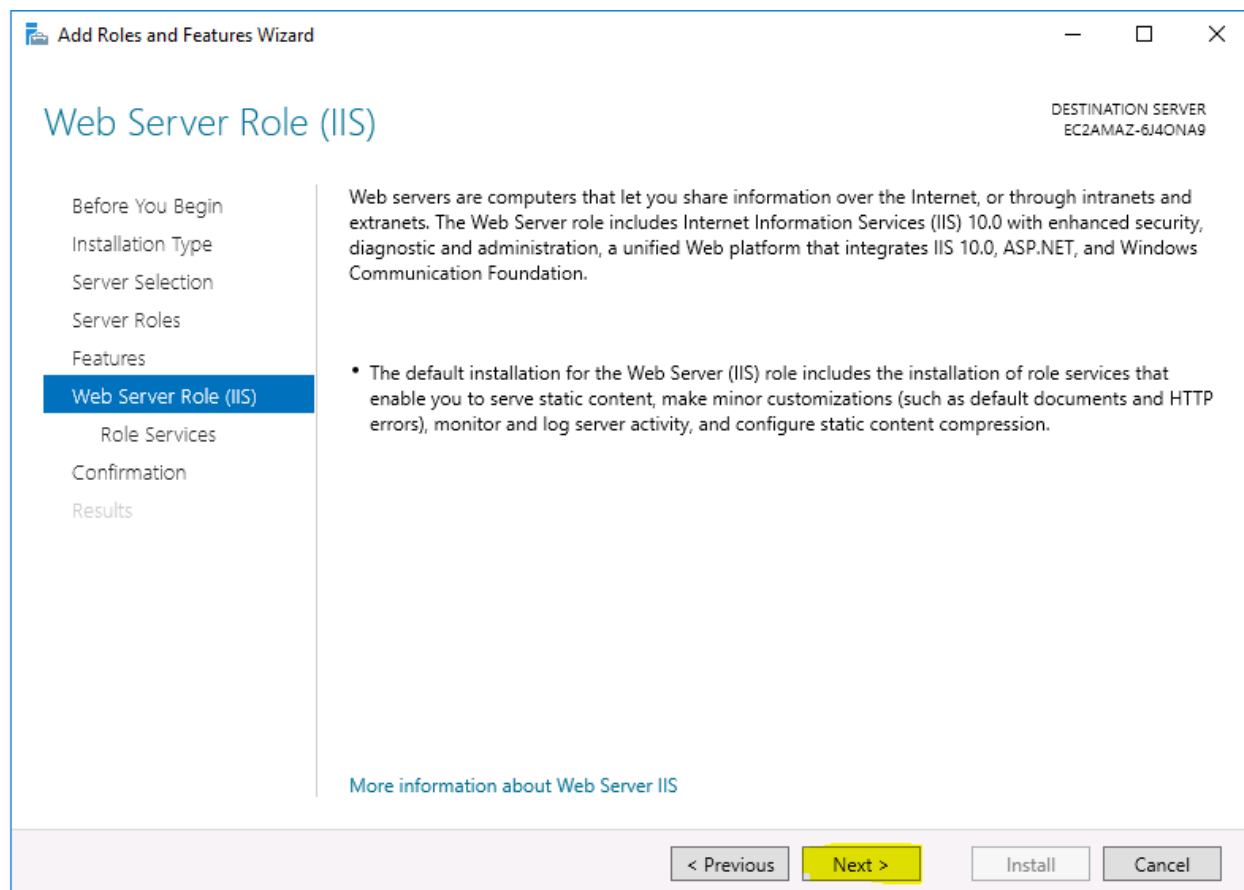
Click "Add features".



