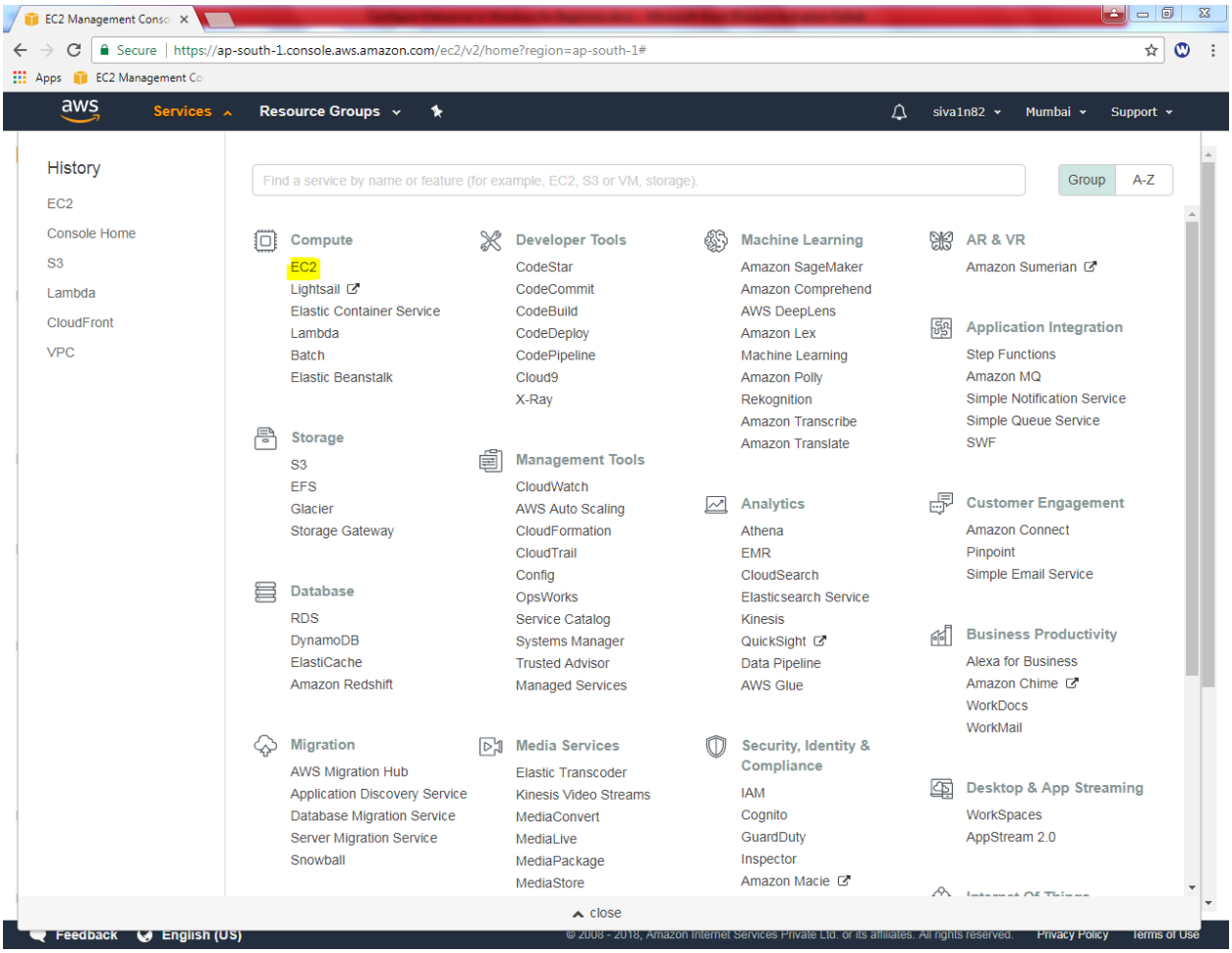
Lab2

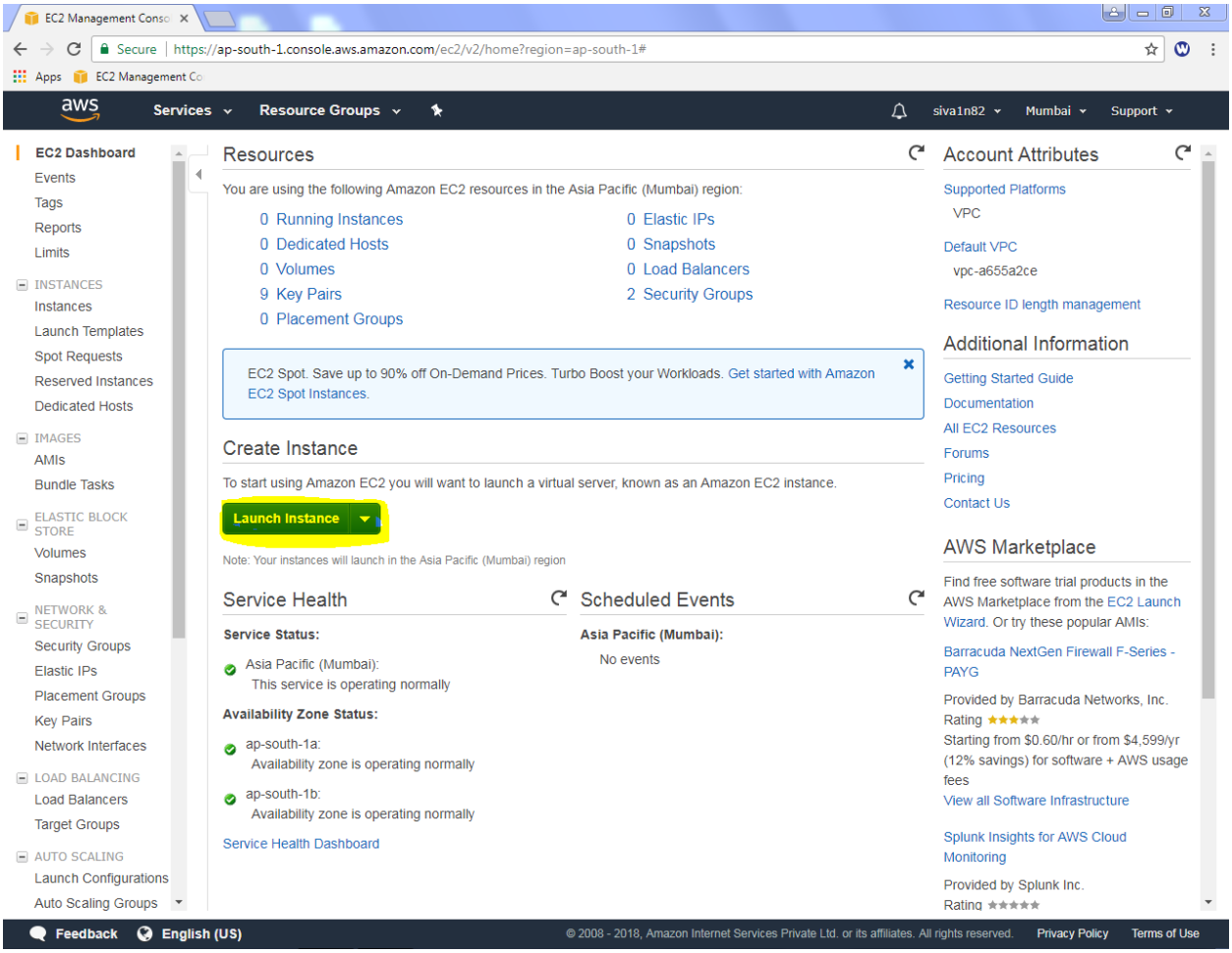
Configure IIS in Windows Instance – for beginners

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

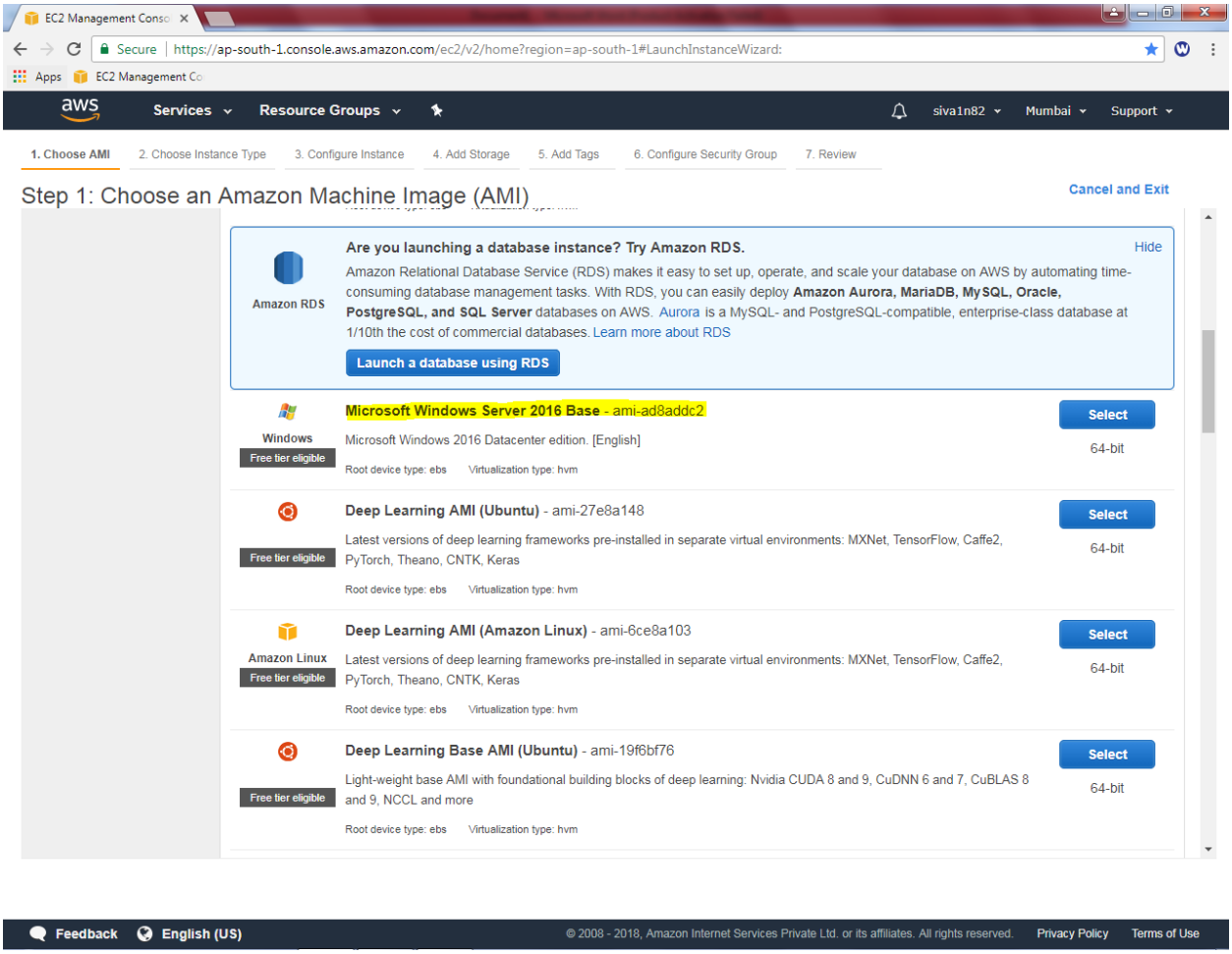


Click “EC2” service.

