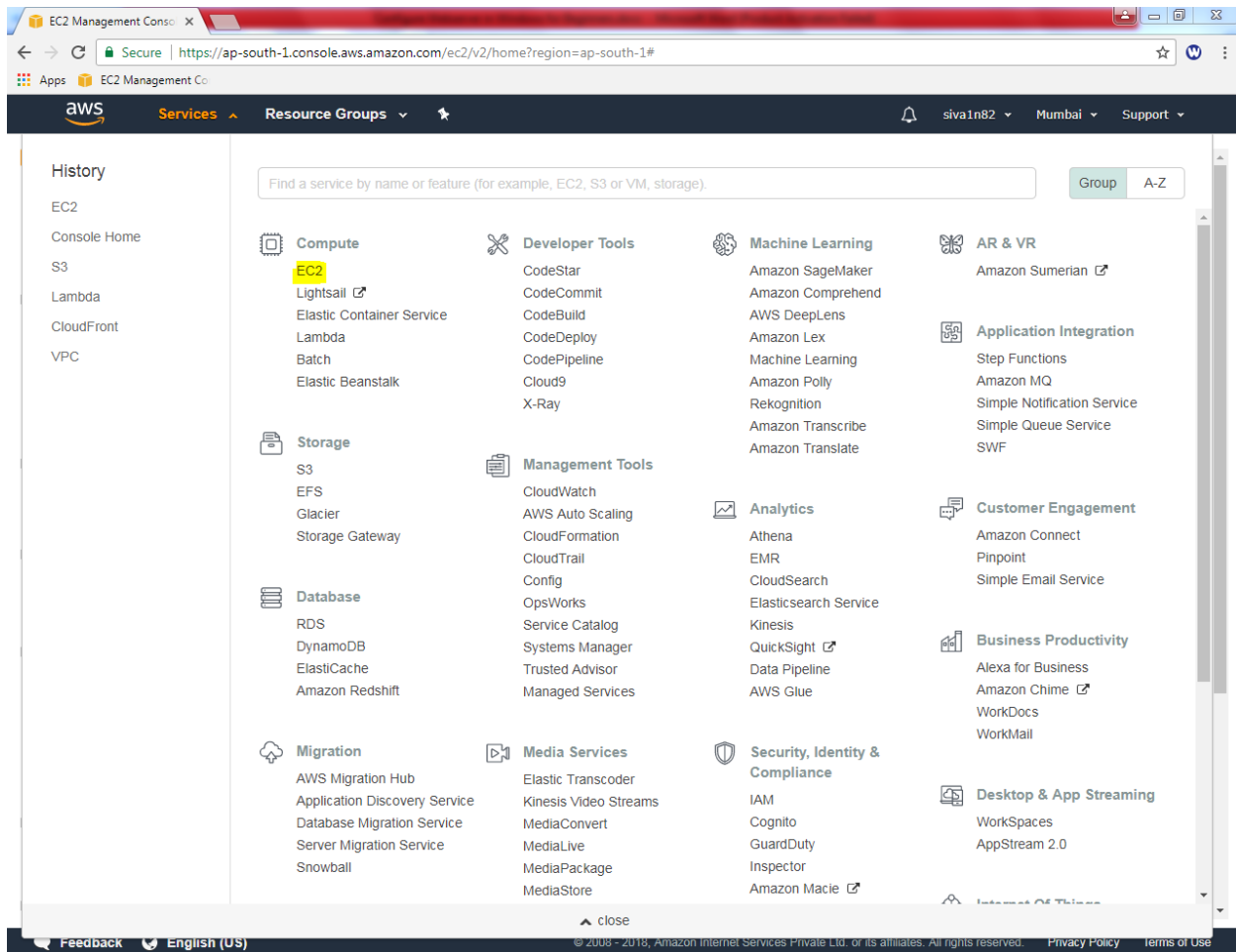


## Lab2

### 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 interface for the EC2 service. The left sidebar contains a navigation menu with categories like 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 in the Asia Pacific (Mumbai) region, including 0 Running Instances, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, 2 Security Groups, 0 Dedicated Hosts, 0 Volumes, 9 Key Pairs, and 0 Placement Groups. A prominent yellow button labeled 'Launch Instance' is visible under the 'Create Instance' section. The right sidebar shows 'Account Attributes' and 'Additional Information' links. The bottom of the console features 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 'Launch Instance Wizard'. The browser address bar shows 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 (active), 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review.

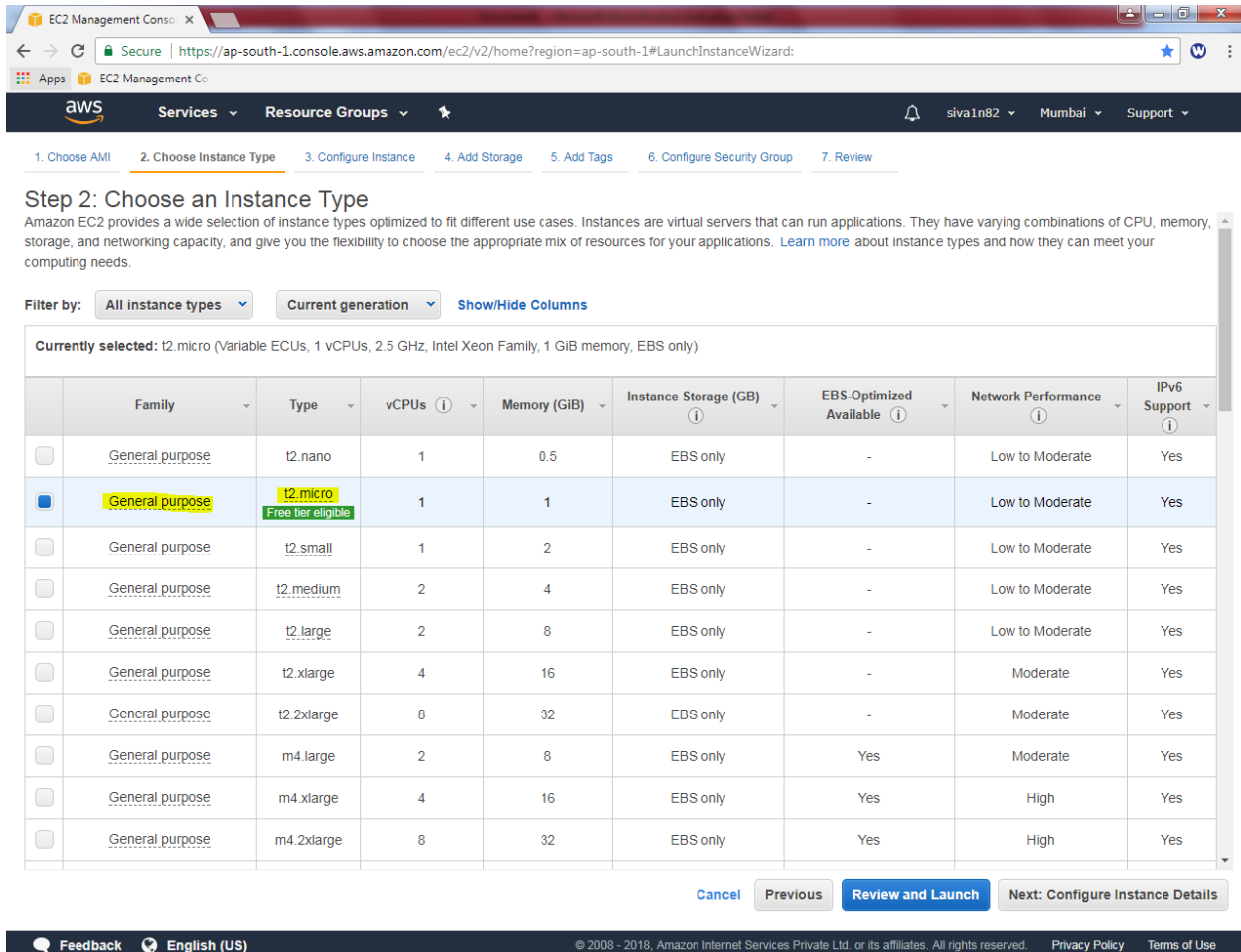
**Step 1: Choose an Amazon Machine Image (AMI)**

A promotional banner for Amazon RDS is displayed at the top, encouraging users to launch a database instance using RDS. Below this, a list of AMIs is shown:

- Microsoft Windows Server 2016 Base - ami-ad8addc2** (highlighted in yellow)
  - Icon: Windows logo
  - Category: Windows
  - Label: Free tier eligible
  - Description: Microsoft Windows 2016 Datacenter edition. [English]
  - Architecture: 64-bit
  - Root device type: ebs
  - Virtualization type: hvm
  - Action: Select
- Deep Learning AMI (Ubuntu) - ami-27e8a148**
  - Icon: Ubuntu logo
  - Category: Deep Learning
  - Label: Free tier eligible
  - Description: Latest versions of deep learning frameworks pre-installed in separate virtual environments: MXNet, TensorFlow, Caffe2, PyTorch, Theano, CNTK, Keras
  - Architecture: 64-bit
  - Root device type: ebs
  - Virtualization type: hvm
  - Action: Select
- Deep Learning AMI (Amazon Linux) - ami-6ce8a103**
  - Icon: Amazon Linux logo
  - Category: Deep Learning
  - Label: Free tier eligible
  - Description: Latest versions of deep learning frameworks pre-installed in separate virtual environments: MXNet, TensorFlow, Caffe2, PyTorch, Theano, CNTK, Keras
  - Architecture: 64-bit
  - Root device type: ebs
  - Virtualization type: hvm
  - Action: Select
- Deep Learning Base AMI (Ubuntu) - ami-19f6bf76**
  - Icon: Ubuntu logo
  - Category: Deep Learning
  - Label: Free tier eligible
  - Description: 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
  - Architecture: 64-bit
  - Root device type: ebs
  - Virtualization type: hvm
  - Action: Select

The footer of the console includes a Feedback link, the language set to 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<br>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”.

The screenshot shows the AWS Management Console interface for the 'Launch Instance Wizard'. The browser address bar indicates the URL: `https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:`. The console header shows the user is logged in as 'siva1n82' in the 'Mumbai' region. The navigation bar includes 'Services' and 'Resource Groups'. The wizard progress bar shows seven steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance (active), 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 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           | 1   | <a href="#">Launch into Auto Scaling Group</a> |
| Purchasing option             | <input type="checkbox"/> Request Spot instances   |  |
| Network                       | vpc-a655a2ce (default)  | <a href="#">Create new VPC</a>                 |
| Subnet                        | No preference (default subnet in any Availability Zone)   | <a href="#">Create new subnet</a>              |
| Auto-assign Public IP         | <input type="checkbox"/> Use subnet setting (Enable)  |  |
| IAM role                      | None  | <a href="#">Create new IAM role</a>            |
| Shutdown behavior             | Stop  |  |
| Enable termination protection | <input type="checkbox"/> Protect against accidental termination   |  |
| Monitoring                    | <input type="checkbox"/> Enable CloudWatch detailed monitoring<br><a href="#">Additional charges apply.</a>     |  |
| Tenancy                       | Shared - Run a shared hardware instance<br><a href="#">Additional charges will apply for dedicated tenancy.</a> |  |
| T2 Unlimited                  | <input type="checkbox"/> Enable<br><a href="#">Additional charges may apply</a>                                 |  |

▶ Advanced Details

At the bottom right, there are four buttons: 'Cancel', 'Previous', 'Review and Launch' (highlighted in blue), and 'Next: Add Storage'.

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

Leave the default settings and click “Next”.

The screenshot shows the AWS Management Console interface for the 'Launch Instance Wizard' in the 'ap-south-1' region. The '4. Add Storage' step is active, showing the configuration for the root volume. The volume is named 'Root', located at '/dev/sda1', and is a 'General Purpose SSD (GP2)' type with a size of 30 GiB. It has a throughput of 100 / 3000 IOPS and is not encrypted. The 'Delete on Termination' checkbox is checked. A button 'Add New Volume' is visible below the table. A note states: '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.'

| 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).