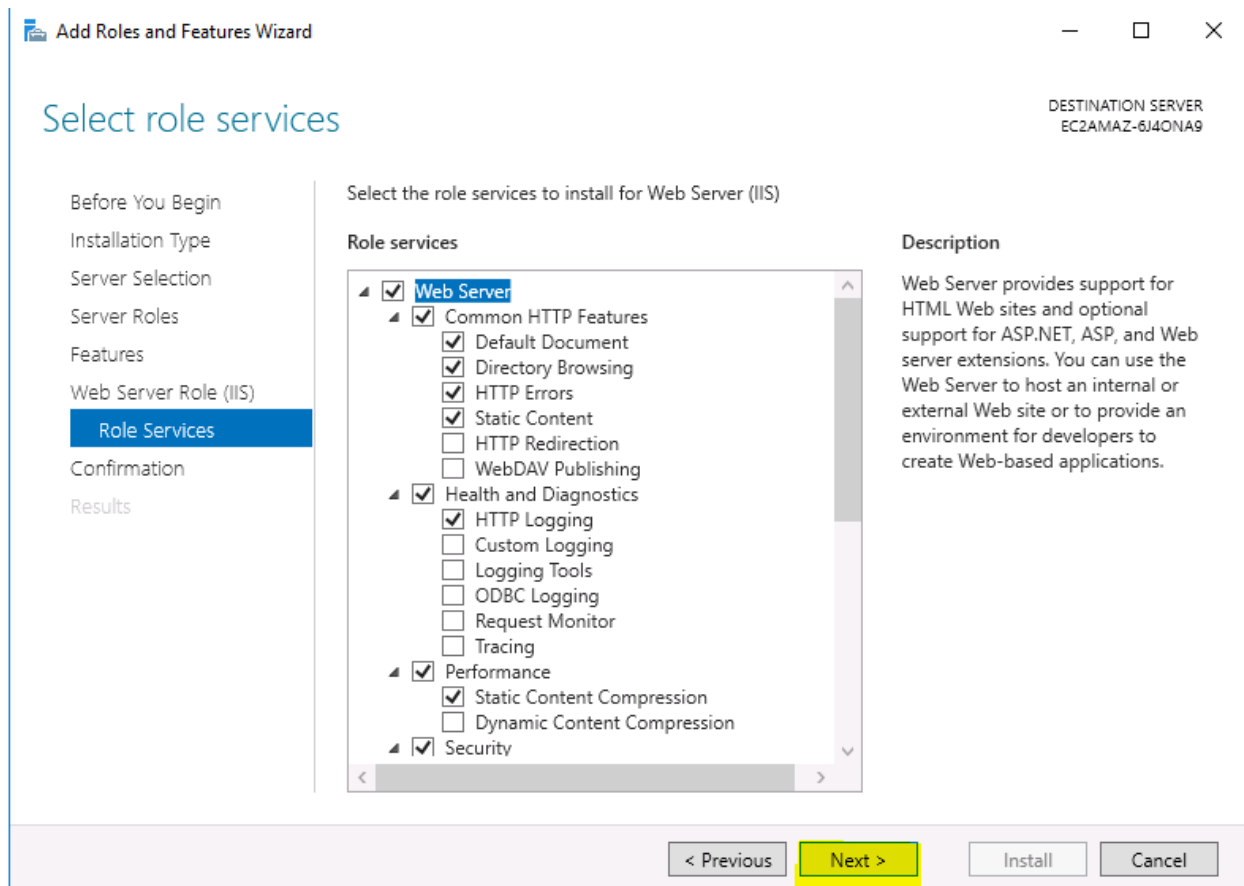
Click "Next".