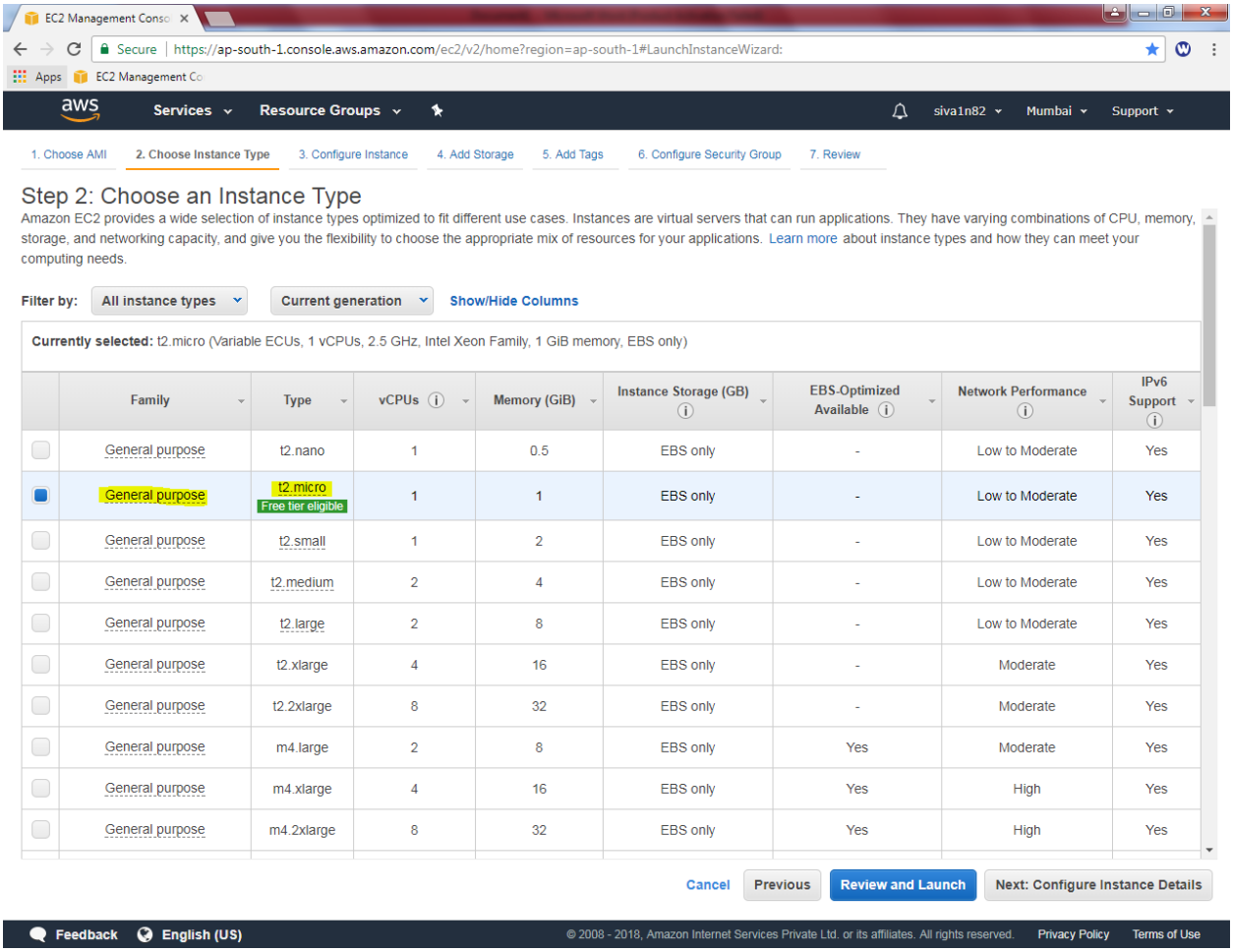
Then click “Launch Instance”.



Select “Microsoft Windows Server 2016 base” AMI.

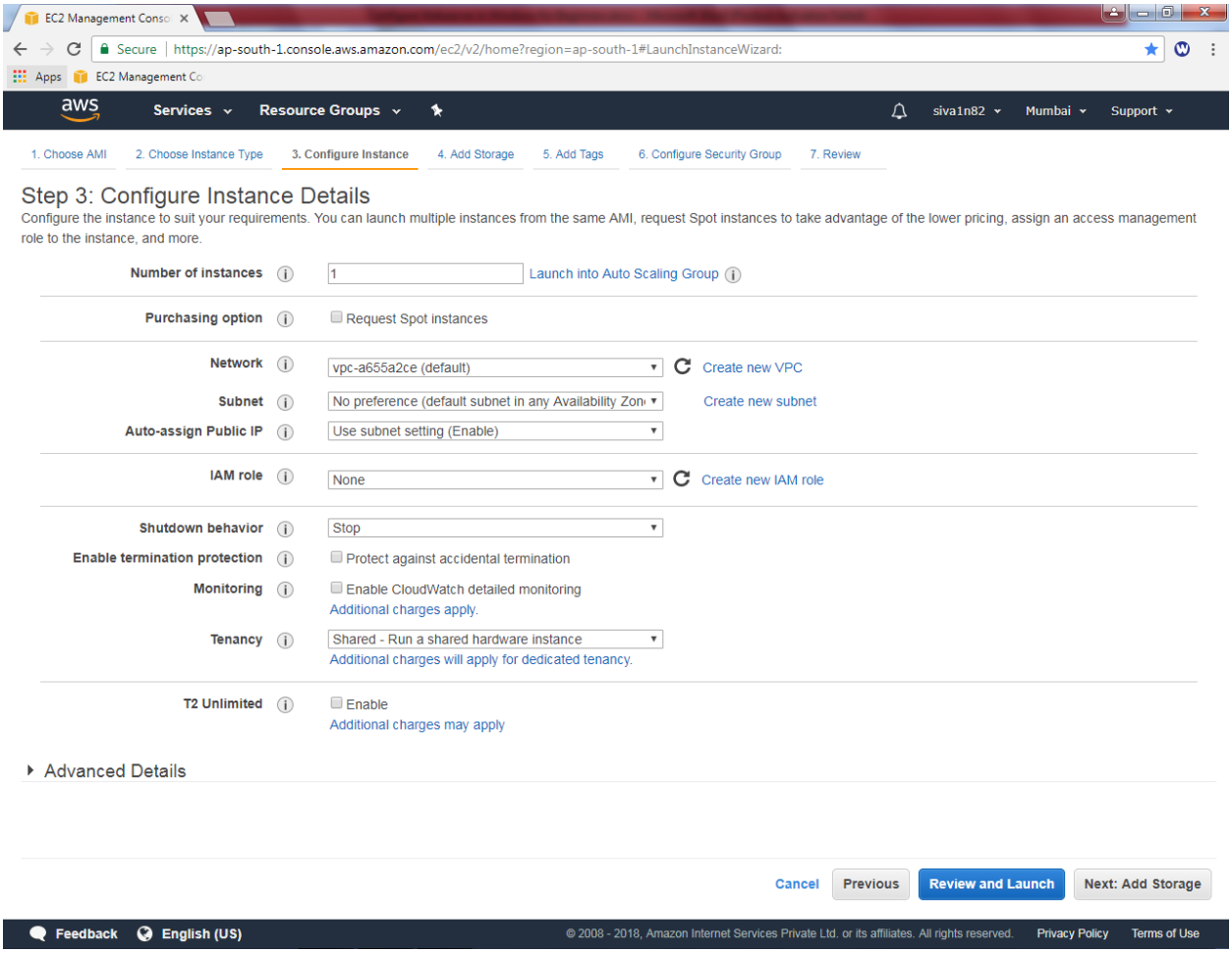


Then ensure “General Purpose” t2.micro is selected.

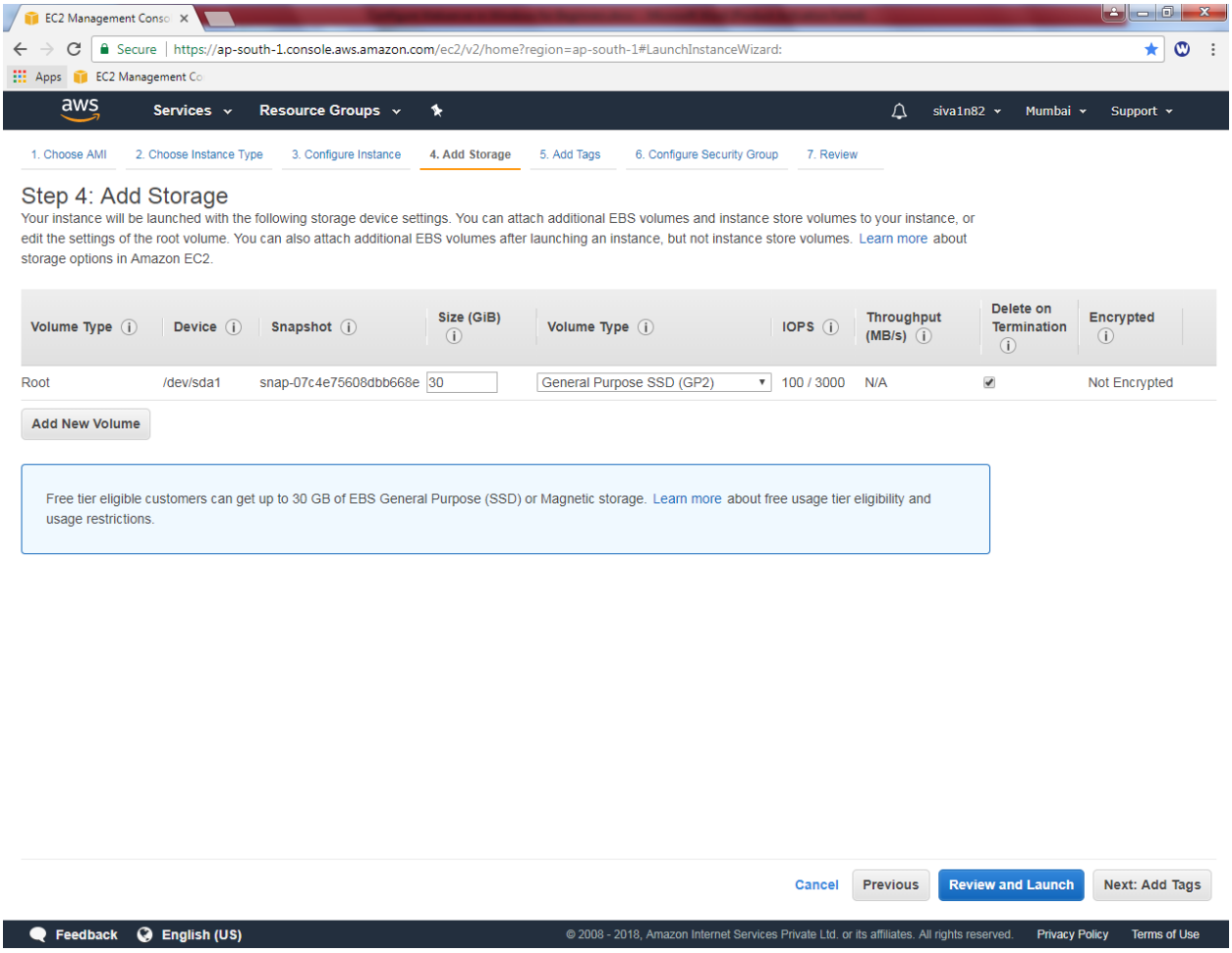


Click “Next”.

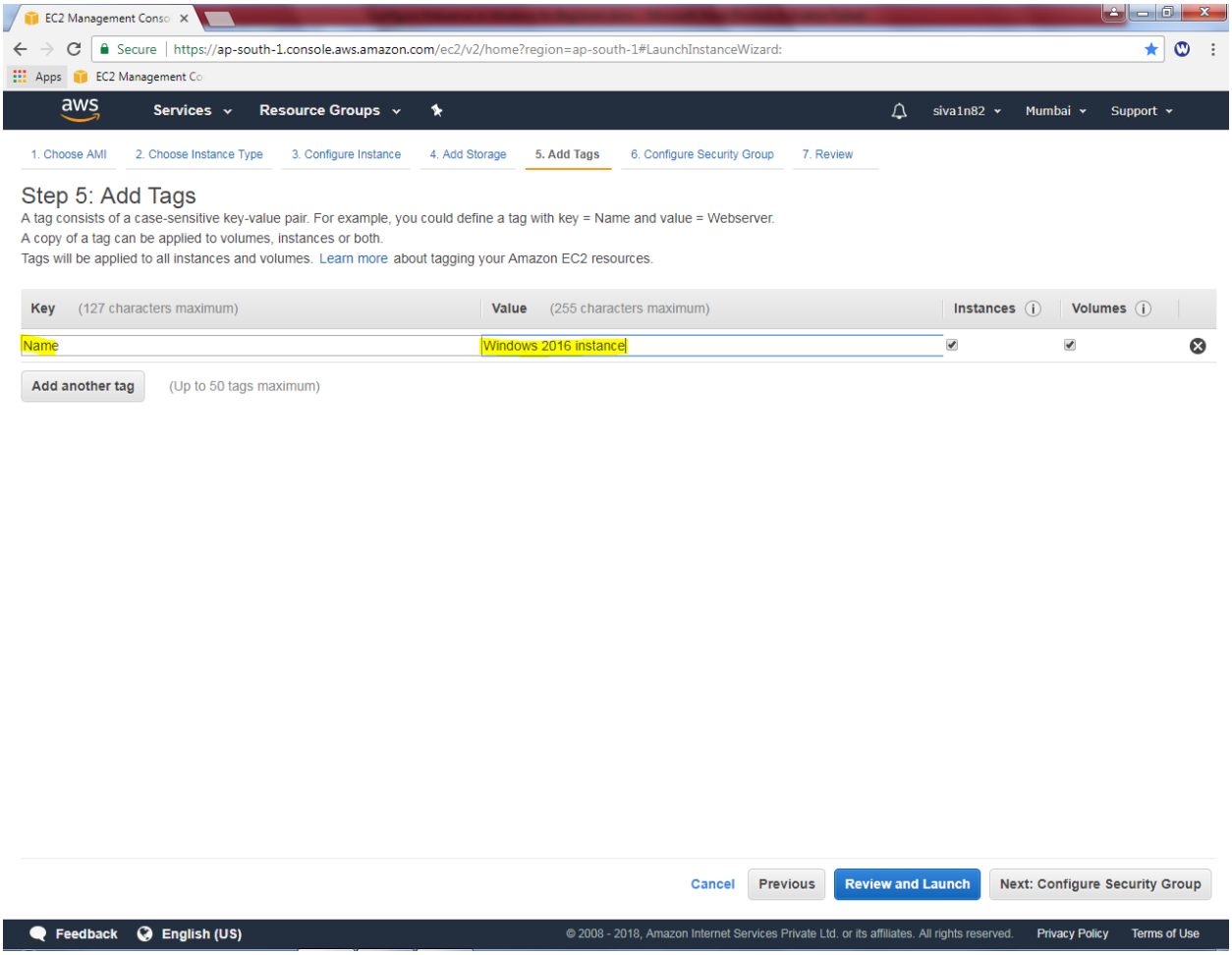
Leave the default settings and click “Next”.