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

1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 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 ⓘ                         | Volumes ⓘ                           |
|------------------------------|--------------------------------|-------------------------------------|-------------------------------------|
| Name                         | Windows 2016 instance          | <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](#)

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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.

The screenshot shows the AWS Management Console interface for configuring a security group. The browser address bar shows 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 (siva1n82, Mumbai, Support).

The wizard progress bar at the top indicates the current step is "6. 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. [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 |

**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.

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Click "Review and launch".

Leave default settings and Click "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.

**⚠ 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

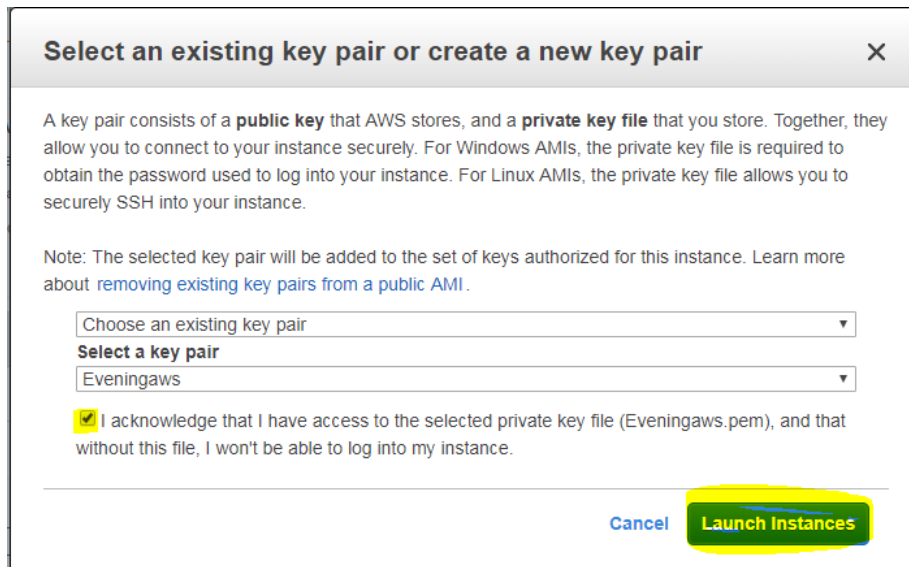
| Type ⓘ | Protocol ⓘ | Port Range ⓘ | Source ⓘ  | Description ⓘ |
|--------|------------|--------------|-----------|---------------|
| RDP    | TCP        | 3389         | 0.0.0.0/0 |               |

► **Instance Details** [Edit instance details](#)

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

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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 for the EC2 service. 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 features 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, prompts the user to 'Get notified of estimated charges' by creating billing alerts. Below these boxes, a section titled 'How to connect to your instances' provides instructions on the instance lifecycle and 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 AWS Free Usage Tier. Further down, a section titled 'While your instances are launching you can also' lists tasks like creating status check alarms, attaching EBS volumes, and managing security groups. A blue 'View Instances' button is located at the bottom right of the main content area. The footer contains a feedback link, language selection (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](#)

i **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](#)

Feedback English (US)

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

The screenshot displays the AWS Management Console interface for an EC2 instance. The left sidebar shows the navigation menu with categories like INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, LOAD BALANCING, and AUTO SCALING. The main content area shows a list of instances with columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, and Public DNS (IPv4). The instance 'Windows 2016' is highlighted, showing its details in the right pane. The details pane includes tabs for Description, Status Checks, Monitoring, and Tags. The Description tab is active, showing the instance's configuration and network details.

| Name         | Instance ID         | Instance Type | Availability Zone | Instance State | Status Checks     | Alarm Status | Public DNS (IPv4) |
|--------------|---------------------|---------------|-------------------|----------------|-------------------|--------------|-------------------|
| Windows 2016 | i-025e414ed11c2f3ee | t2.micro      | ap-south-1a       | running        | 2/2 checks passed | 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 |  |
|---|---------------------|--|--|
| 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                                      |

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

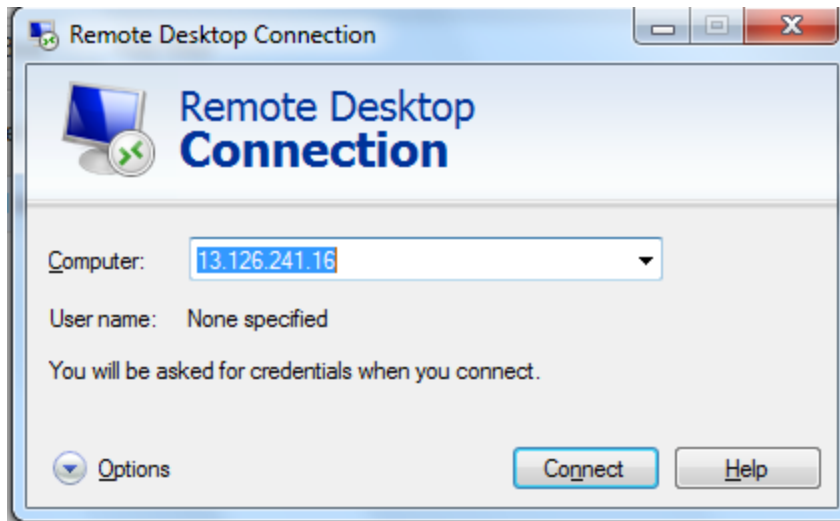
The screenshot displays the AWS Management Console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information 'siva1n82' in 'Mumbai'. The left sidebar lists various AWS services, with 'INSTANCES' expanded and 'Instances' selected. The main content area shows a list of EC2 instances. A table lists one instance: 'Windows 20...' with Instance ID 'i-025e414ed11c2f3ee', Instance Type 't2.micro', Availability Zone 'ap-south-1a', Instance State 'running', Status Checks '2/2 checks ...', Alarm Status 'None', and Public DNS (IPv4) 'ec2-13-126-241-16'. Below the table, the details for the selected instance 'i-025e414ed11c2f3ee (Windows 2016 instance)' are shown. The 'Description' tab is active, displaying a table with instance details: Instance ID, Instance state, Instance type, Elastic IPs, Availability zone, Public DNS (IPv4), IPv4 Public IP, IPv6 IPs, Private DNS, and Private IPs. The IPv4 Public IP '13.126.241.16' is highlighted in yellow.

| 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 |

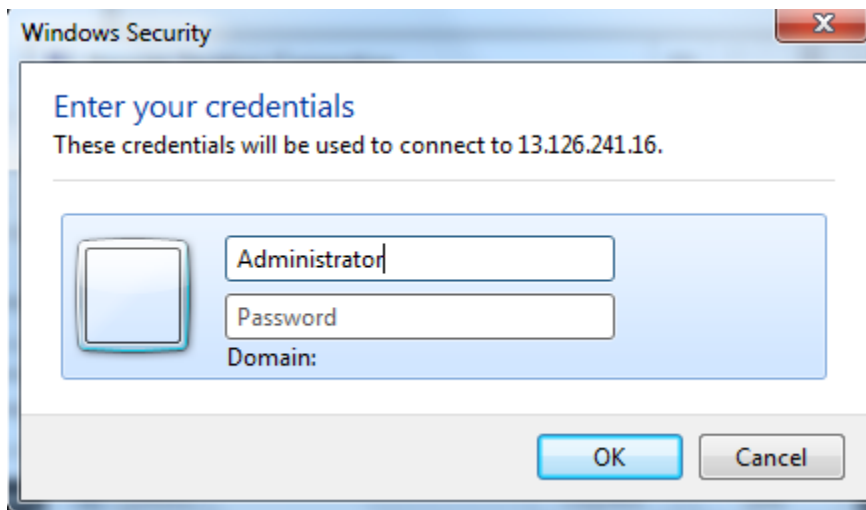
| Instance: i-025e414ed11c2f3ee (Windows 2016 instance) |                     | Public DNS: ec2-13-126-241-16.ap-south-1.compute.amazonaws.com |  |
|---|---------------------|--|--|
| <b>Description</b>                                    |                     |  |  |
| Instance ID   | i-025e414ed11c2f3ee | 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 displays the AWS Management Console interface for the EC2 service. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The left sidebar lists various EC2-related services like EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, LOAD BALANCING, and AUTO SCALING. The main content area shows a list of EC2 instances with columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, and Public DNS (IPv4). A single instance, 'Windows 20...', is listed with ID 'i-025e414ed11c2f3ee', type 't2.micro', and state 'running'. Below the list, a detailed view of the selected instance is shown, including its description, status checks, monitoring, and tags. The instance is a Windows 2016 instance with a public DNS of 'ec2-13-126-241-16.ap-south-1.compute.amazonaws.com' and a public IP of '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 |  |
|---|---------------------|--|--|
| 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:

|                   |  |
|-------------------|--|
| <b>Public DNS</b> | ec2-13-126-241-16.ap-south-1.compute.amazonaws.com |
| <b>User name</b>  | Administrator                                      |
| <b>Password</b>   | <a href="#">Get Password</a>                       |

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.

|                 |                |
|-----------------|----------------|
| <b>Key Name</b> | Eveningaws.pem |
|-----------------|----------------|

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

|                      |  |
|----------------------|--|
| <b>Key Pair Path</b> | <a href="#">Choose File</a> 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**  Eveningaws.pem

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

```
-----BEGIN RSA PRIVATE KEY-----
MIIEEwIBAAKCAQEAgj+h2SSjdtK5CxmM3CniHt/5xMKVBKXNmifwc3v70wZ1PleR9VhcKq6ok
zzQQ9u+QH3QF5RaxXNc2ELM+WQWdc2cHXH081YepMOU+HQUpOHv+ZO0MZI54MmiXXGjsHH
EuZw0
vIZMJPz6Spw8svcxYVhK4SWxYosY3x9W+pXAKTefncS7PVzmE0mancrERfXc4mmF9tCv5HI9suOj
tlBpOaaRY4kBdtZnrodfggQ3khs4HIGmuScStdQL7FiBbXhl8N1embI93Arcm8YjMPA/xQZYHgIJ
-----
```