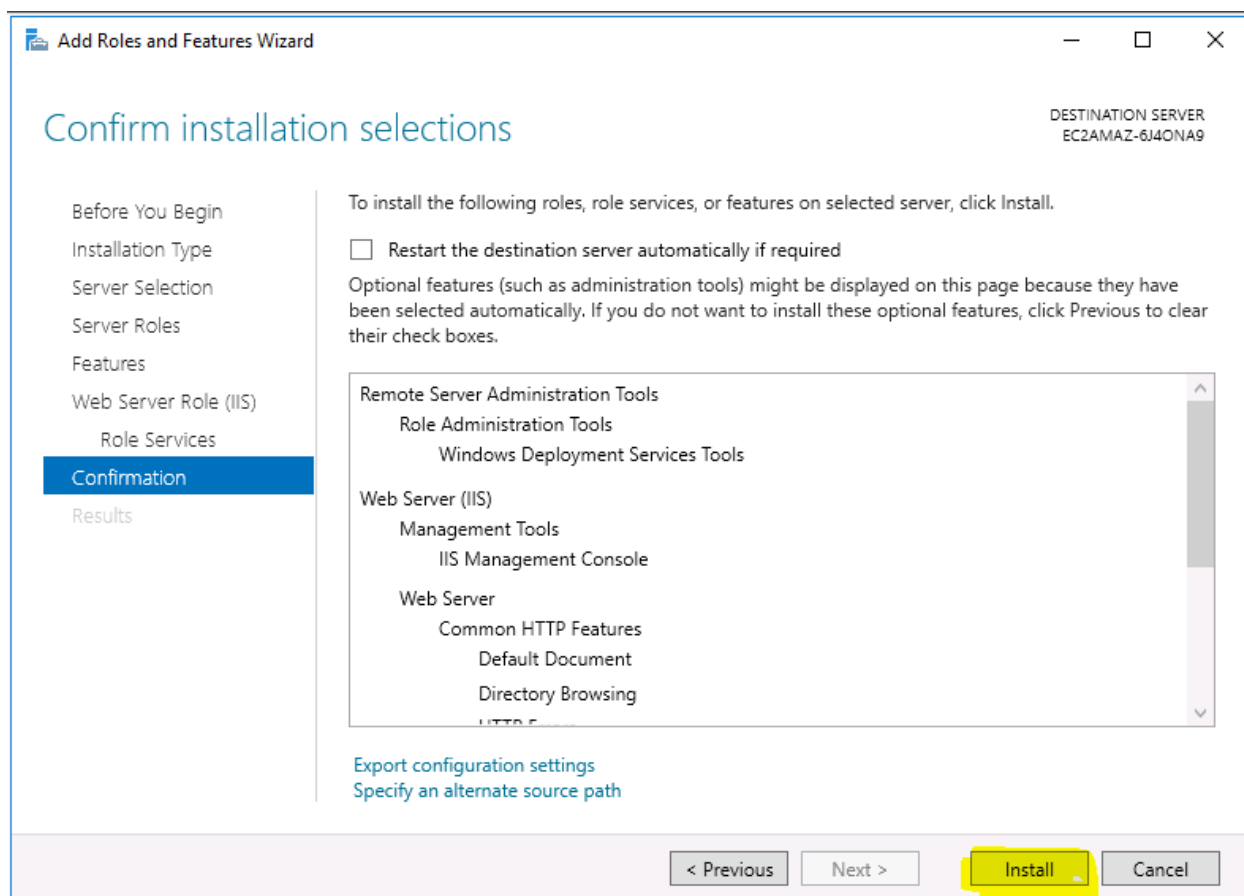
Click "Next".