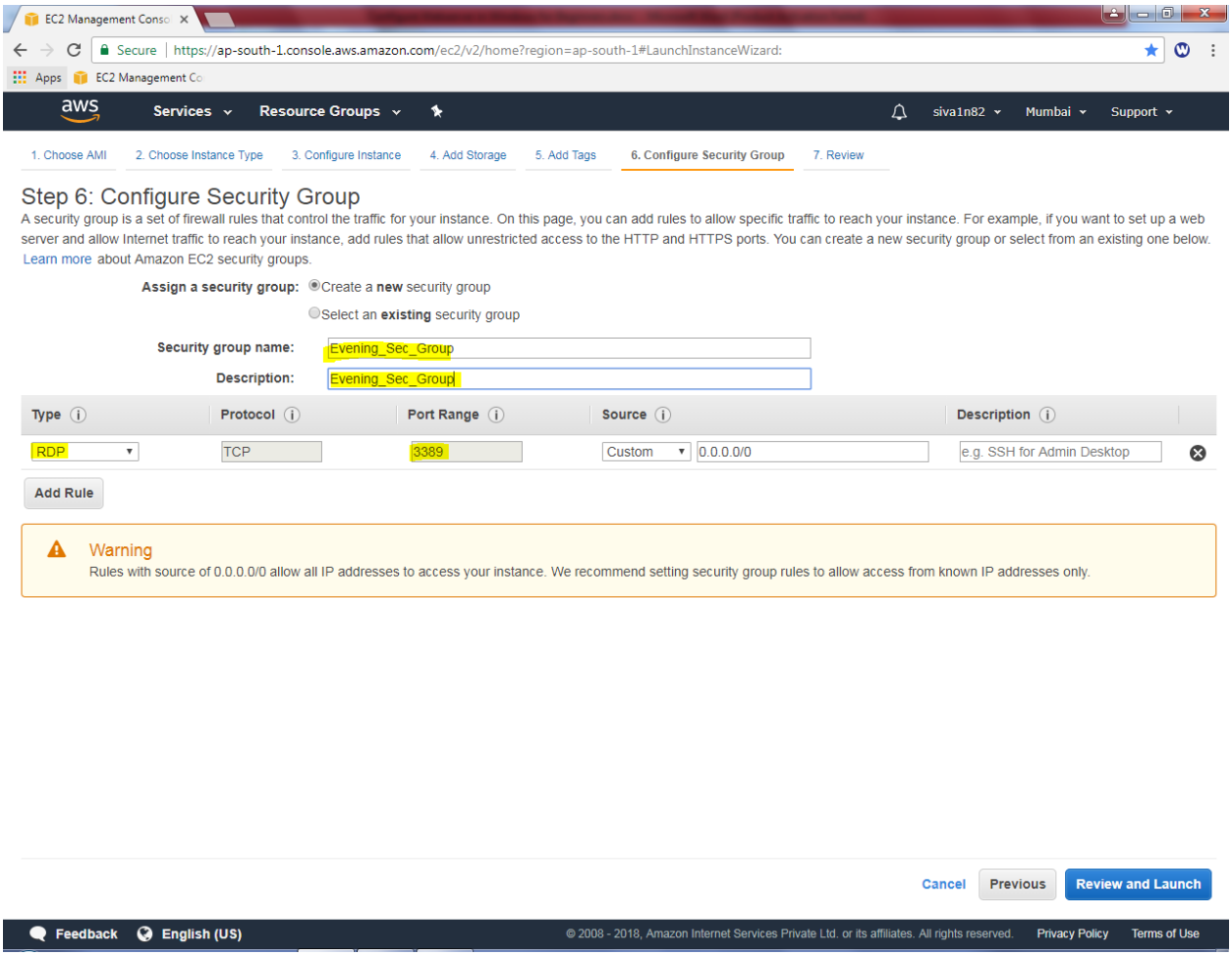
Leave the default settings and click “Next”.



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

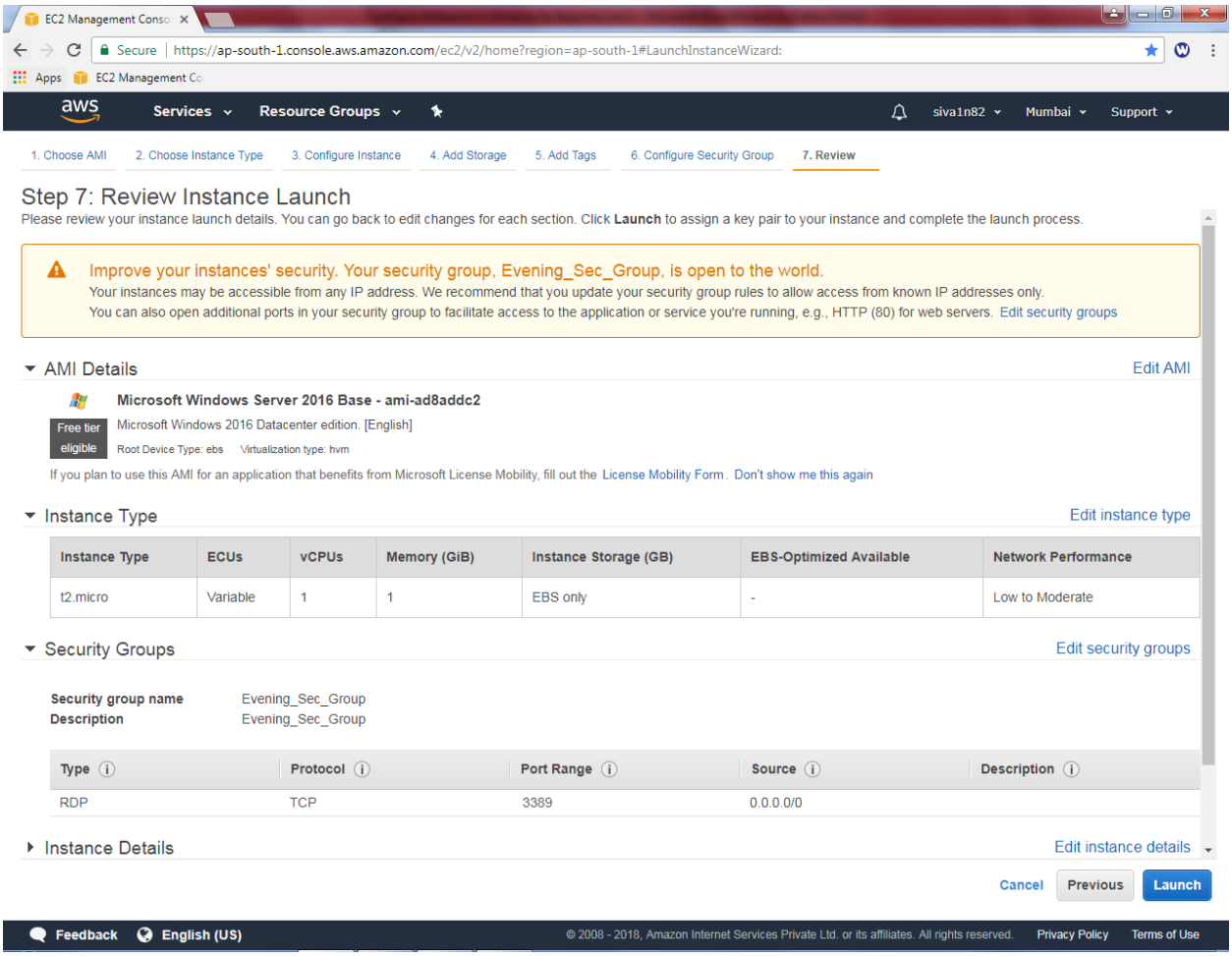


In Security group, create a new security group and type security group name as “Evening_Sec_Group” and description as “Evening_Sec_Group”. You can able to view that RDP port is permitted in Security group for manage the instance remotely.

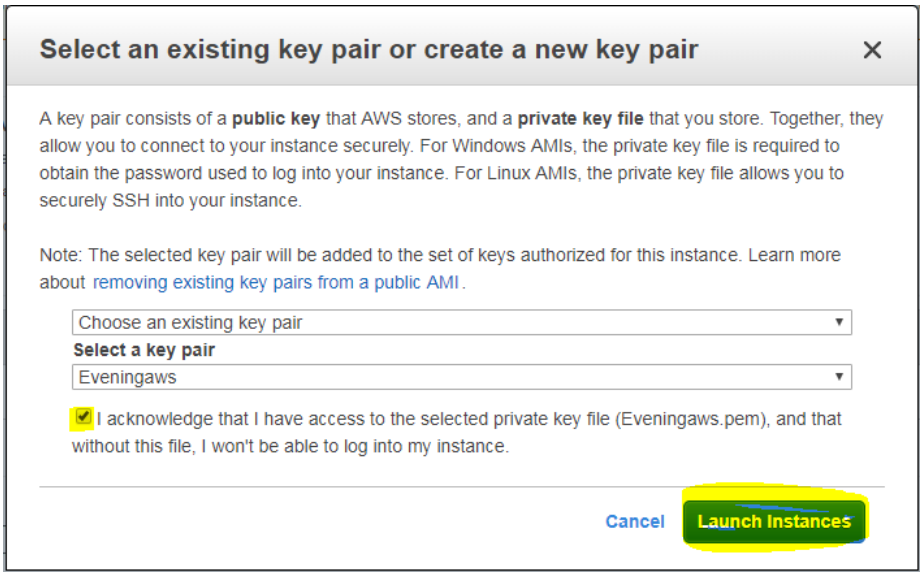


Click “Review and launch”.

Leave default settings and Click “Launch”.



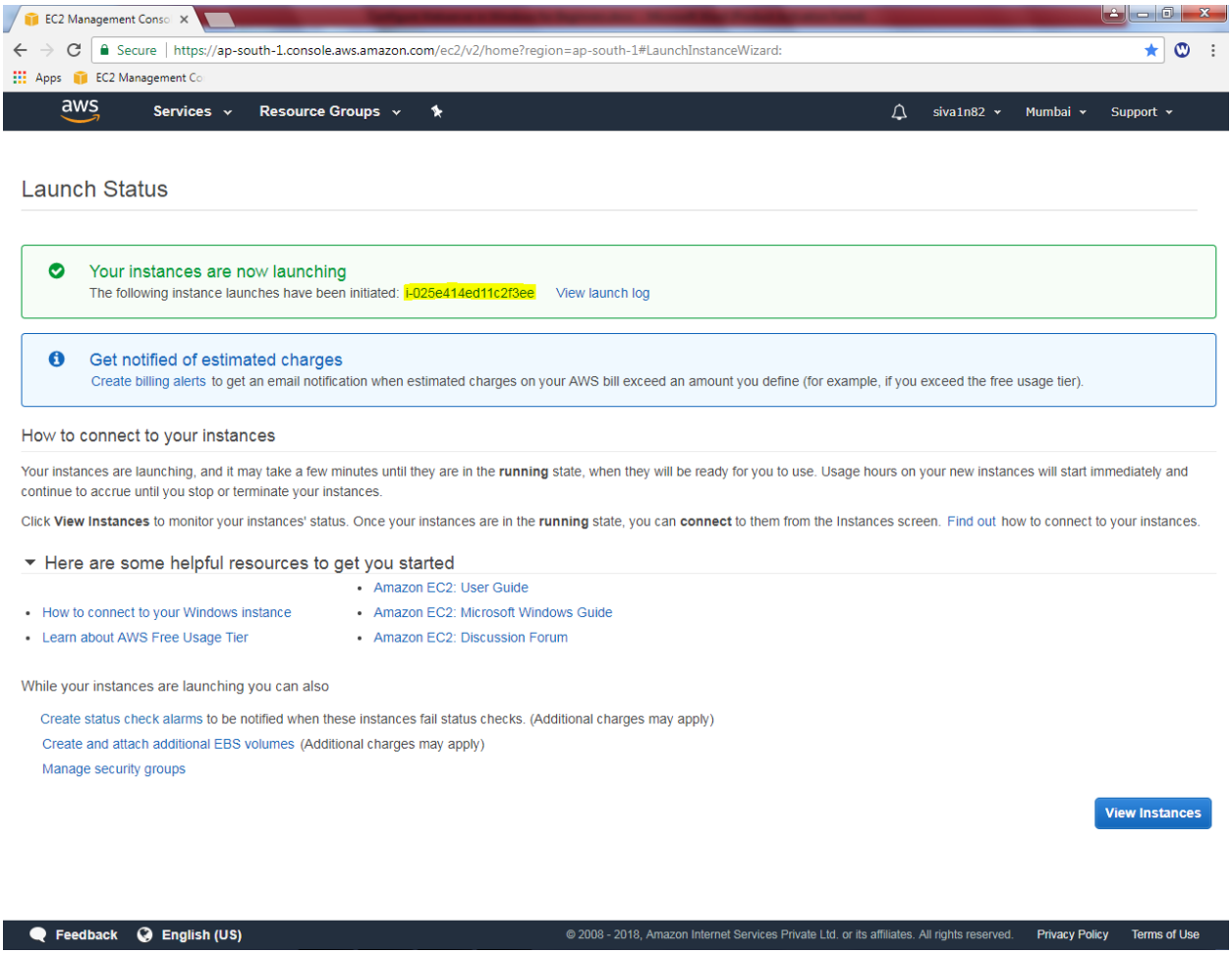
While click “Launch” button, it prompts to select Key pair or create a new key pair option.