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

### 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:

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

**Public DNS** ec2-13-126-241-16.ap-south-1.compute.amazonaws.com

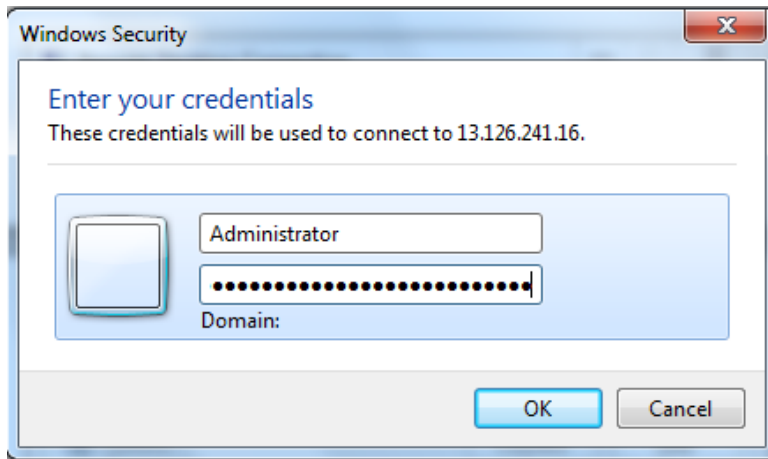
**User name** Administrator

**Password** 2F;6yM4rlmD6xuOHYUL.Jtn4Me2DK\*c-

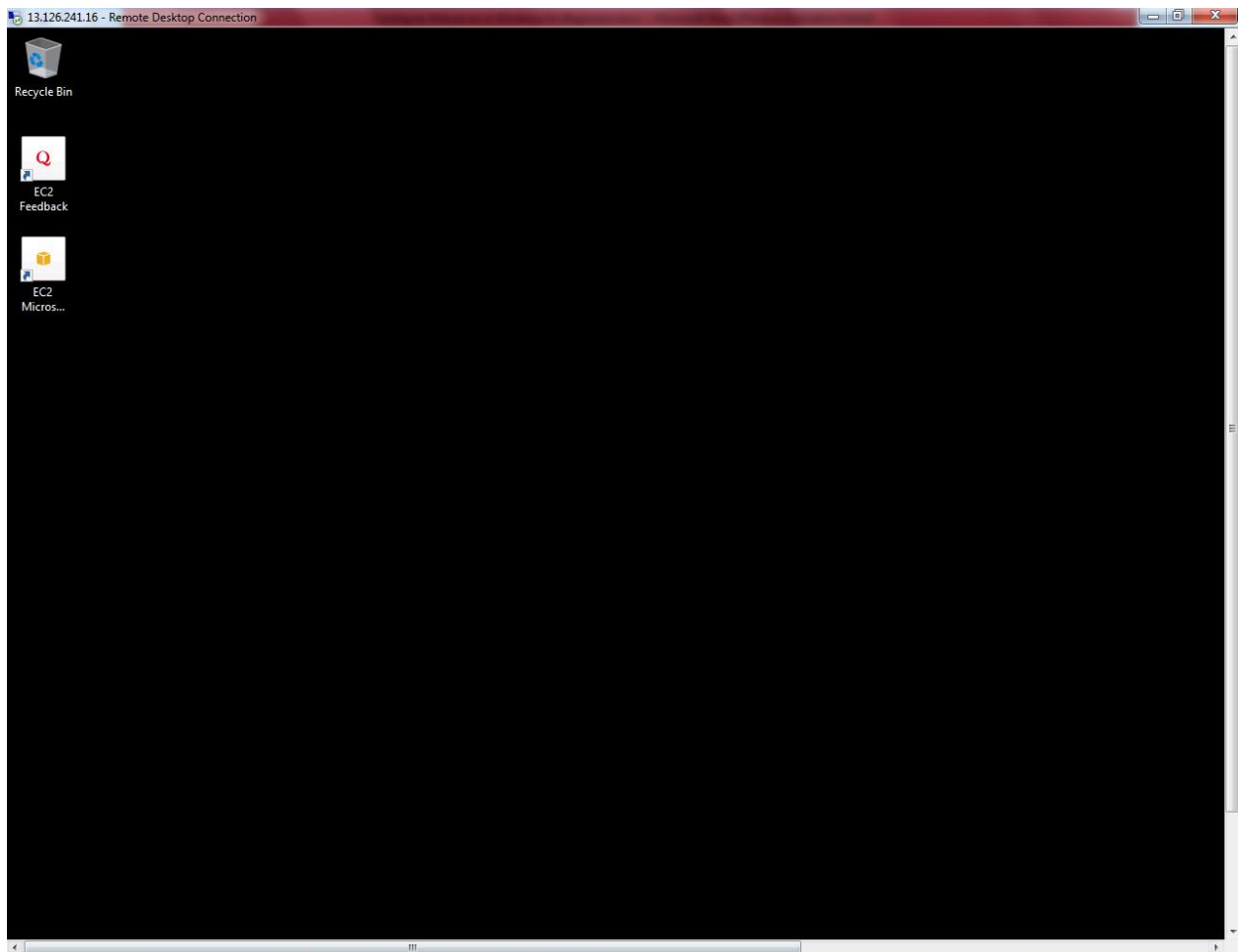
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

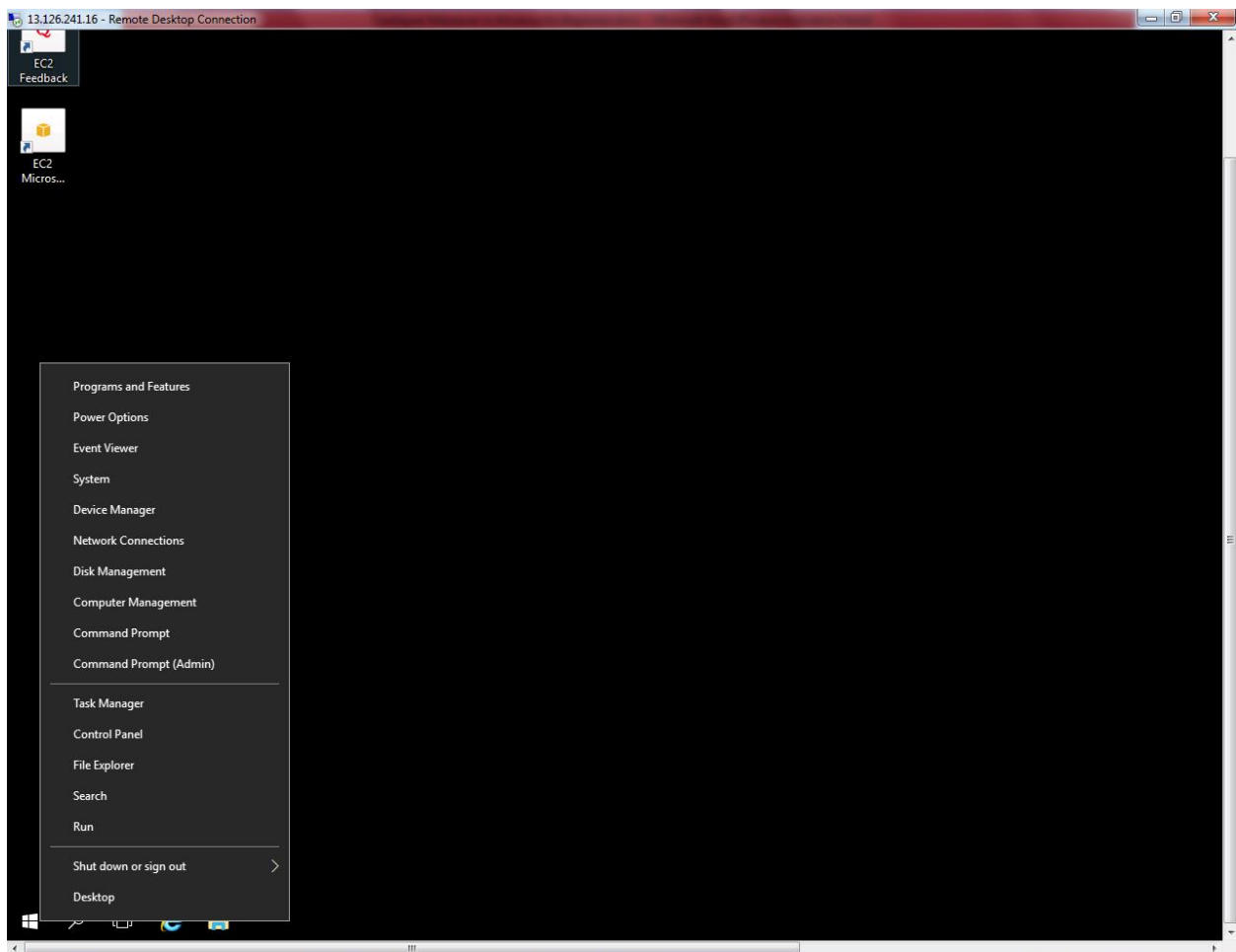
Now trying to connect the server by using above login credentials.



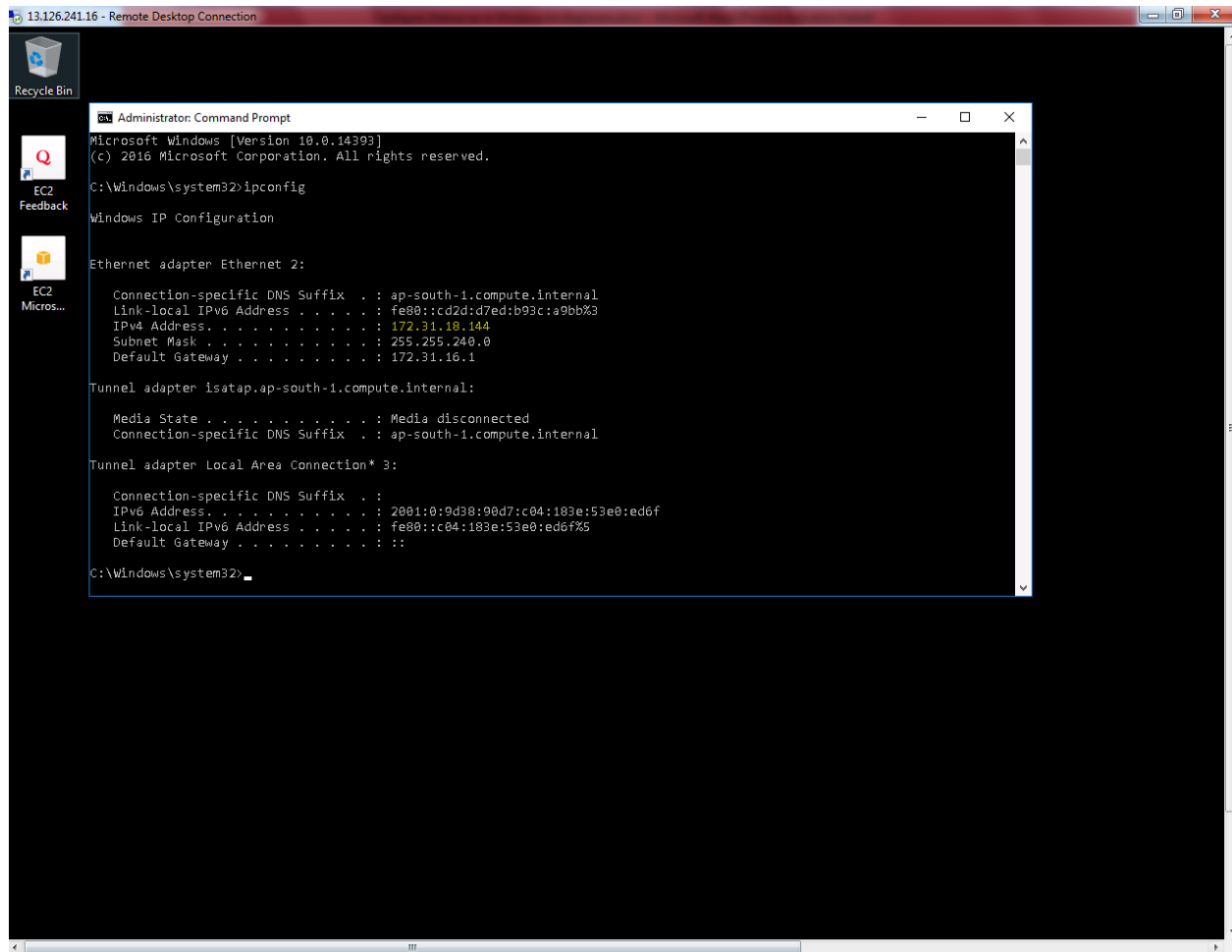
Now we have successfully logged into the server.



In start menu, right click then select command prompt.