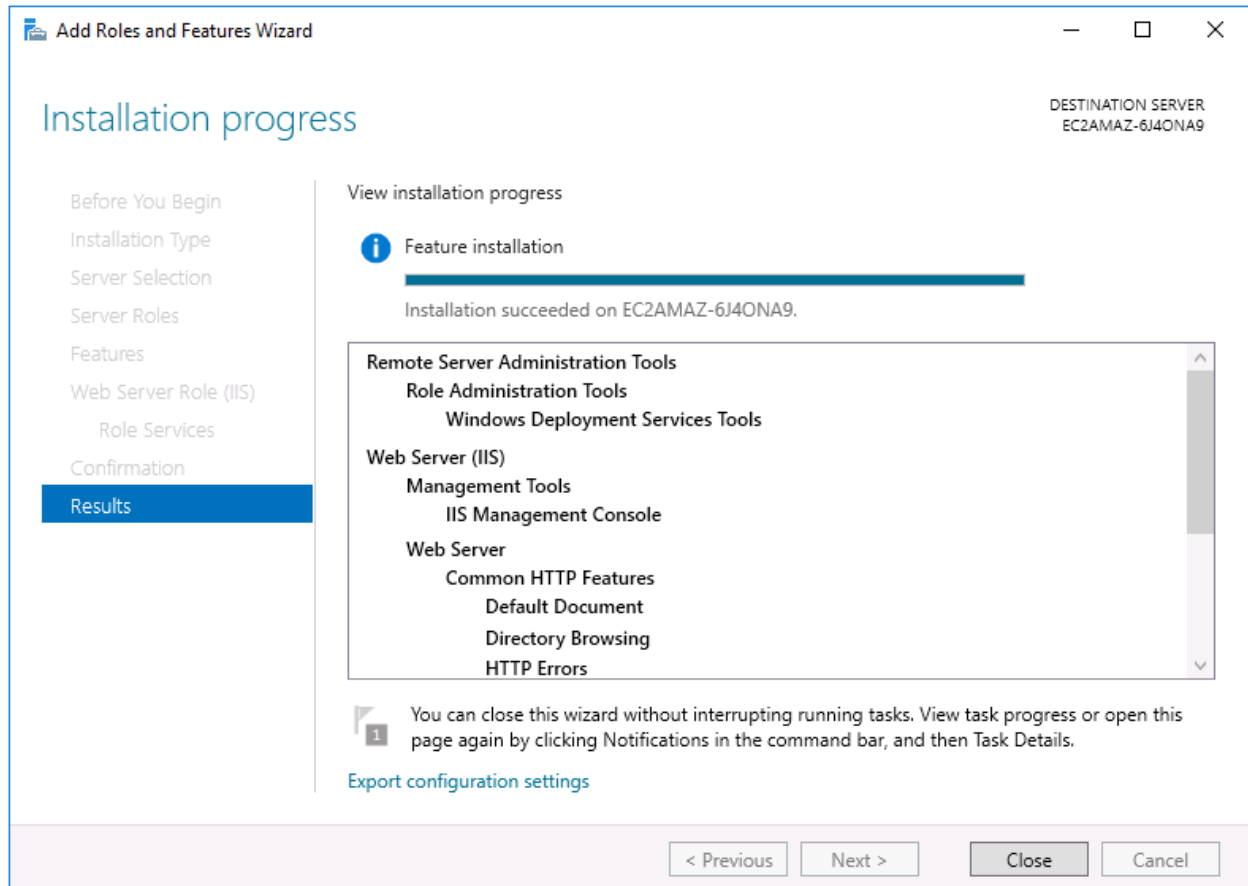
Click "Next".



Click "Next".