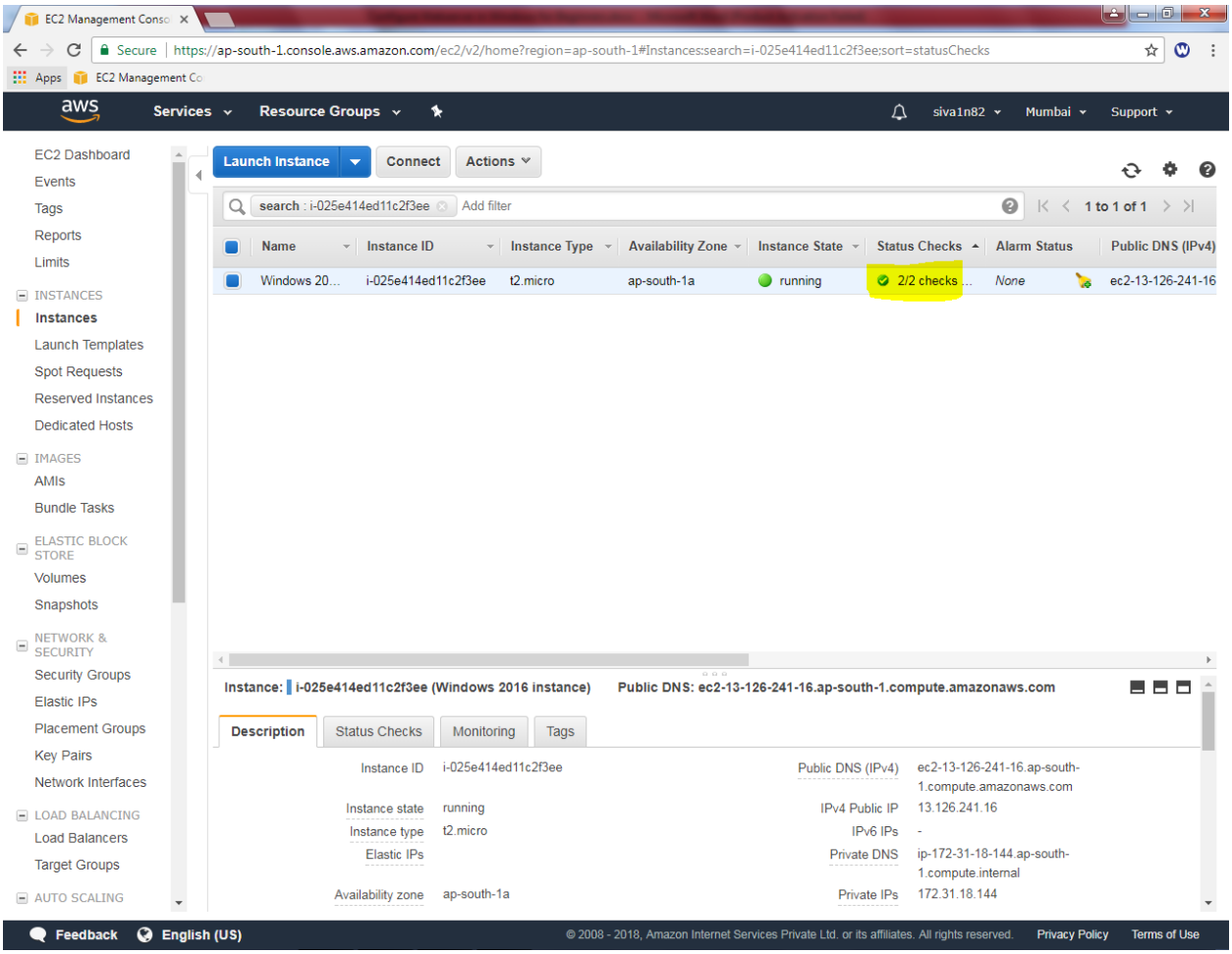
Select the choose an existing key pair if you have already downloaded *.pem file. Otherwise click create a new key pair. We have already key with us, hence I have selected choose an existing key pair option. And select the “Eveningaws” key from drop down box. Then click “I acknowledge”.

Click “launch instance”.

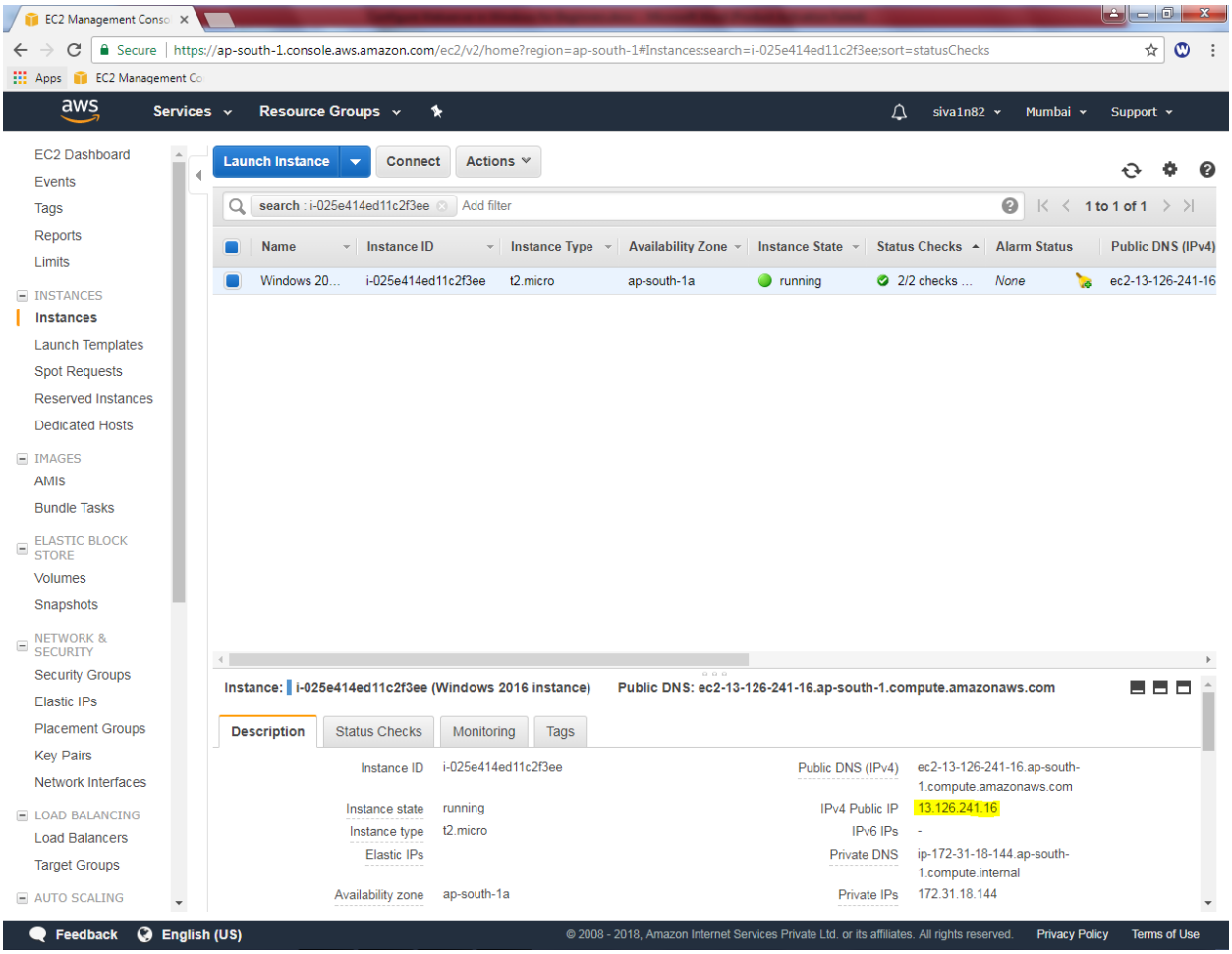
Now you have created an instance and launched successfully. Click the highlighted area or view instance to view the windows 2016 server instance.



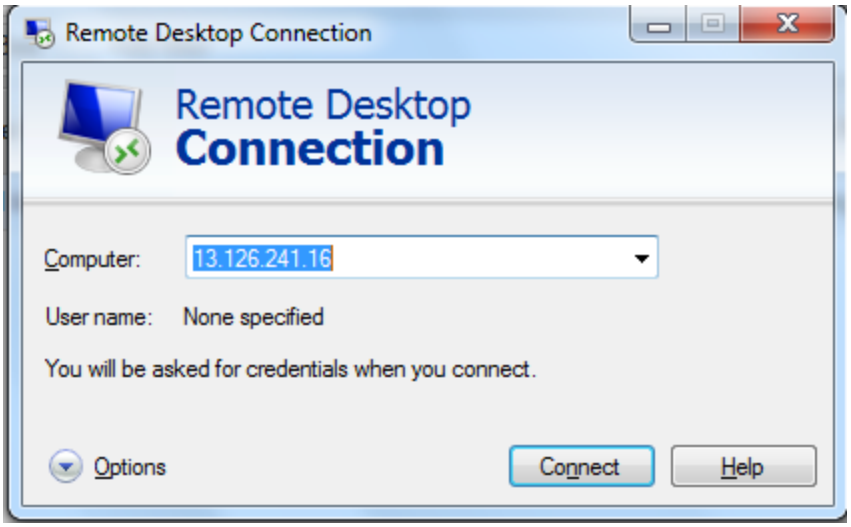
Please wait up to the status checks becomes 2/2 checks.



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

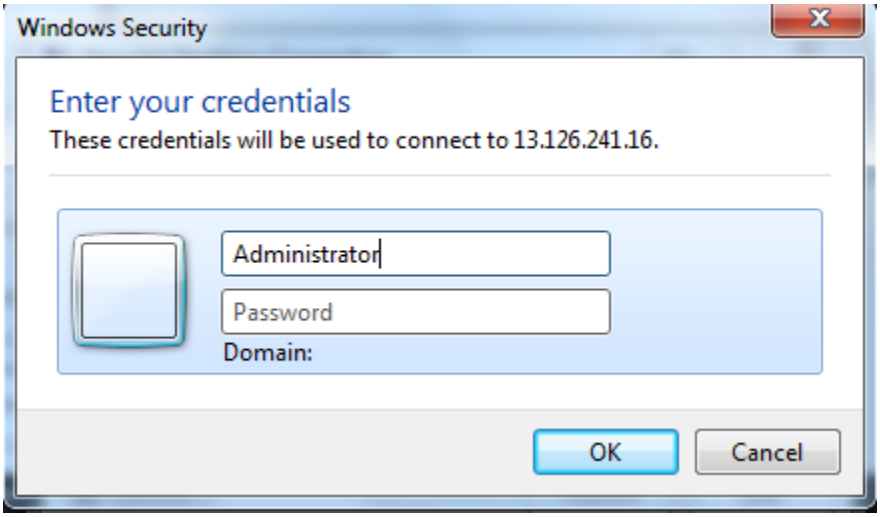


Try to connect the IP, from your local machine by using mstsc in run command.