In command prompt, type **ipconfig**



```
13.126.241.16 - Remote Desktop Connection

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

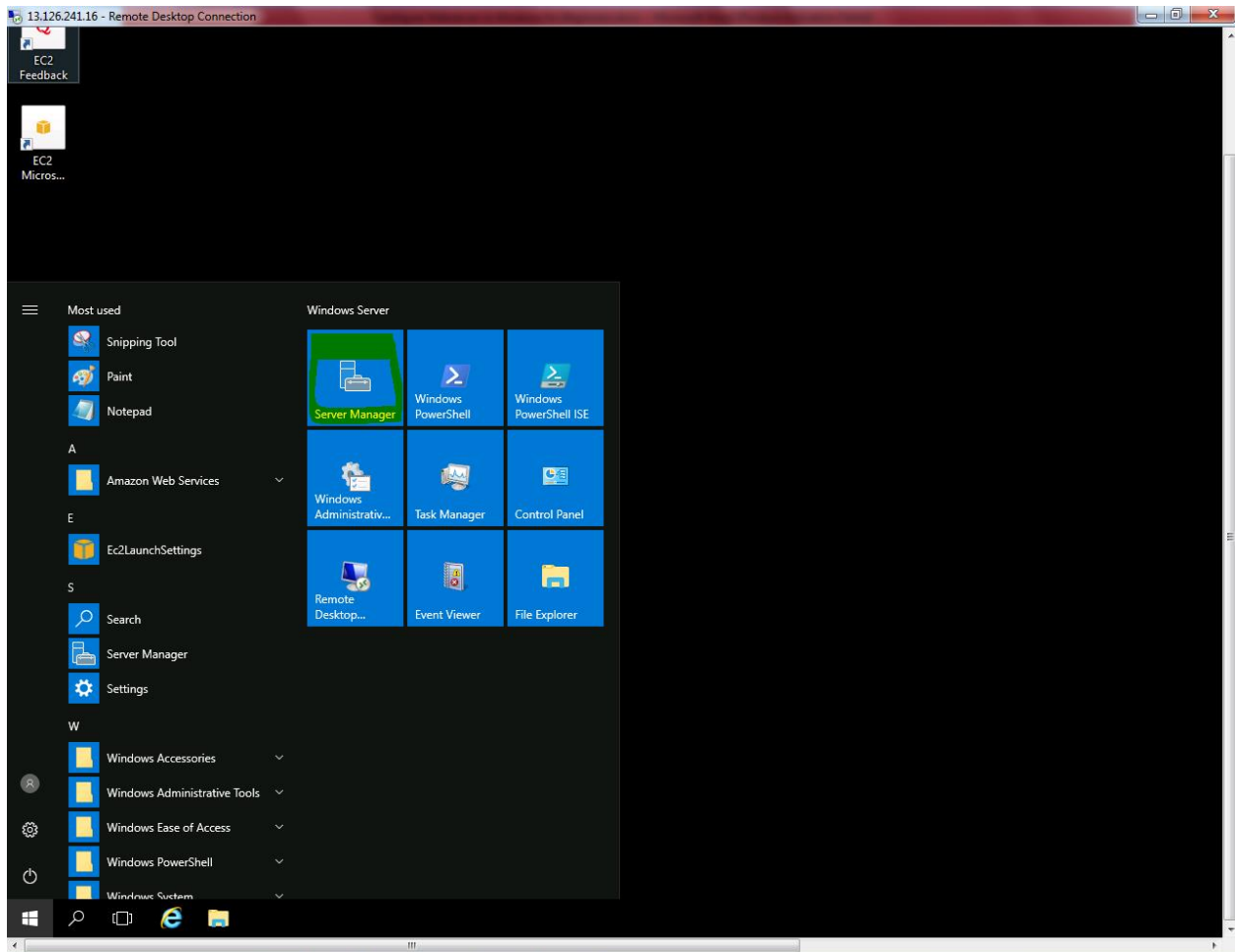
Tunnel adapter Local Area Connection* 3:

    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2001:0:9d38:96d7:c04:183e:53e0:ed6f
    Link-local IPv6 Address . . . . . : fe80::c04:183e:53e0:ed6f%5
    Default Gateway . . . . . :

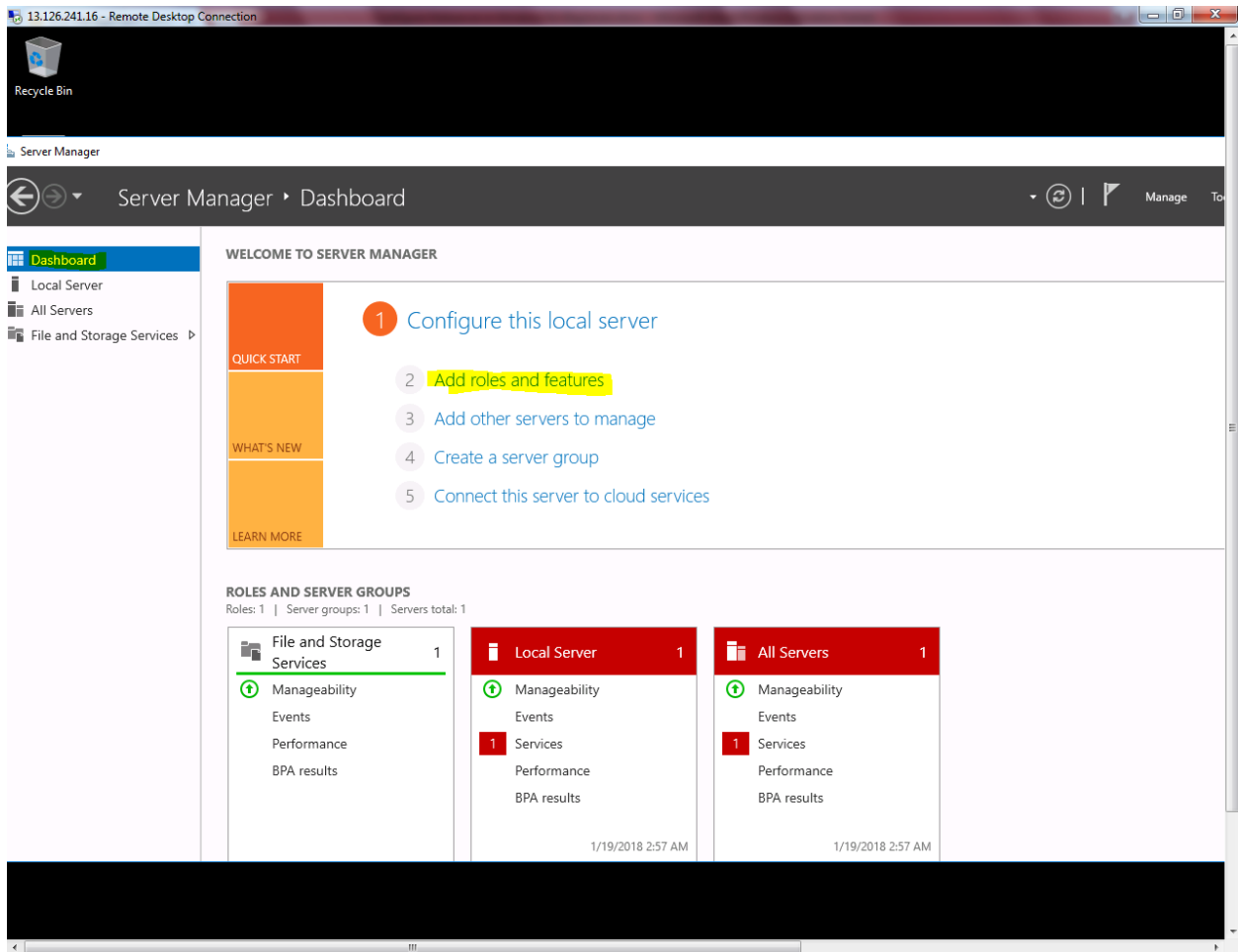
C:\Windows\system32>
```

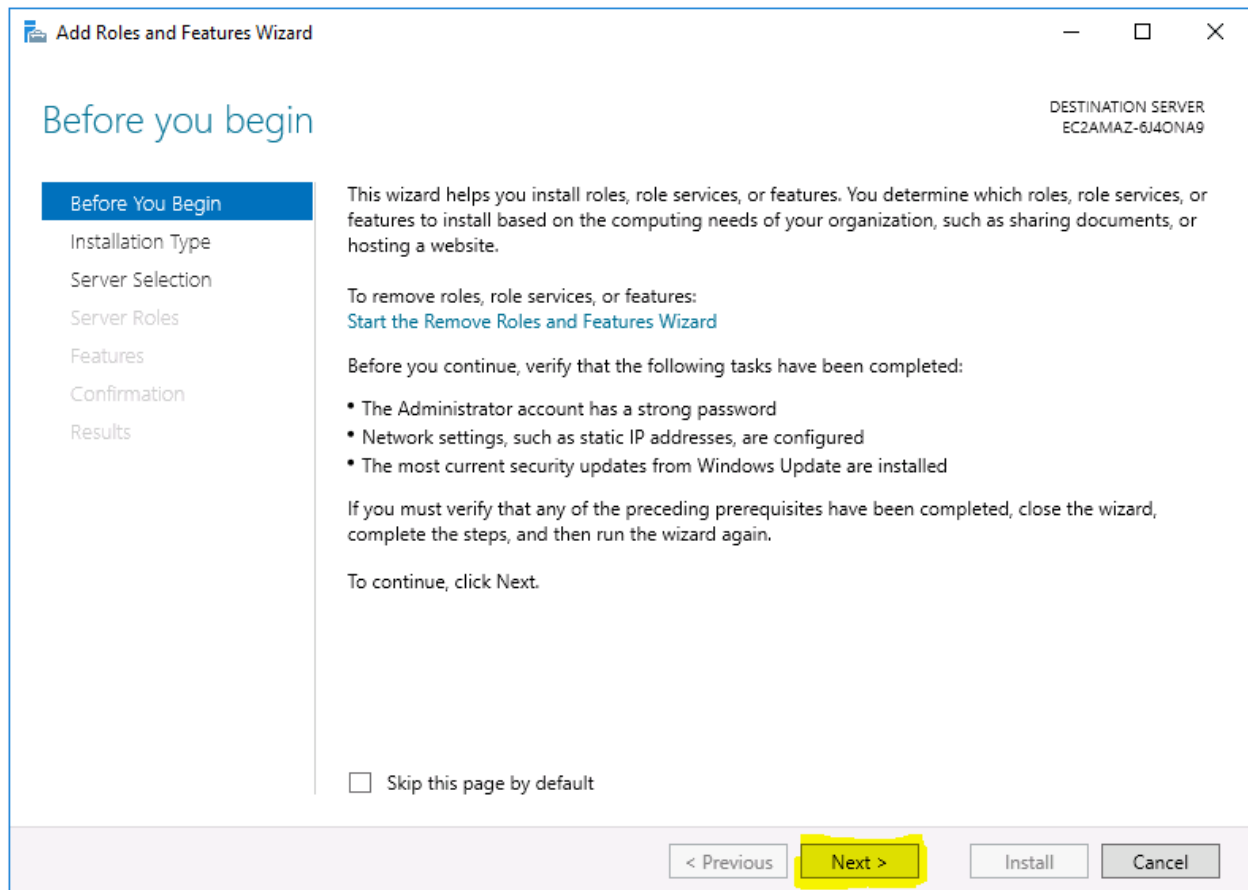
We can able to see the Private IP address of the Windows 2016 server.

Click “Server manager”.