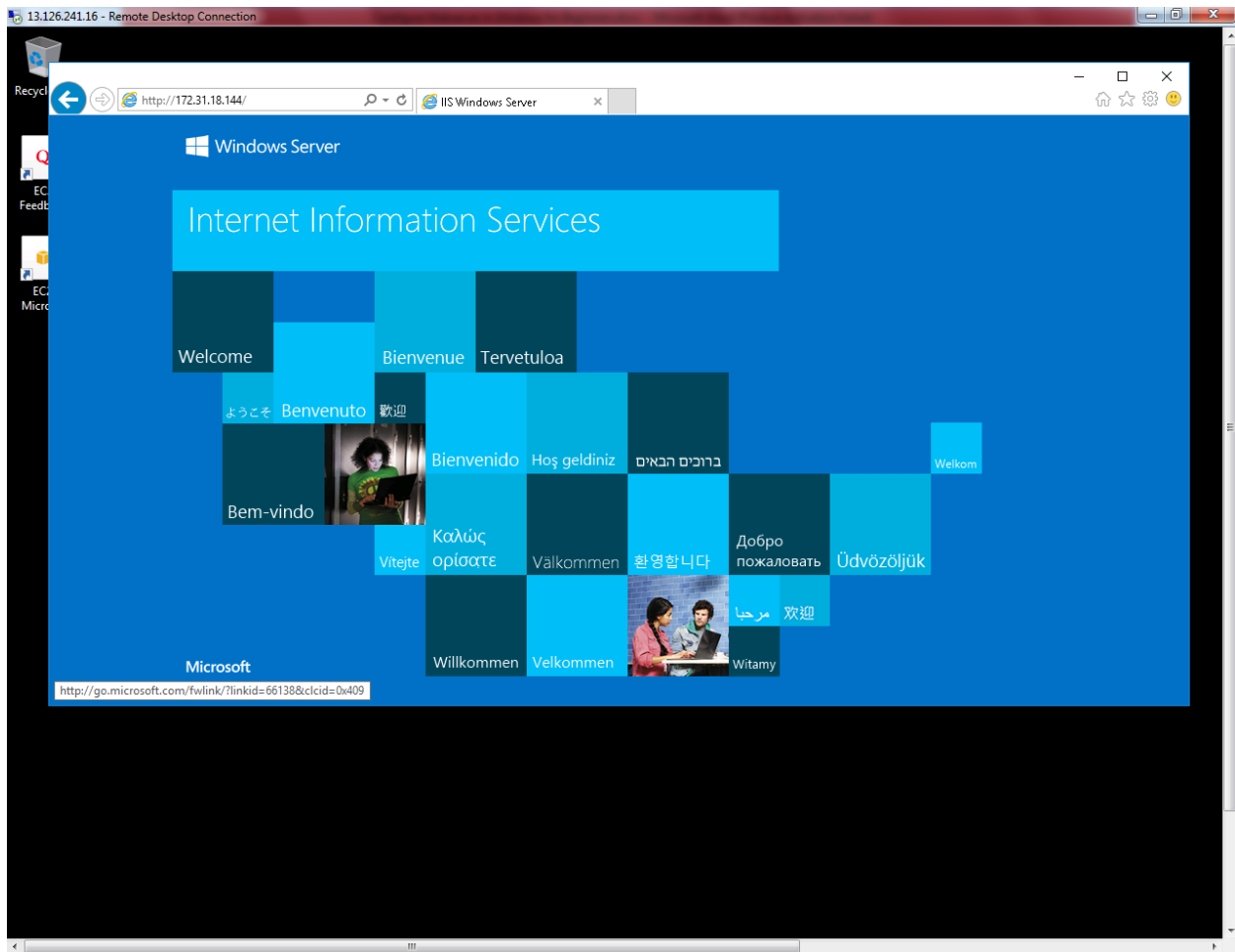


Click "Install".



IIS application installed successfully, click close.

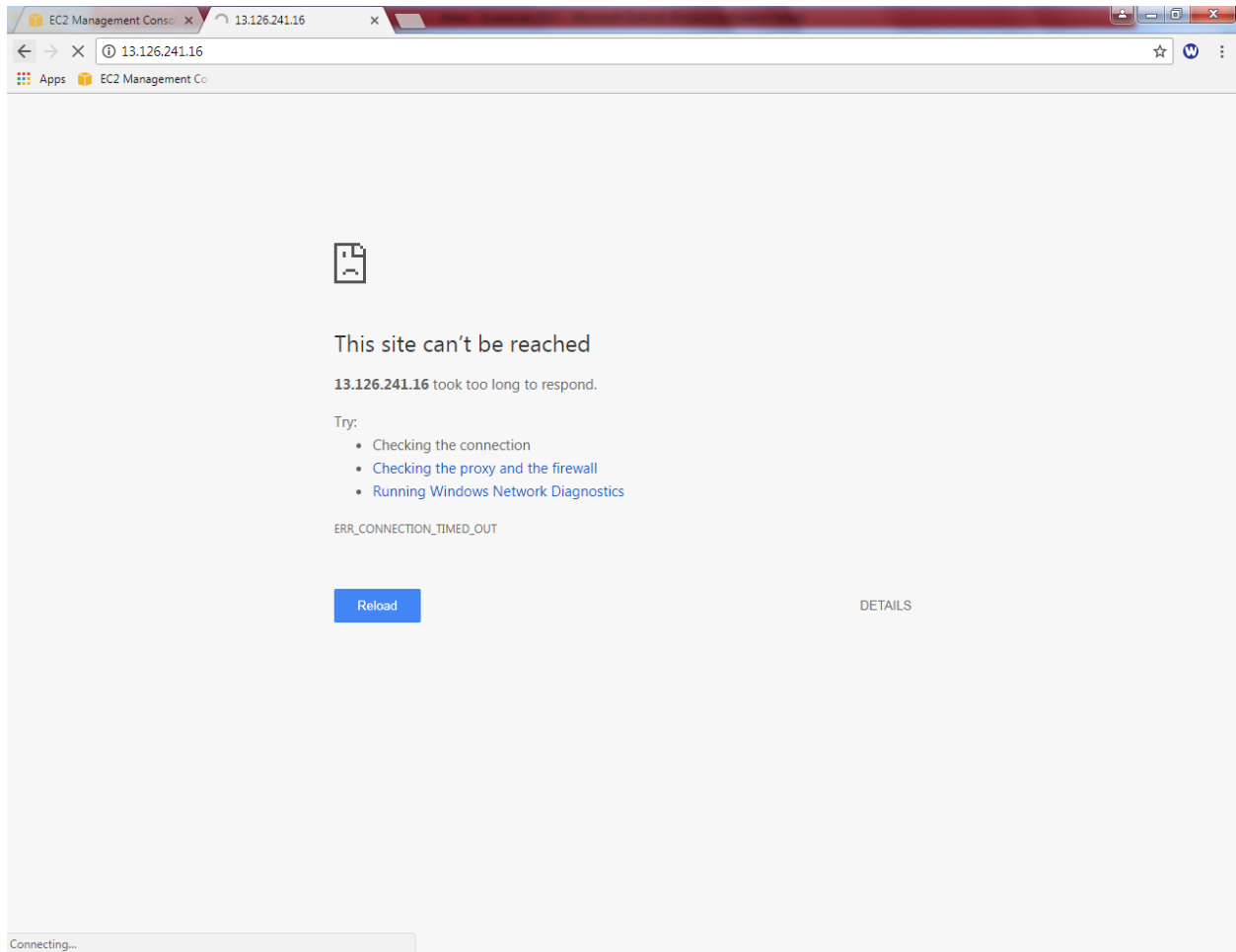
In Windows 2016 server, type the private IP address of the server <http://172.31.18.144> in internet explorer to view the web server.