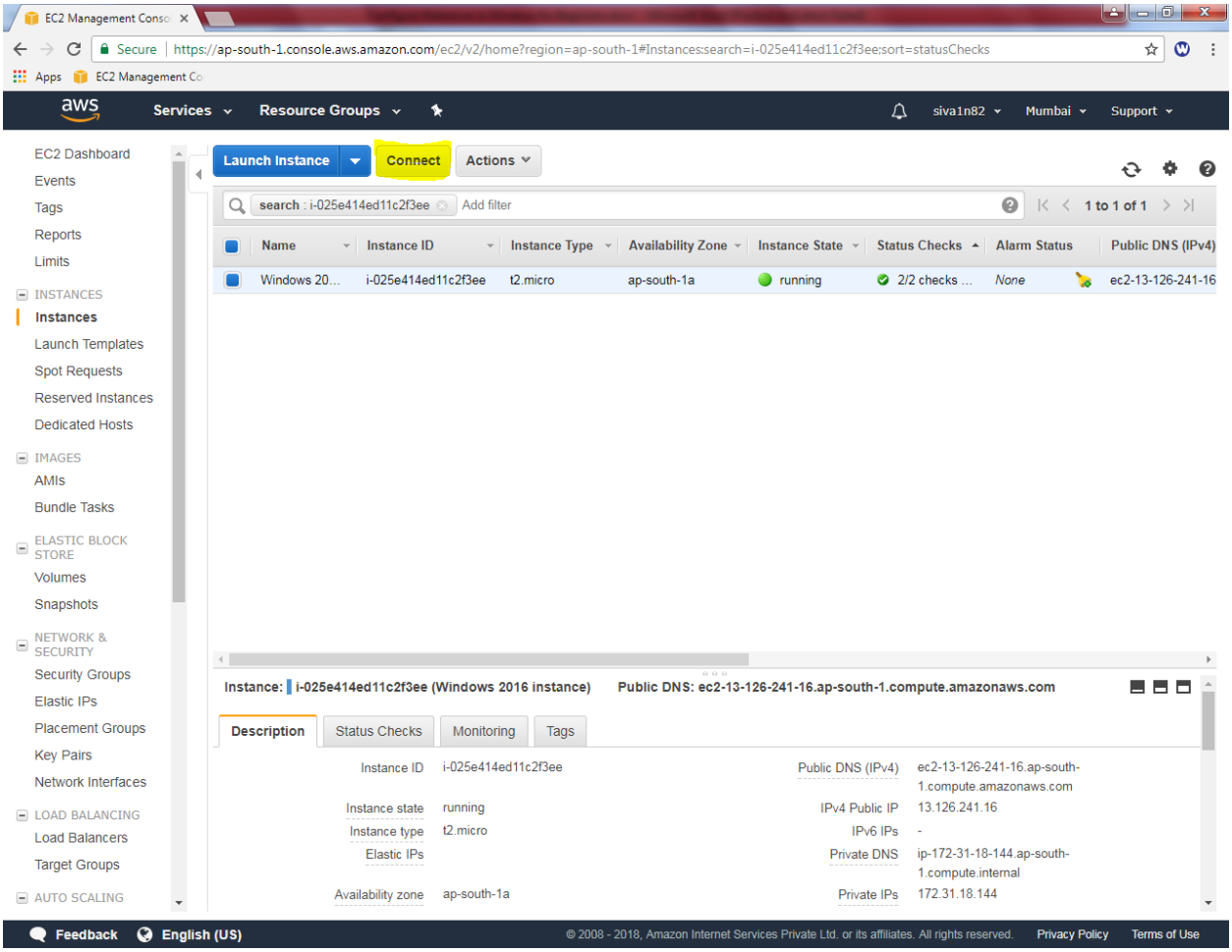


It prompts, password

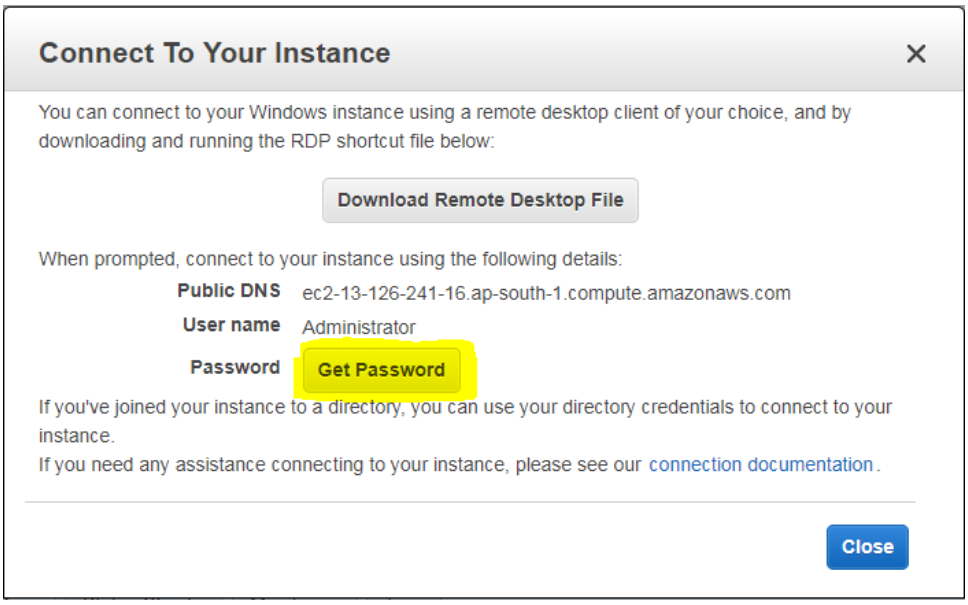
Username : Administrator



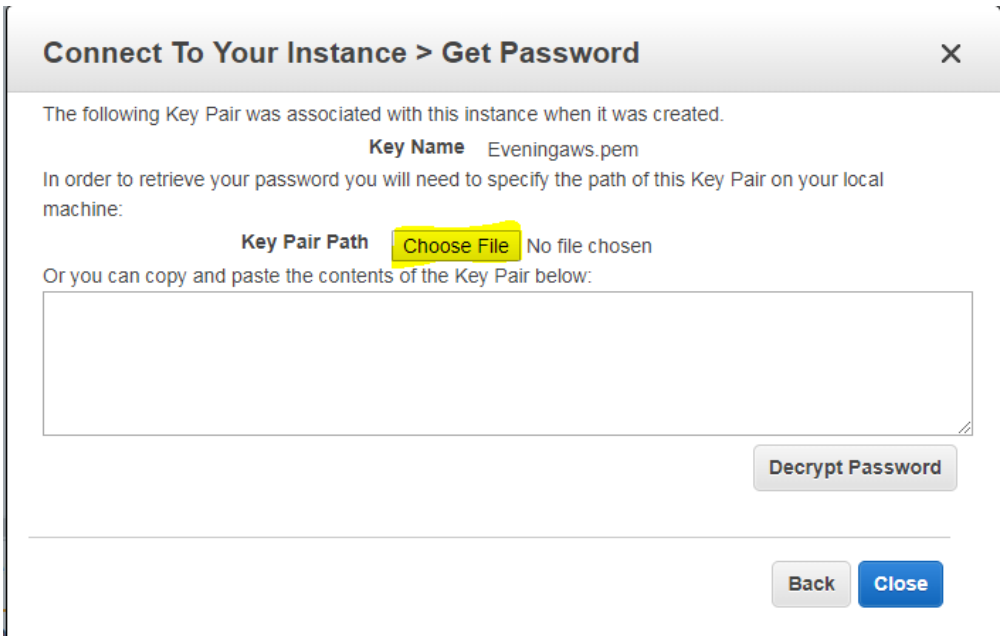
We need to get the password, select the instance and then click “Connect”.



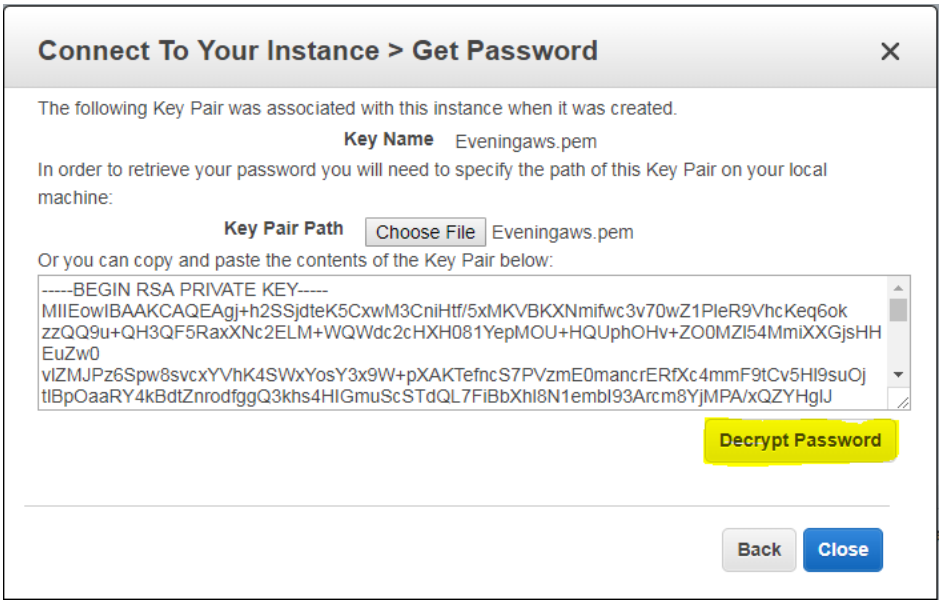
Click “Get Password” button



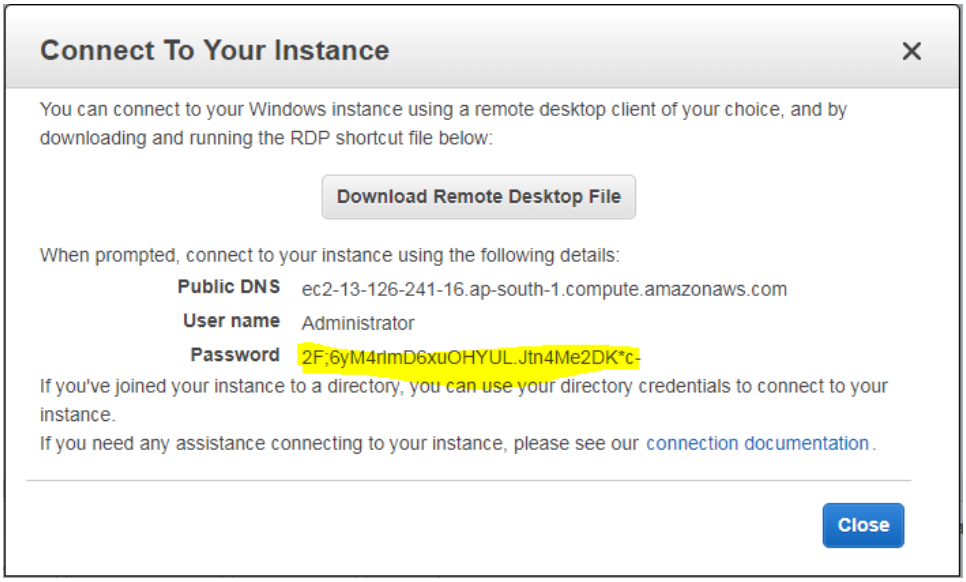
Then click “Choose File” button, and locate the Eveningaws.pem file from the downloaded path.



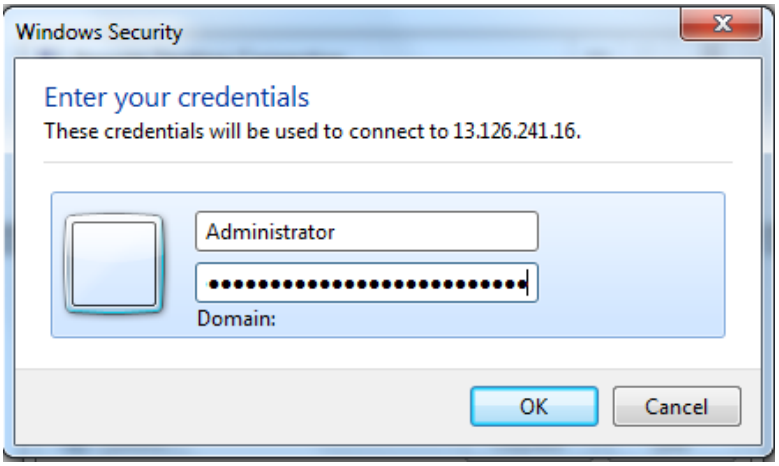
Click “Decrypt password”



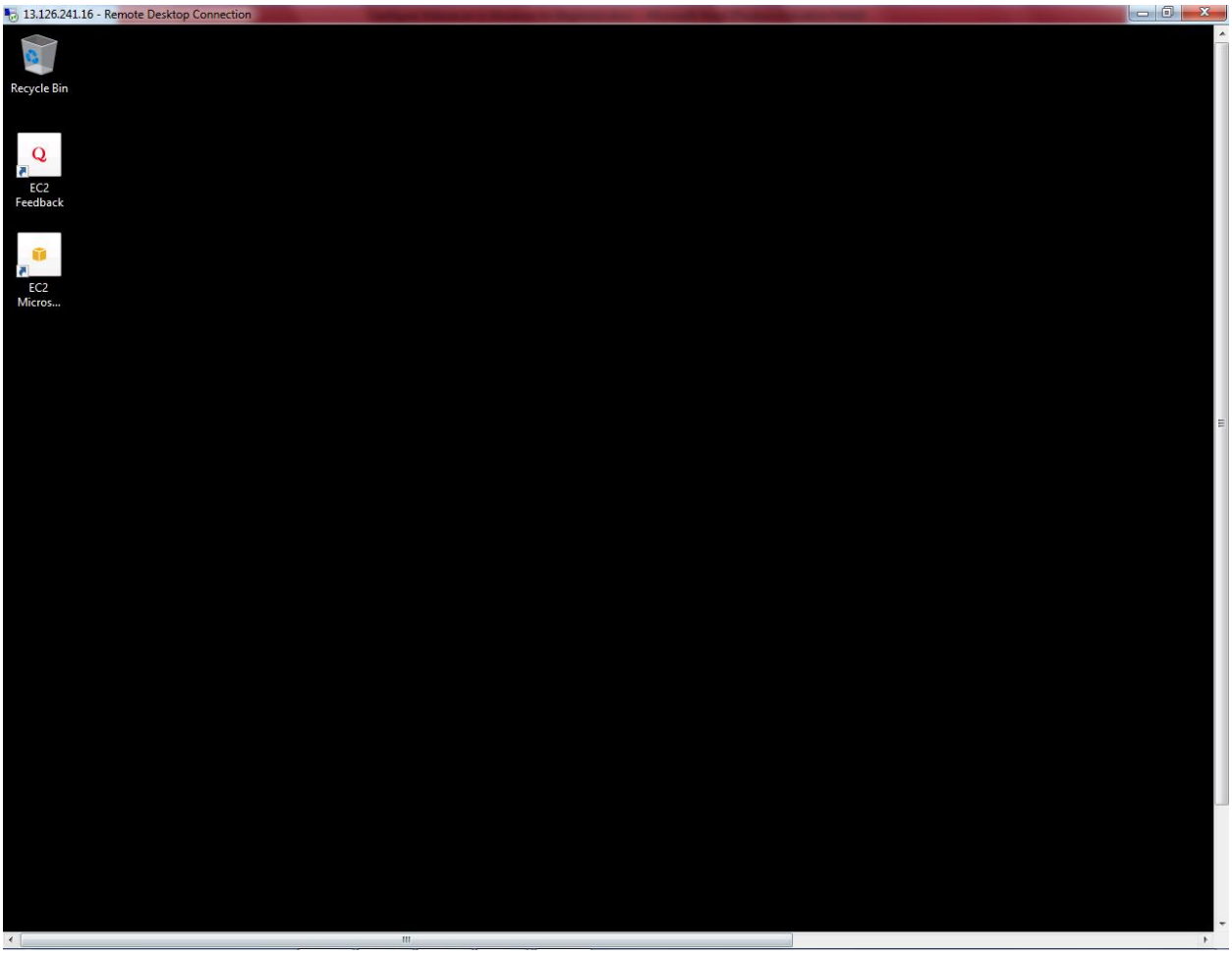
Please find the password for the Windows 2016 server as below.