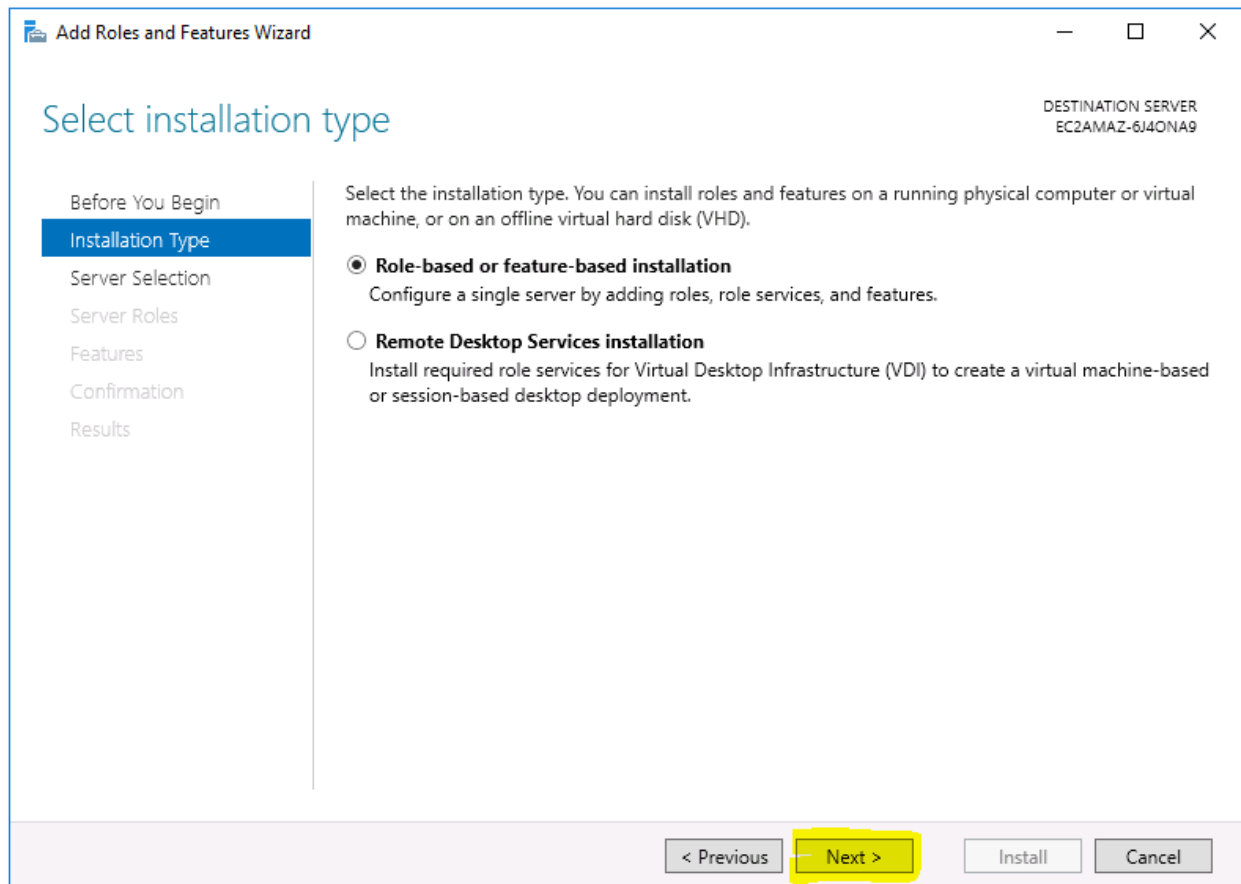
Click “Add Roles and features”



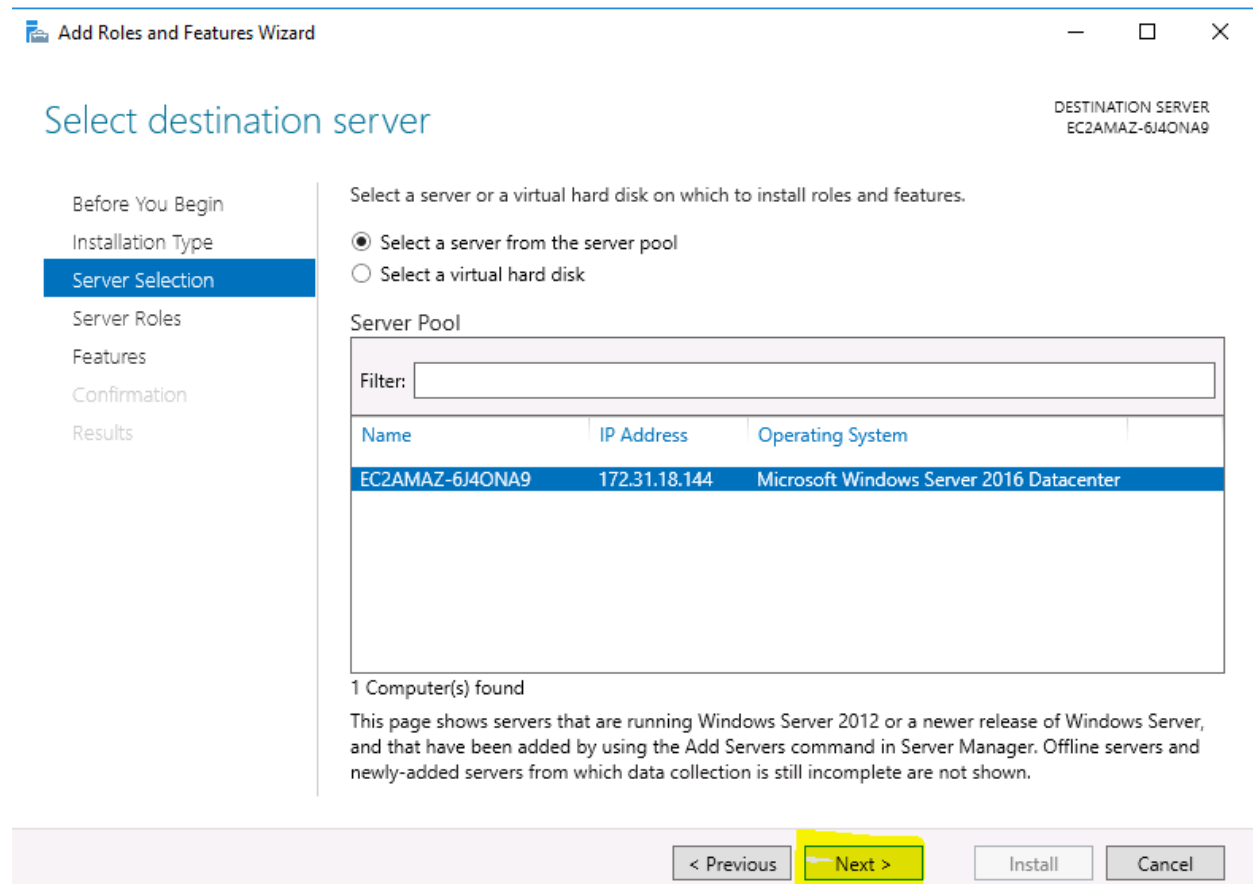


Click "Next".

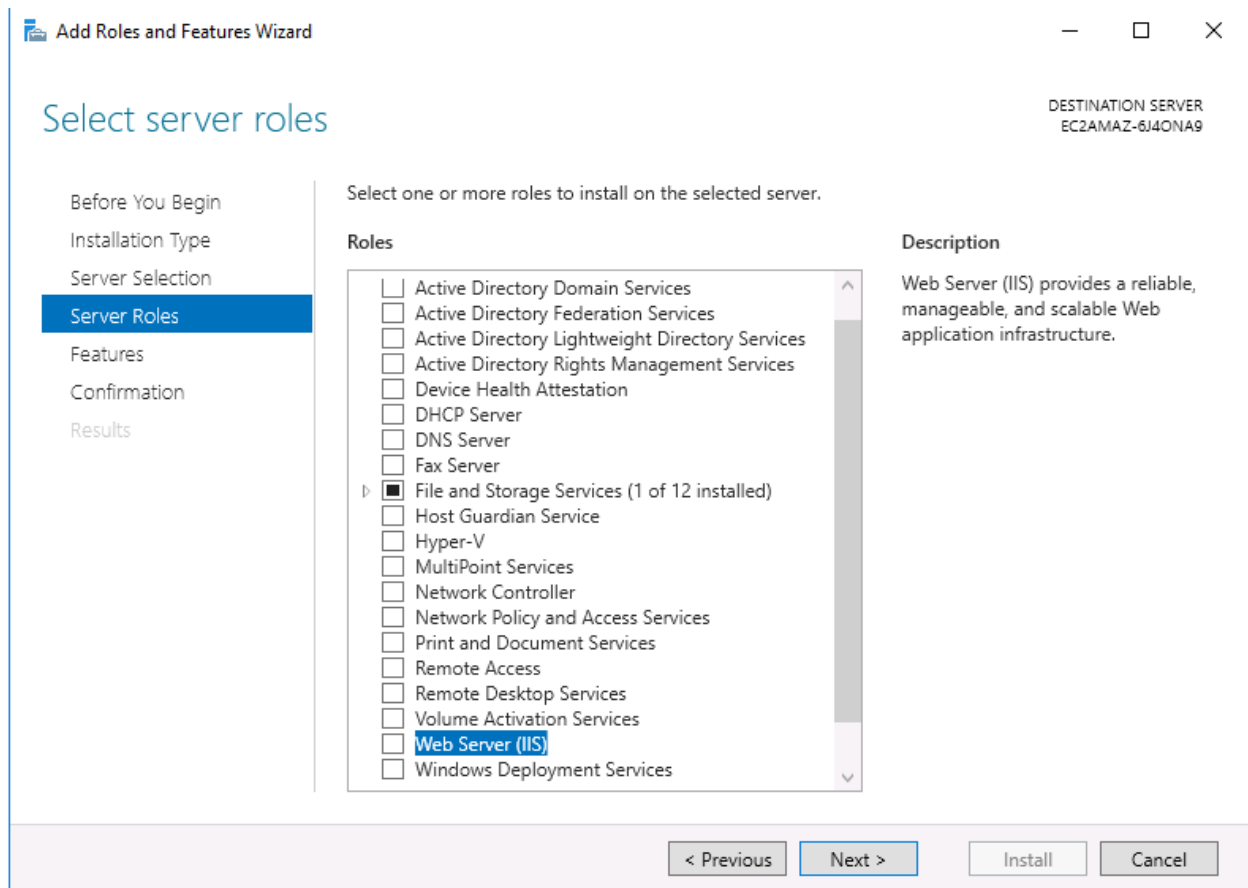




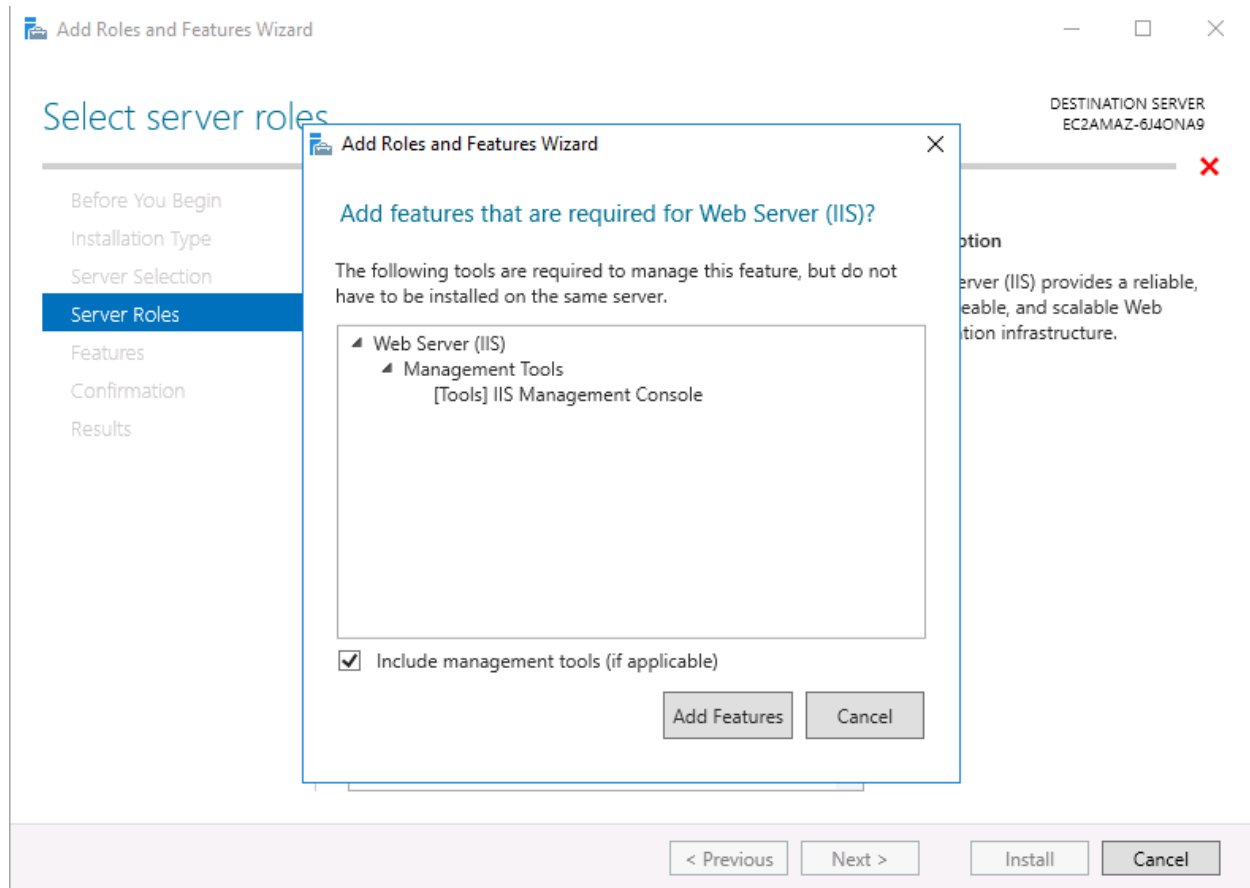
Click "Next".