We can able to view the web page by using LAN ip / private IP address of the web server.

Then you can try to connect the public address of the Windows 2016 server in your local machine.

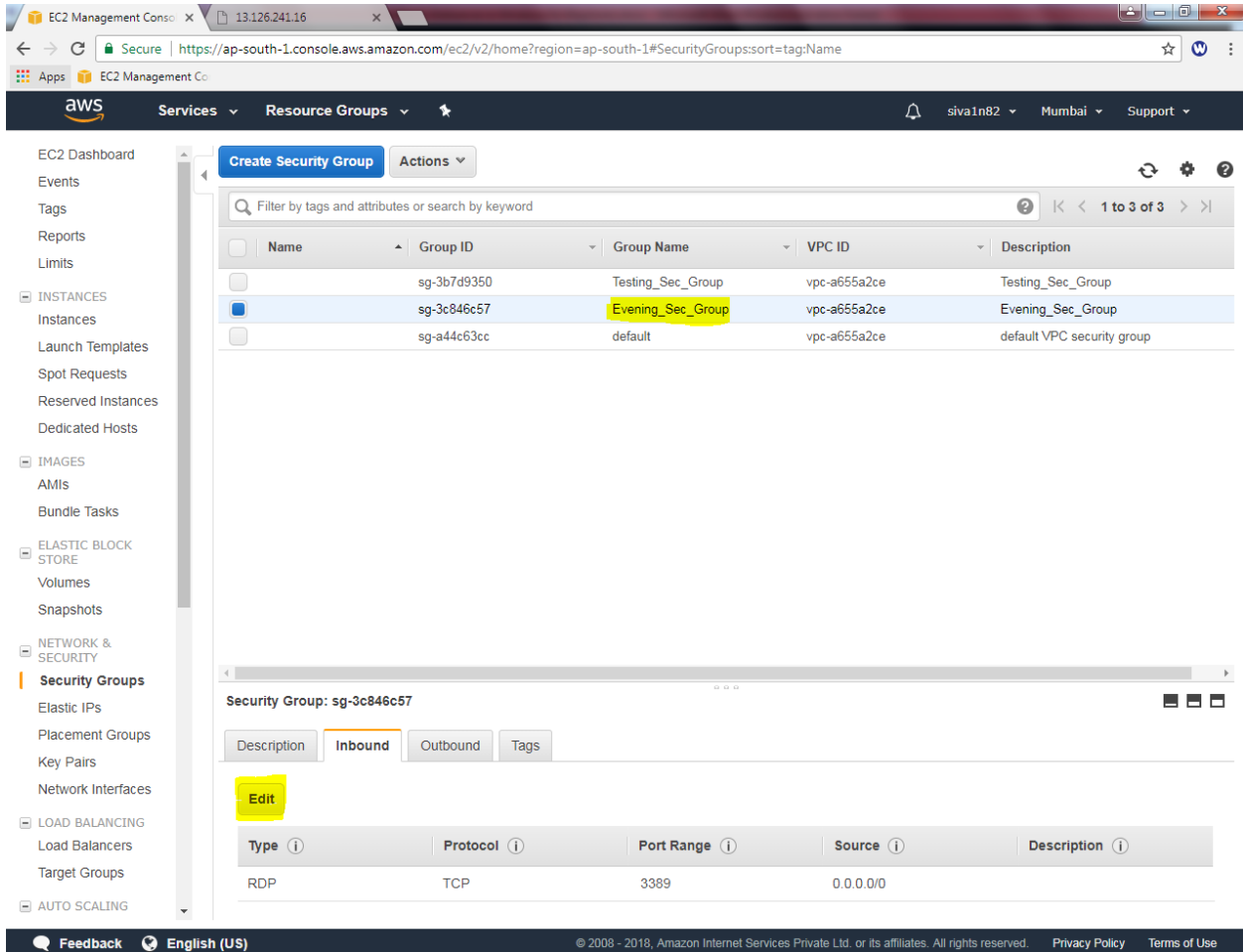
`http://13.126.241.16`.