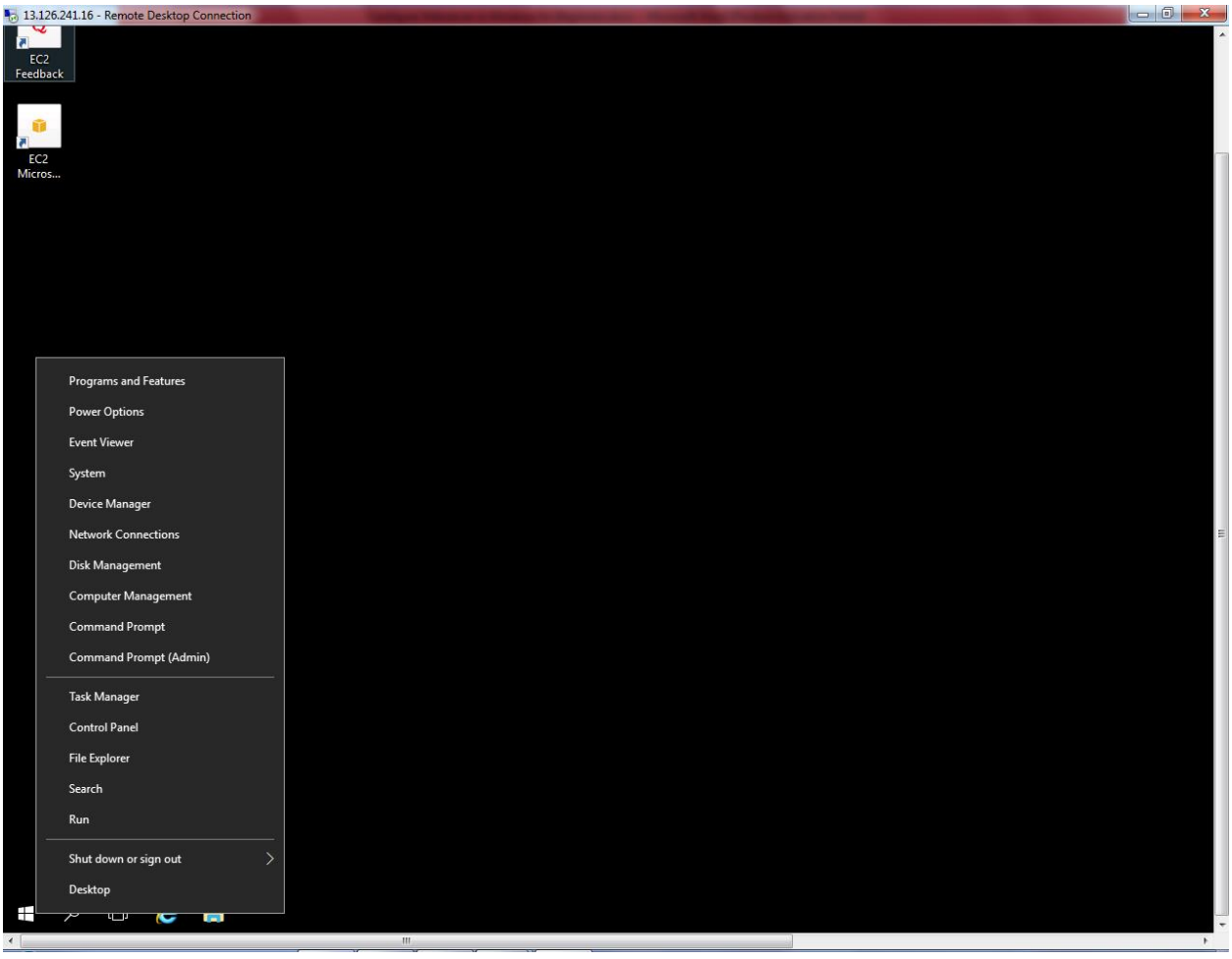
Now trying to connect the server by using above login credentials.



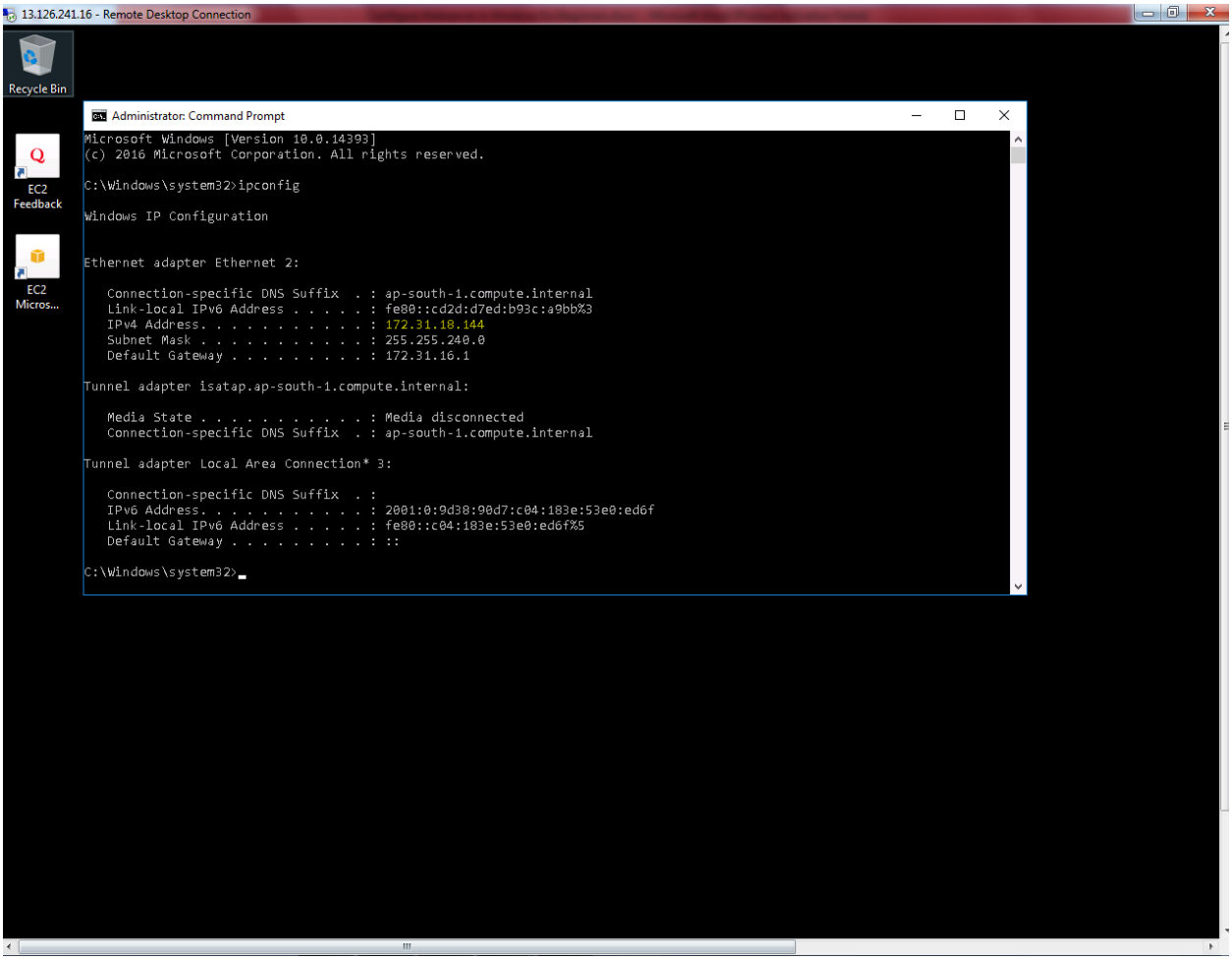
Now we have successfully logged into the server.



In start menu, right click then select command prompt.