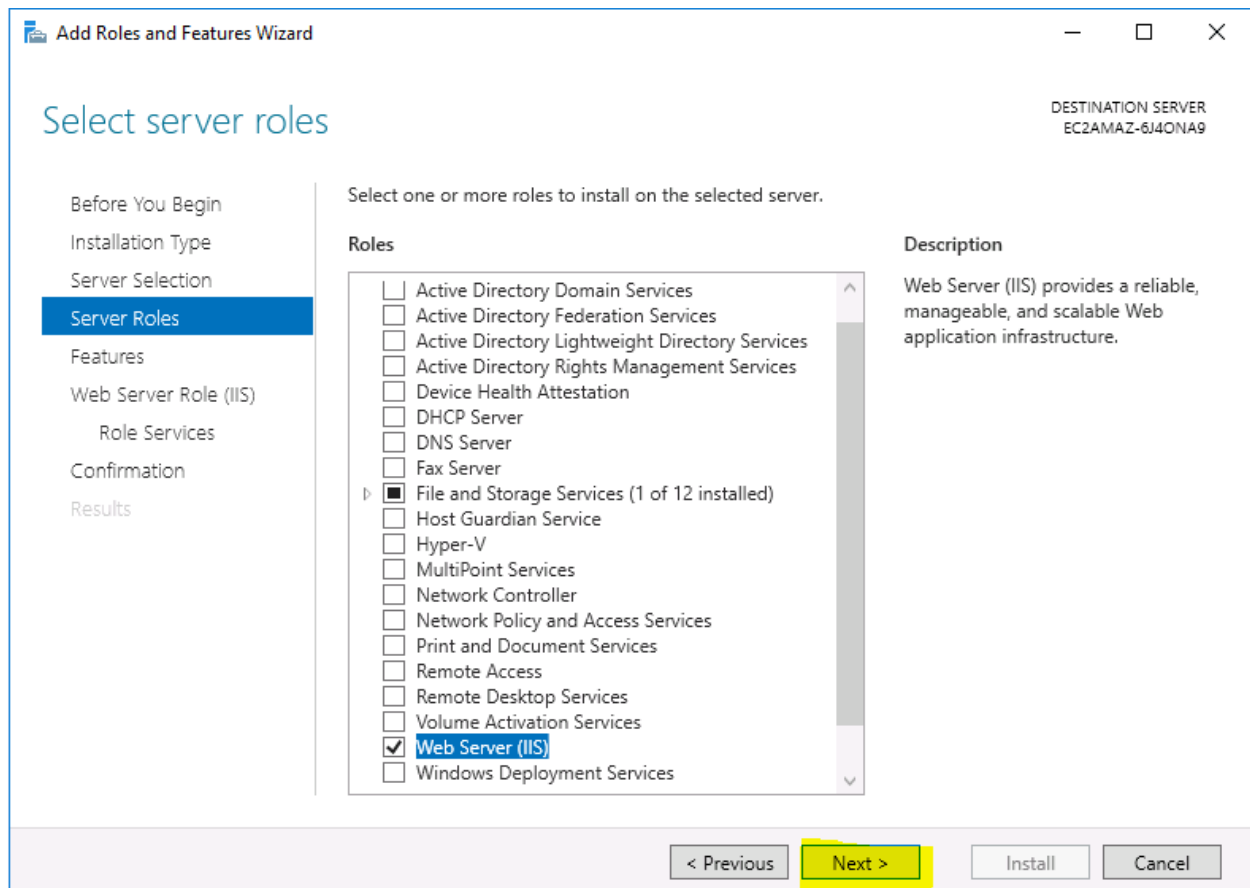
Click "Next".



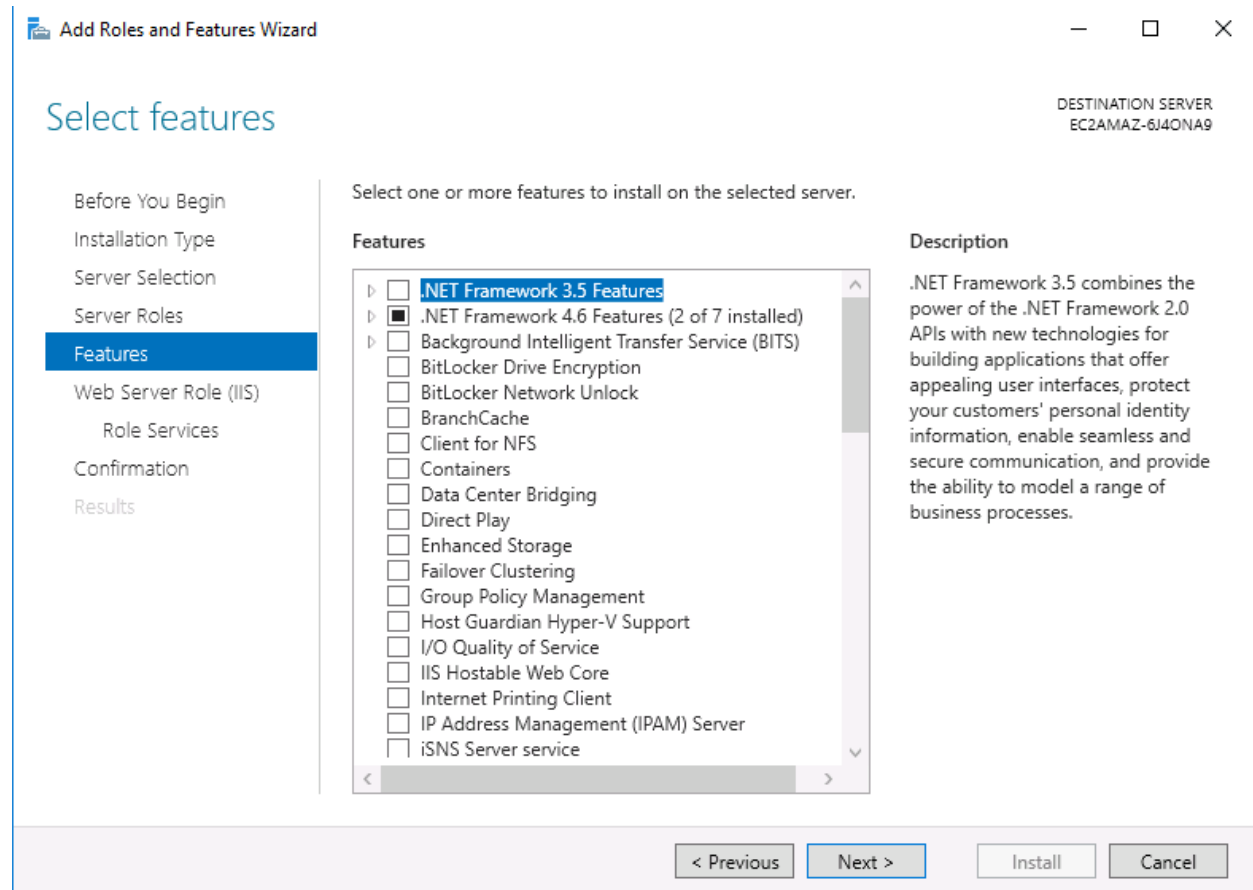
Check "Web server IIS" option button.



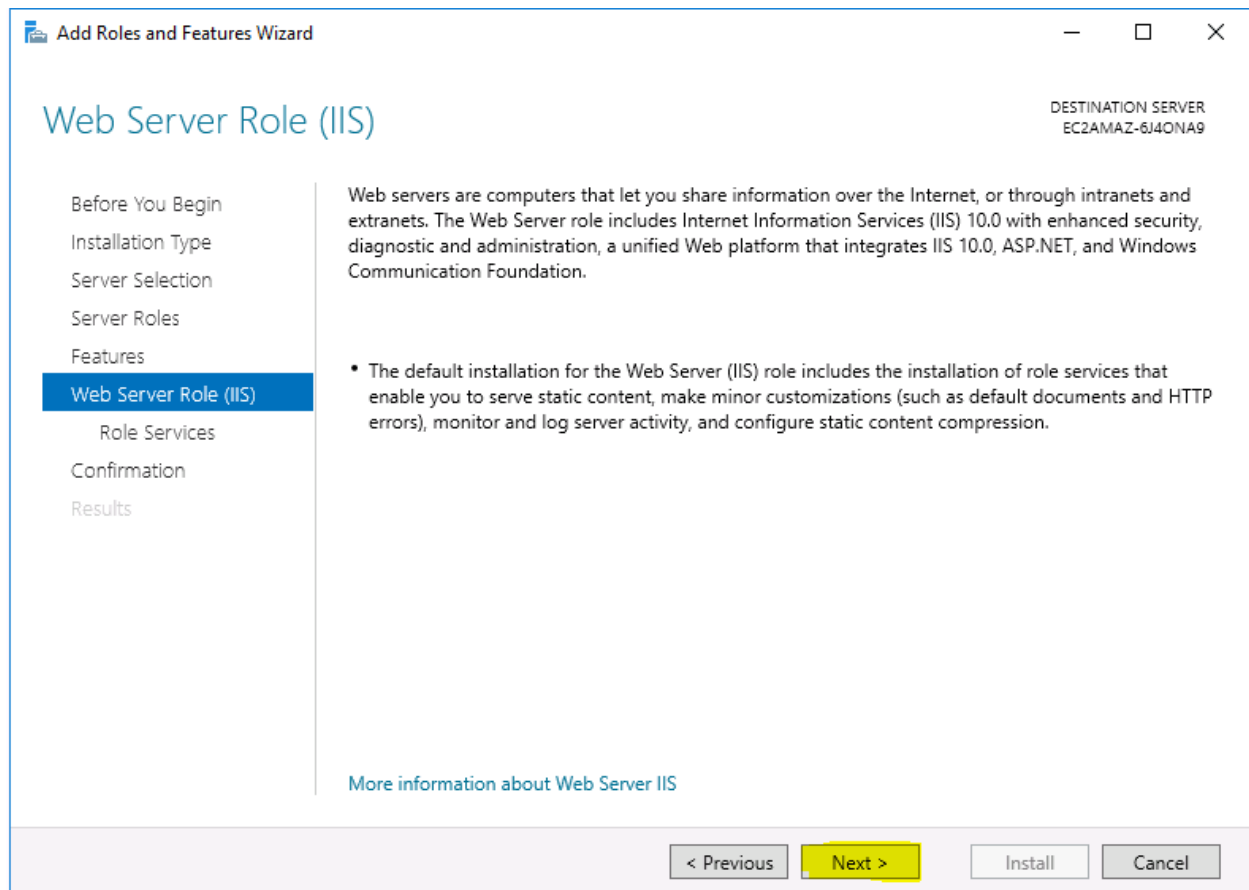
Click "Add features".