You would not be able to connect, what could be the reason?

In security group, we have permitted only RDP Port (3389). Hence we are unable to connect port 80 from outside of the network. Now we need to allow port 80 (HTTP) in security group "Evening_Sec_Group".

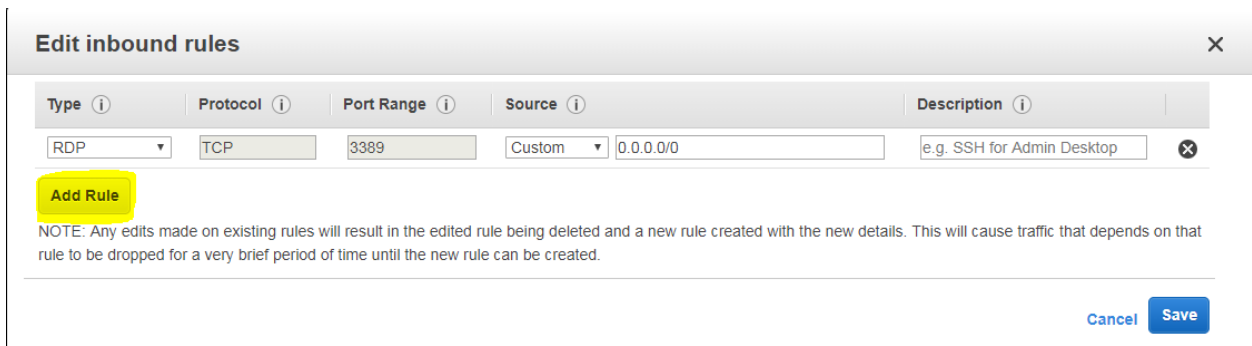
Goto EC2, click Security Groups and select “Evening_Sec_Group”. Click on Inbound tab, then click “Edit” button.



The screenshot shows the AWS Management Console interface. On the left, the navigation pane lists various services, with 'Security Groups' under 'NETWORK & SECURITY' highlighted. The main content area displays a list of security groups. The 'Evening_Sec_Group' (ID: sg-3c846c57) is selected. Below the list, the 'Inbound' tab is active, and the 'Edit' button is highlighted. The table below shows the existing inbound rule:

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

Click “Add Rule”



The screenshot shows the 'Edit inbound rules' dialog box. The 'Add Rule' button is highlighted. The dialog contains a table for adding new rules:

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

Below the table, there is a text input field for the description, currently containing 'e.g. SSH for Admin Desktop'. At the bottom, there are 'Cancel' and 'Save' buttons.

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

Select Type as “HTTP “ and Source as 0.0.0.0/0 (IPv4) and ::/0 (IPv6).