In command prompt, type **ipconfig**



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

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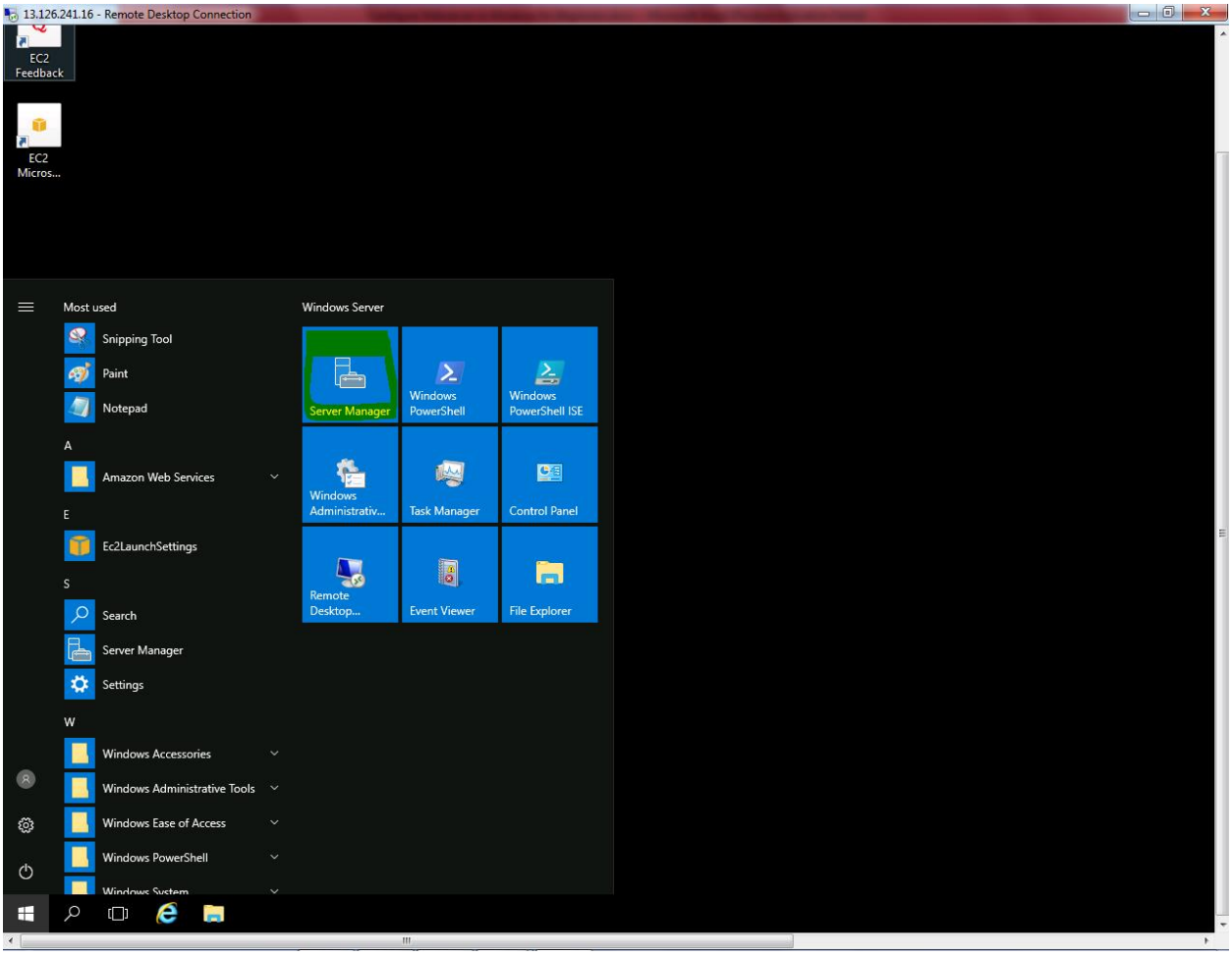
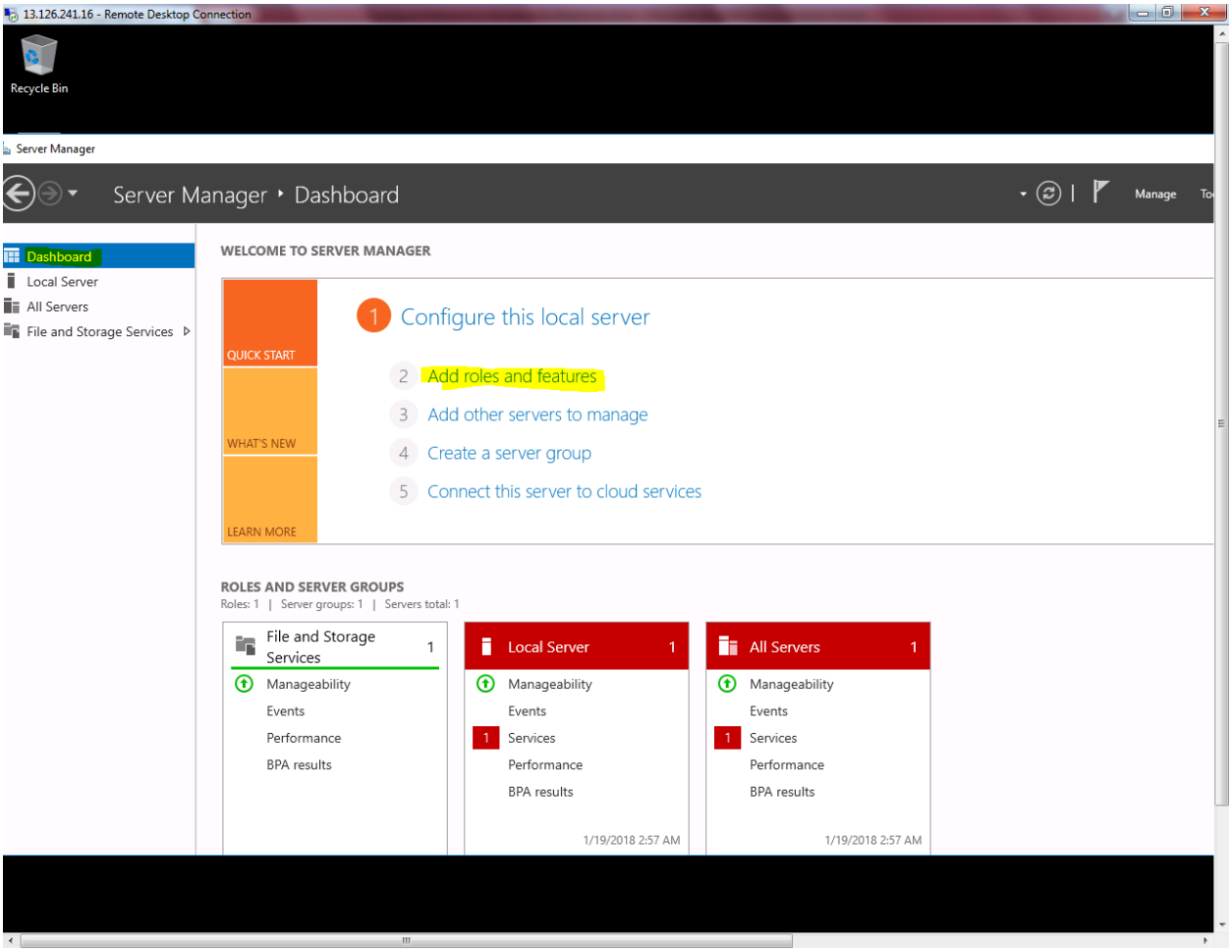
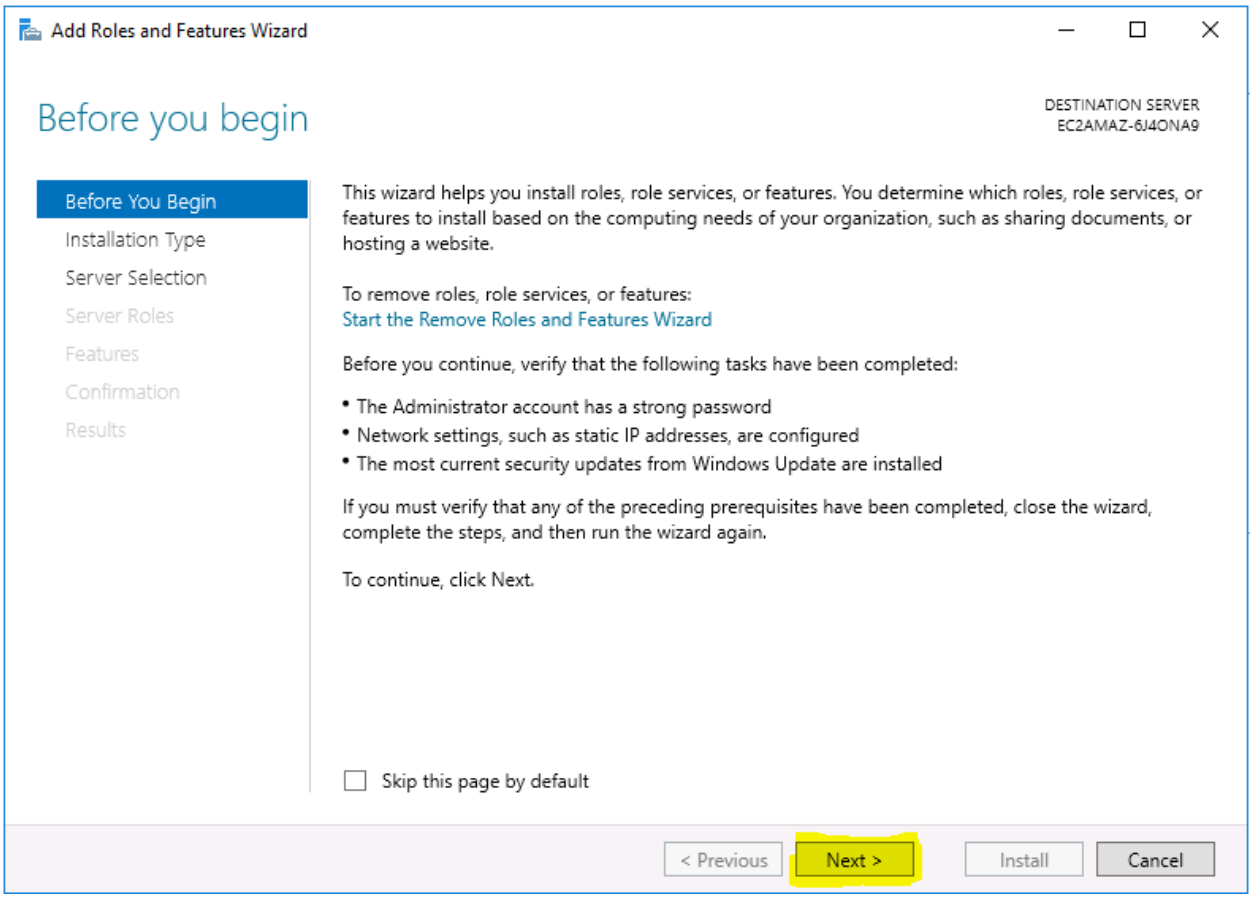
Click “Server manager”.

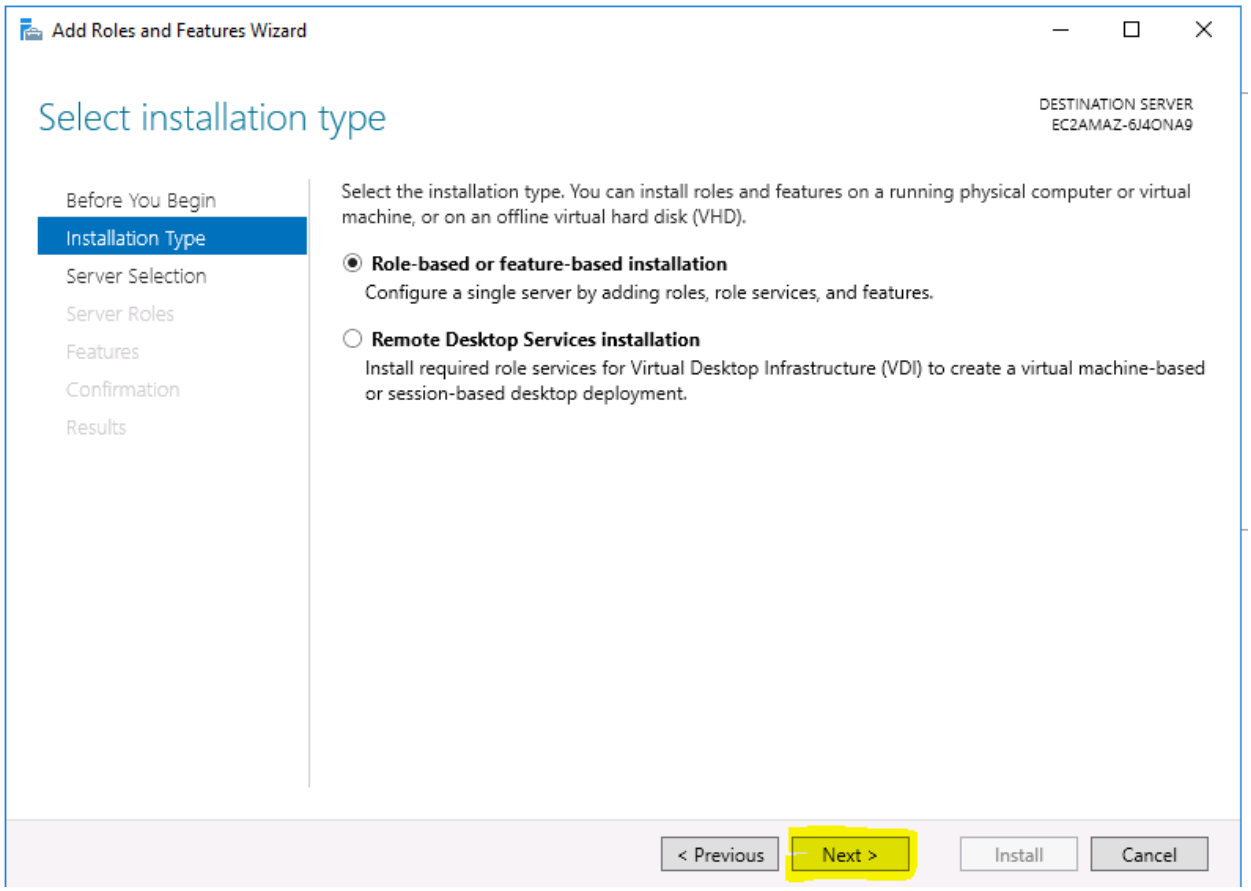


Click “Add Roles and features”