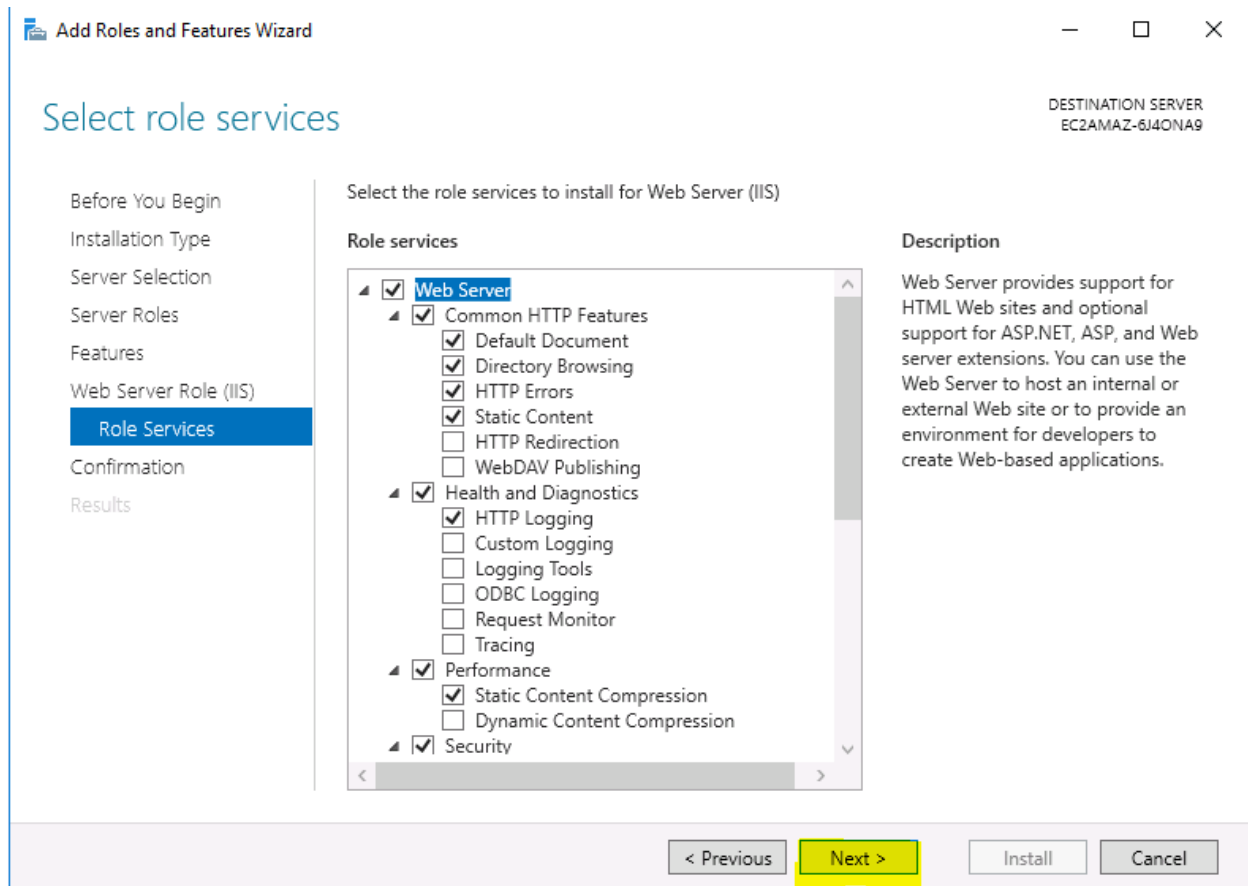
Click "Next".



Click "Next".

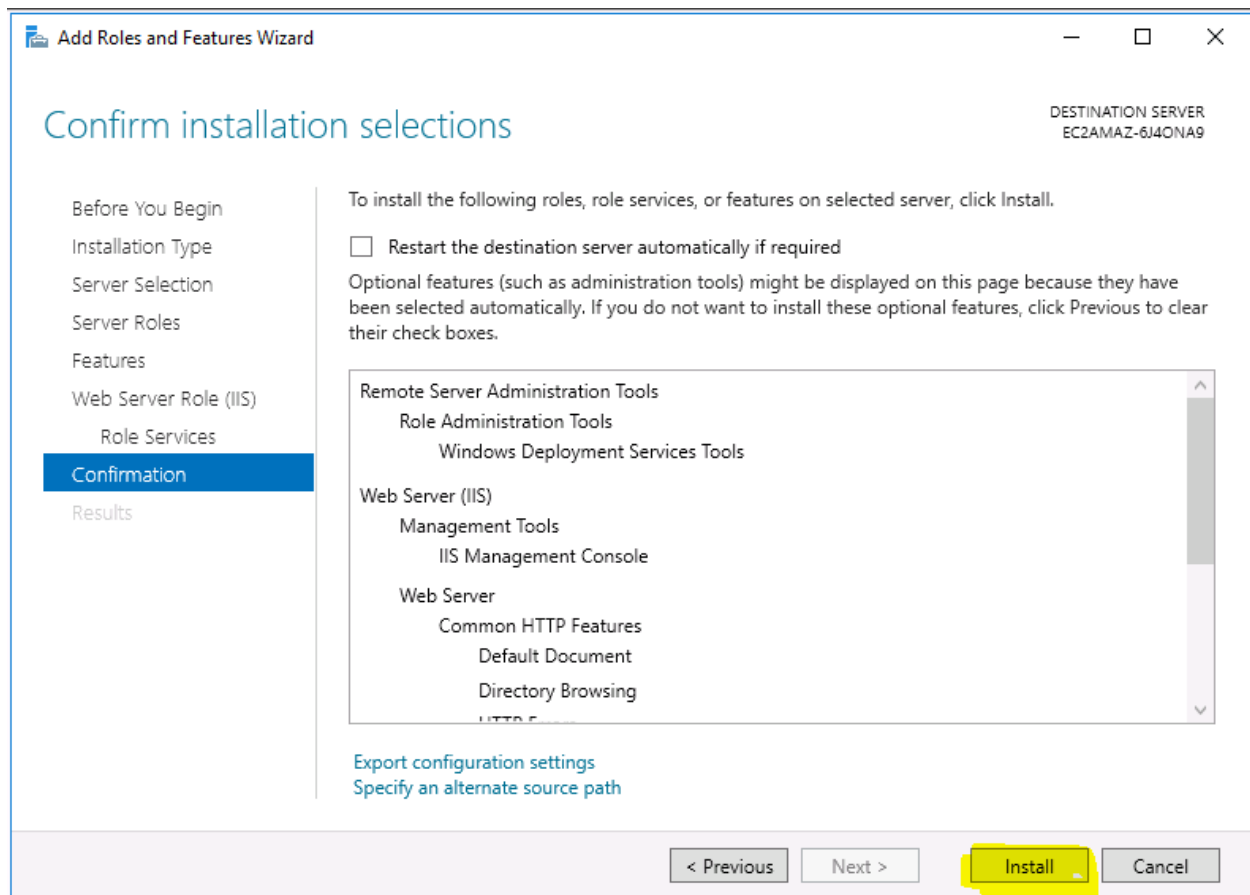


Click "Next".

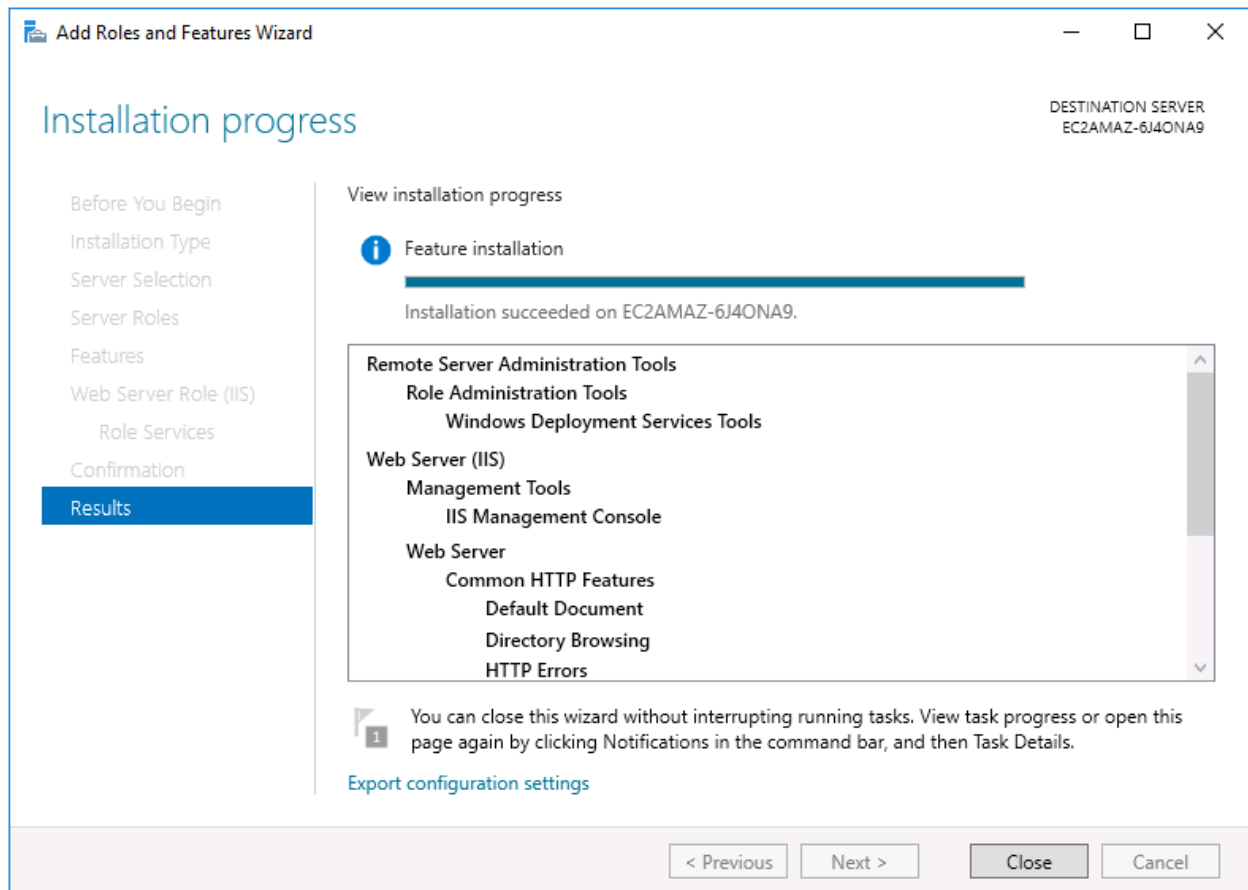


Click "Next".