Edit inbound rules ×

Type <small>i</small>	Protocol <small>i</small>	Port Range <small>i</small>	Source <small>i</small>	Description <small>i</small>	
RDP ▾	TCP	3389	Custom ▾ 0.0.0.0/0	e.g. SSH for Admin Desktop	✕
HTTP ▾	TCP	80	Custom ▾ 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop	✕

Add Rule

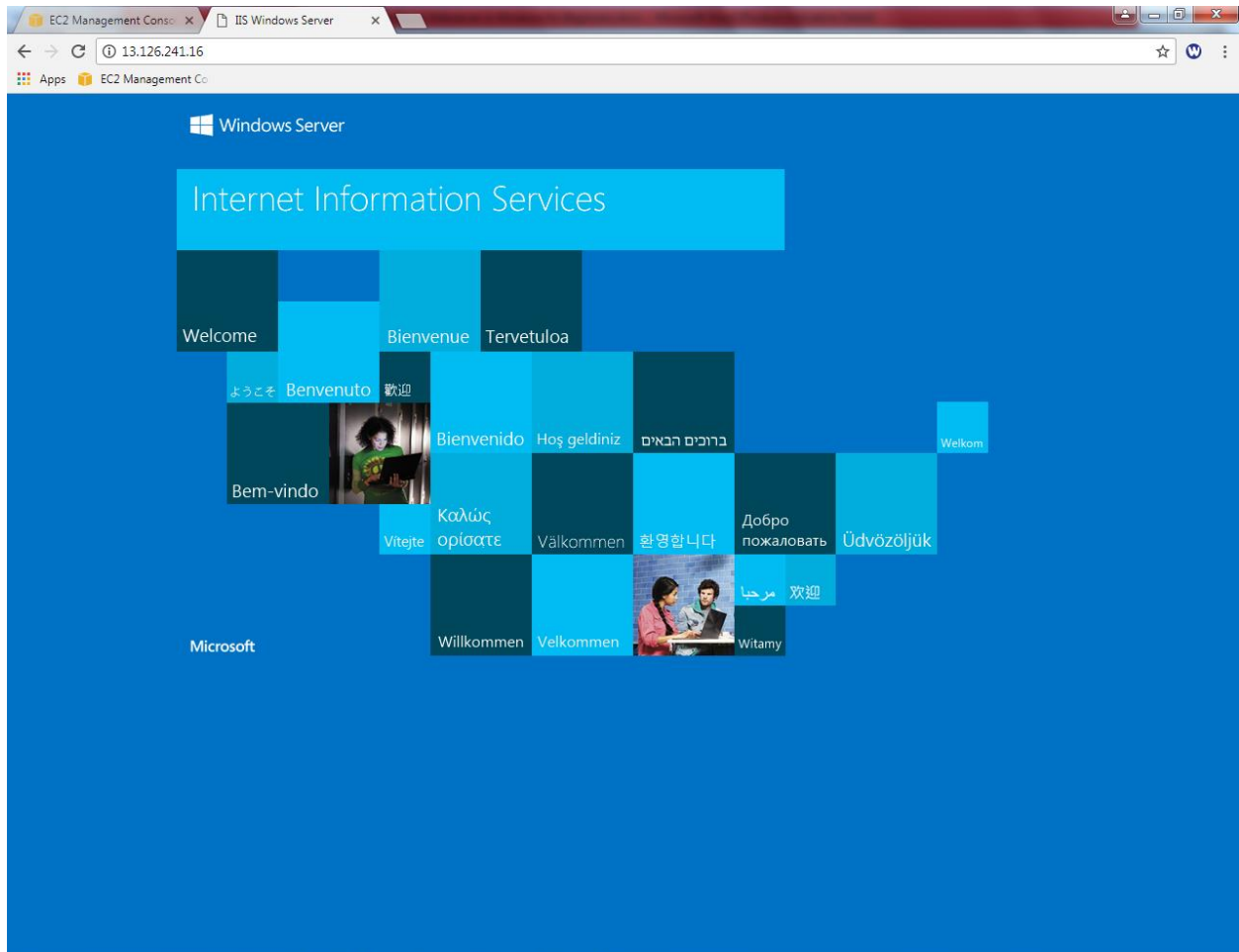
NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

Cancel Save

Click “save”.

ry to connect IIS server from local machine, by using public IP address of Windows 2016 server instance.

<http://13.126.241.16>



We have got the web server successfully.