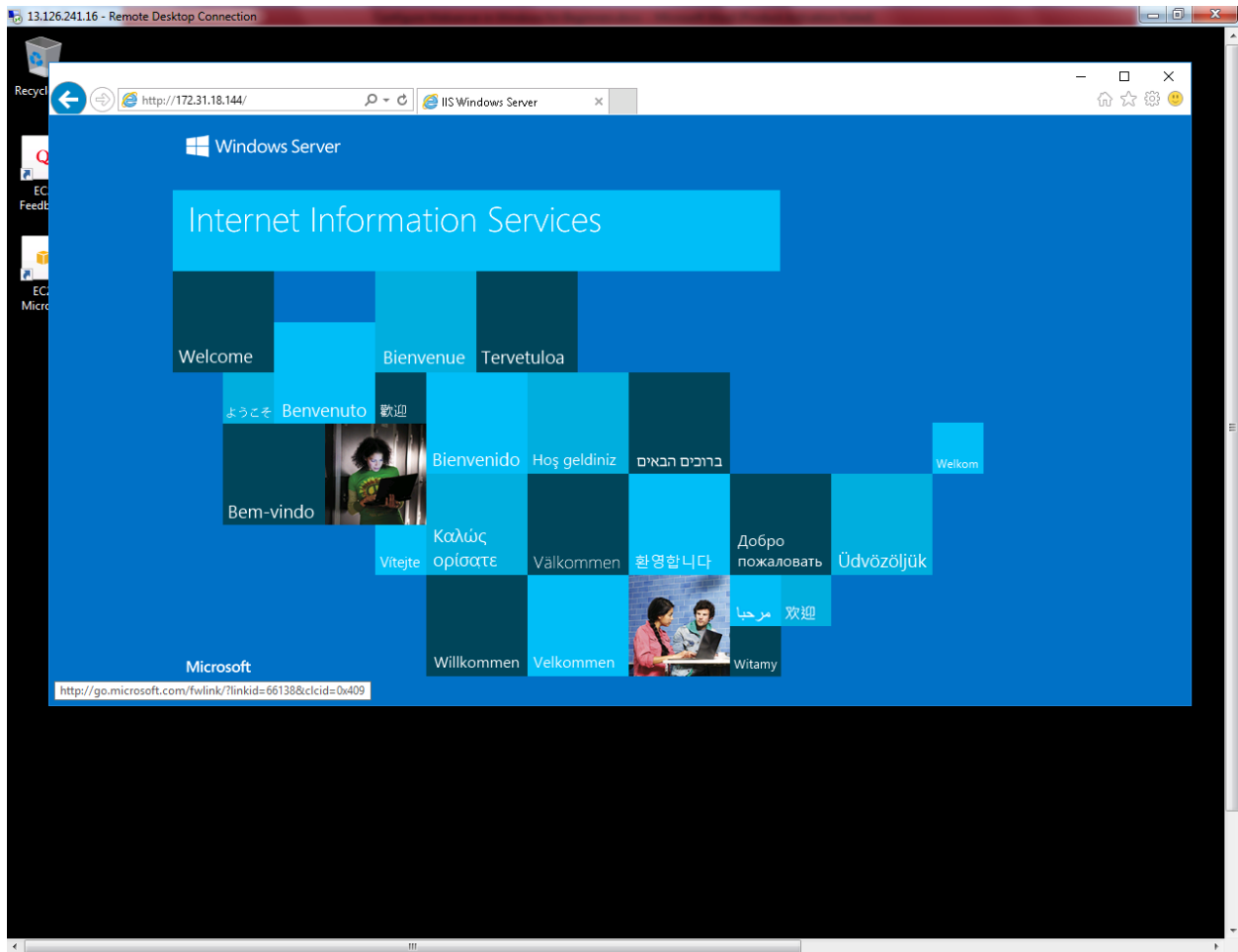


Click "Install".



IIS application installed successfully, click close.

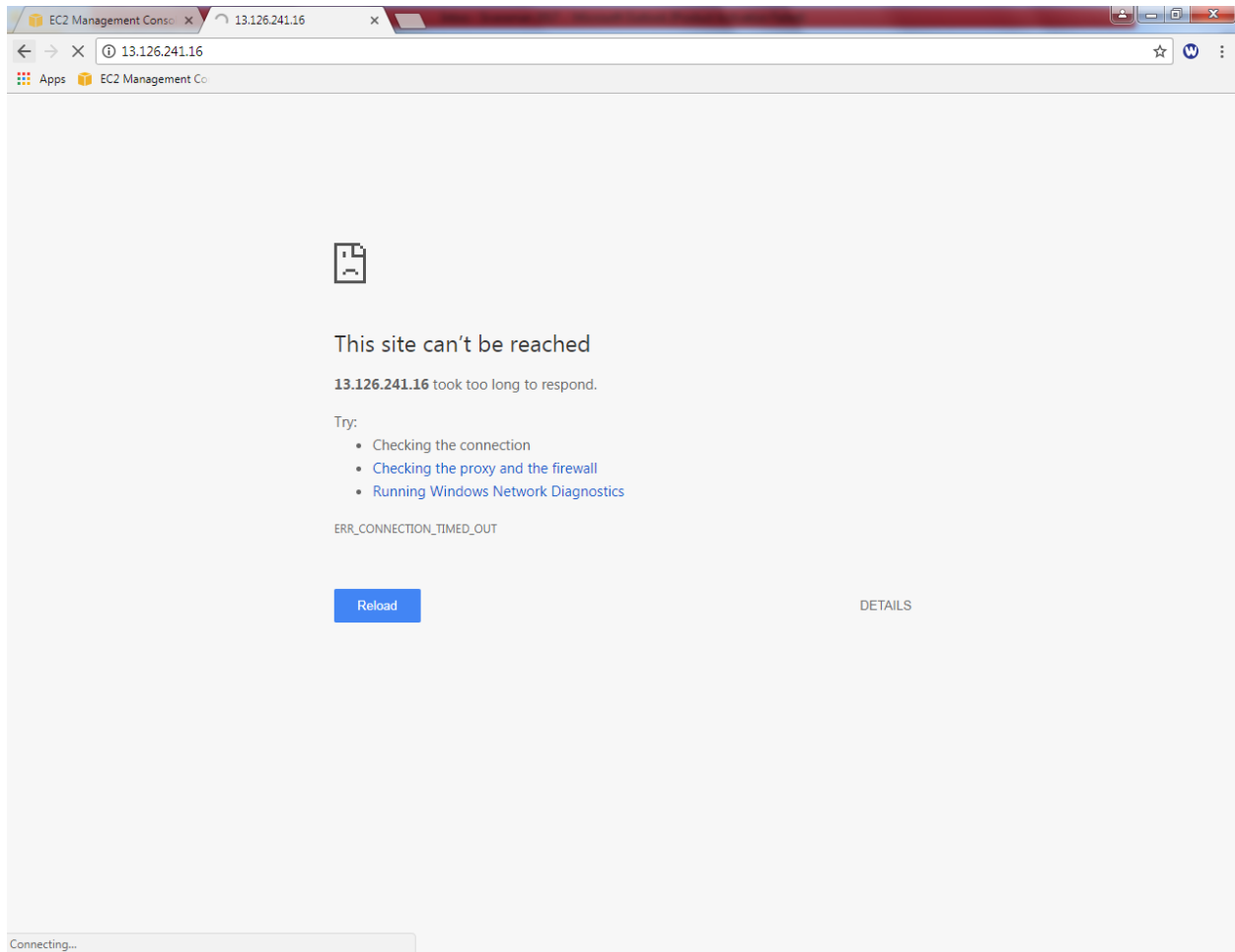
In Windows 2016 server, type the private IP address of the server <http://172.31.18.144> in internet explorer to view the web server.



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.

EC2 Management Console | 13.126.241.16 | <https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#SecurityGroups:sort=tag:Name>

Services | Resource Groups | siva1n82 | Mumbai | Support

EC2 Dashboard | Events | Tags | Reports | Limits

INSTANCES | 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

AUTO SCALING

Create Security Group | Actions

Filter by tags and attributes or search by keyword

| Name                                | Group ID    | Group Name        | VPC ID       | Description                |
|-------------------------------------|-------------|-------------------|--------------|----------------------------|
|                                     | sg-3b7d9350 | Testing_Sec_Group | vpc-a655a2ce | Testing_Sec_Group          |
| <input checked="" type="checkbox"/> | sg-3c846c57 | Evening_Sec_Group | vpc-a655a2ce | Evening_Sec_Group          |
|                                     | sg-a44c63cc | default           | vpc-a655a2ce | default VPC security group |

Security Group: sg-3c846c57

Description | Inbound | Outbound | Tags

Edit

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

Feedback | English (US) | © 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. | Privacy Policy | Terms of Use

Click “Add Rule”

Edit inbound rules

| Type | Protocol | Port Range | Source           | Description                |
|------|----------|------------|------------------|----------------------------|
| RDP  | TCP      | 3389       | Custom 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

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

Edit inbound rules

| Type | Protocol | Port Range | Source                 | Description                |
|------|----------|------------|------------------------|----------------------------|
| 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

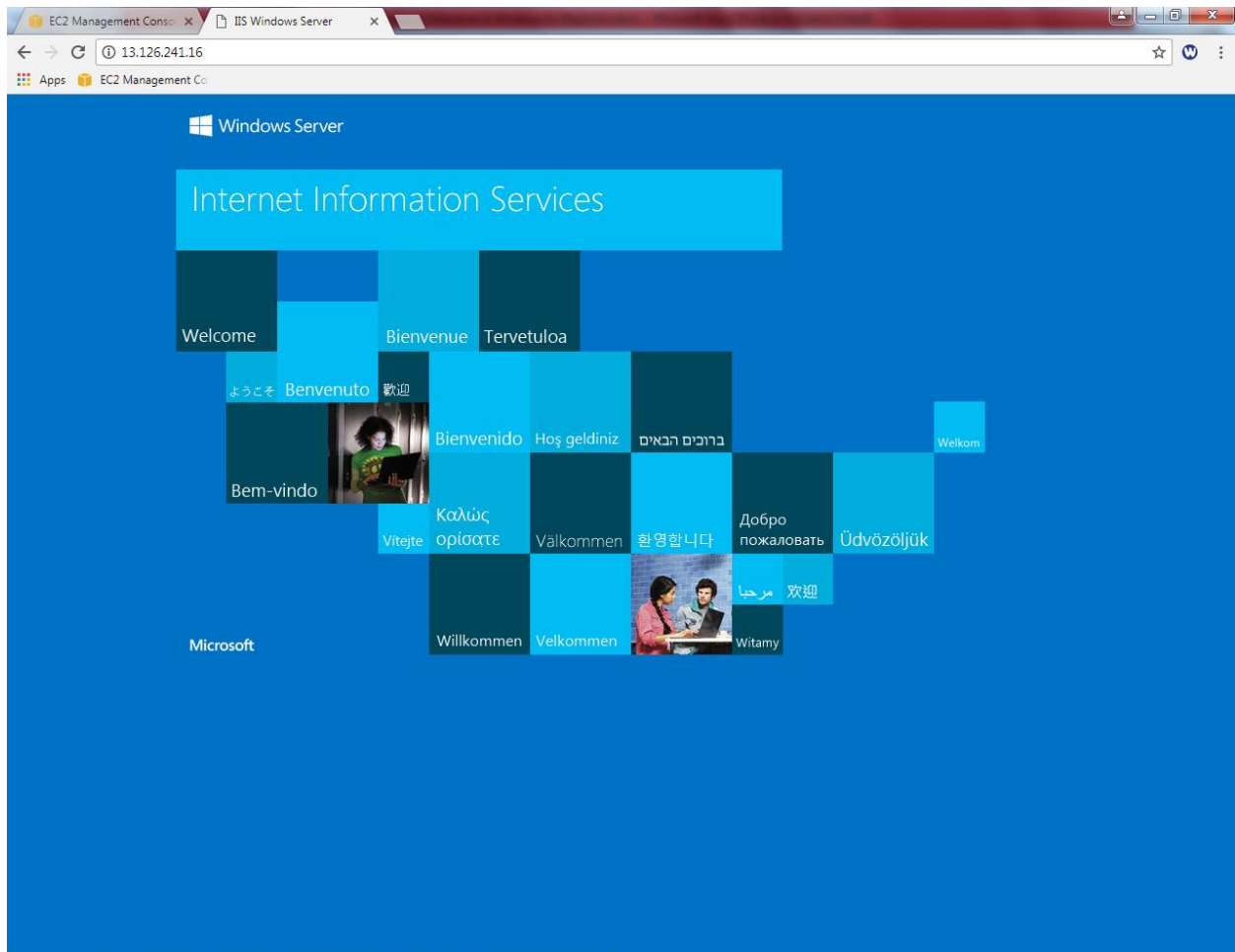
NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

CancelSave

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.