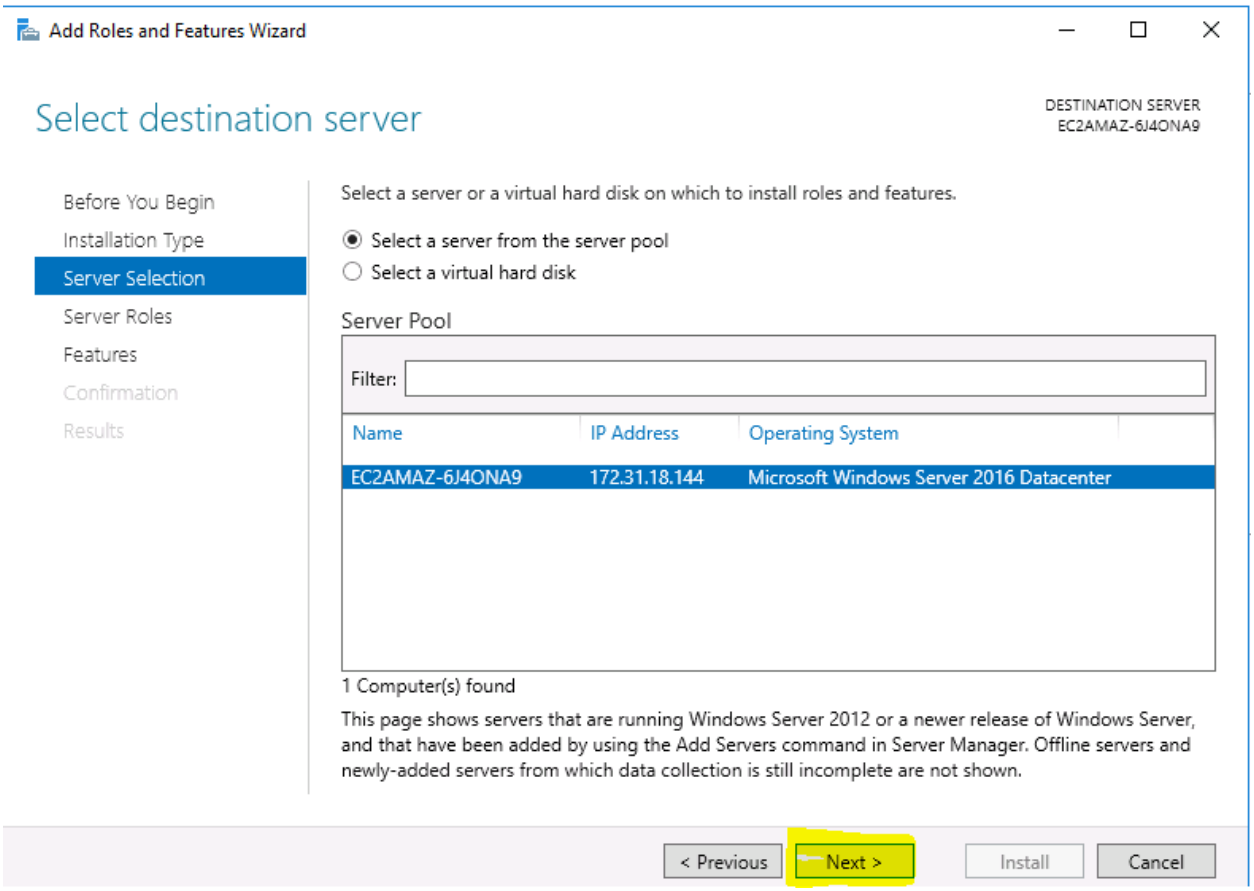

13.126.241.16 - Remote Desktop Connection
Recycle Bin
Server Manager
Server Manager ‣ Dashboard
Manage
Dashboard
Local Server
All Servers
File and Storage Services
WELCOME TO SERVER MANAGER
QUICK START
WHAT'S NEW
LEARN MORE
1 Configure this local server
2 Add roles and features
3 Add other servers to manage
4 Create a server group
5 Connect this server to cloud services
ROLES AND SERVER GROUPS
Roles: 1 | Server groups: 1 | Servers total: 1
File and Storage Services 1
Manageability
Events
Performance
BPA results
Local Server 1
Manageability
Events
1 Services
Performance
BPA results
1/19/2018 2:57 AM
All Servers 1
Manageability
Events
1 Services
Performance
BPA results
1/19/2018 2:57 AM


Add Roles and Features Wizard
Before you begin
DESTINATION SERVER
EC2AMAZ-6J4ONA9
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.
To remove roles, role services, or features:
Start the Remove Roles and Features Wizard
Before you continue, verify that the following tasks have been completed:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The most current security updates from Windows Update are installed
If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
< Previous
Next >
Install
Cancel

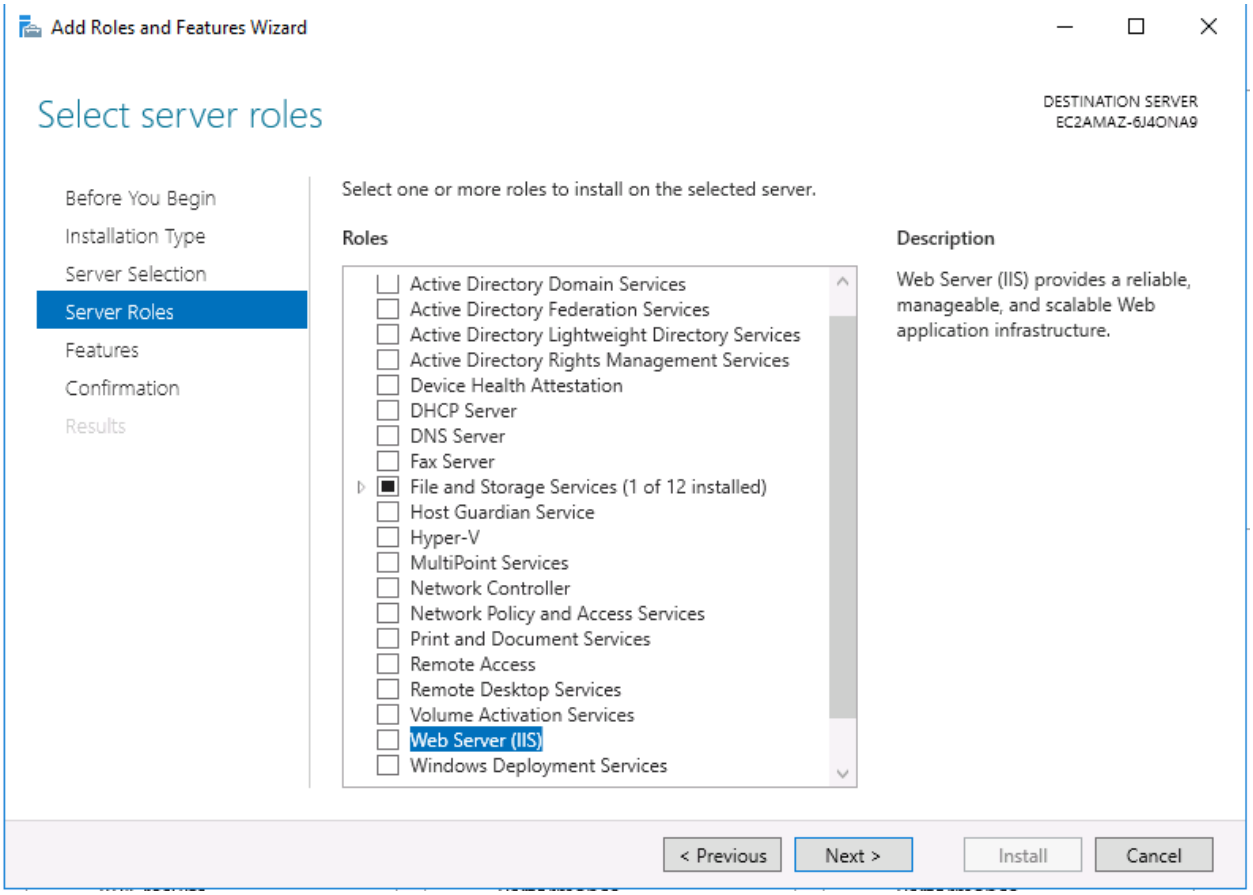
Click “Next”.


Add Roles and Features Wizard
Select installation type
DESTINATION SERVER
EC2AMAZ-6J4ONA9
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
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

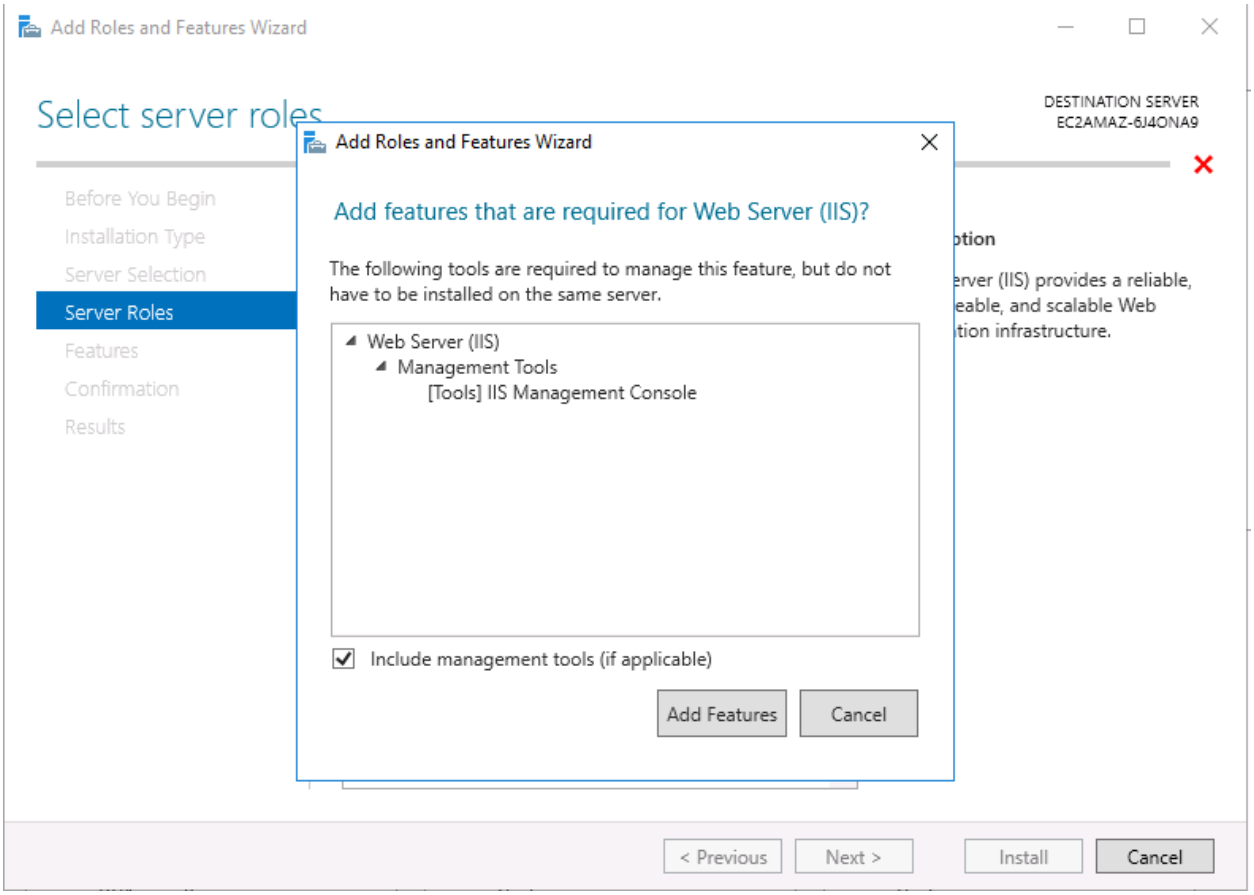
Click “Next”.


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

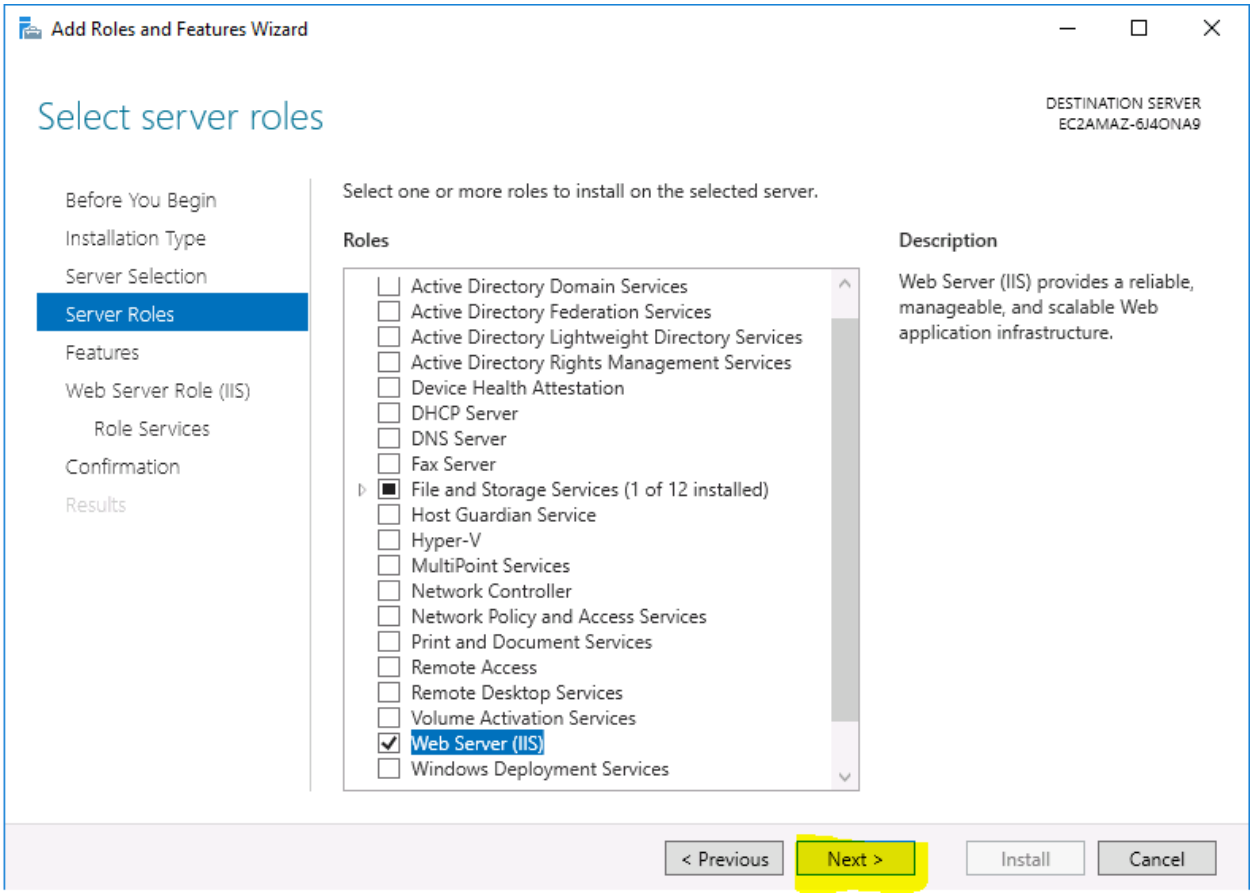
Click “Next”.



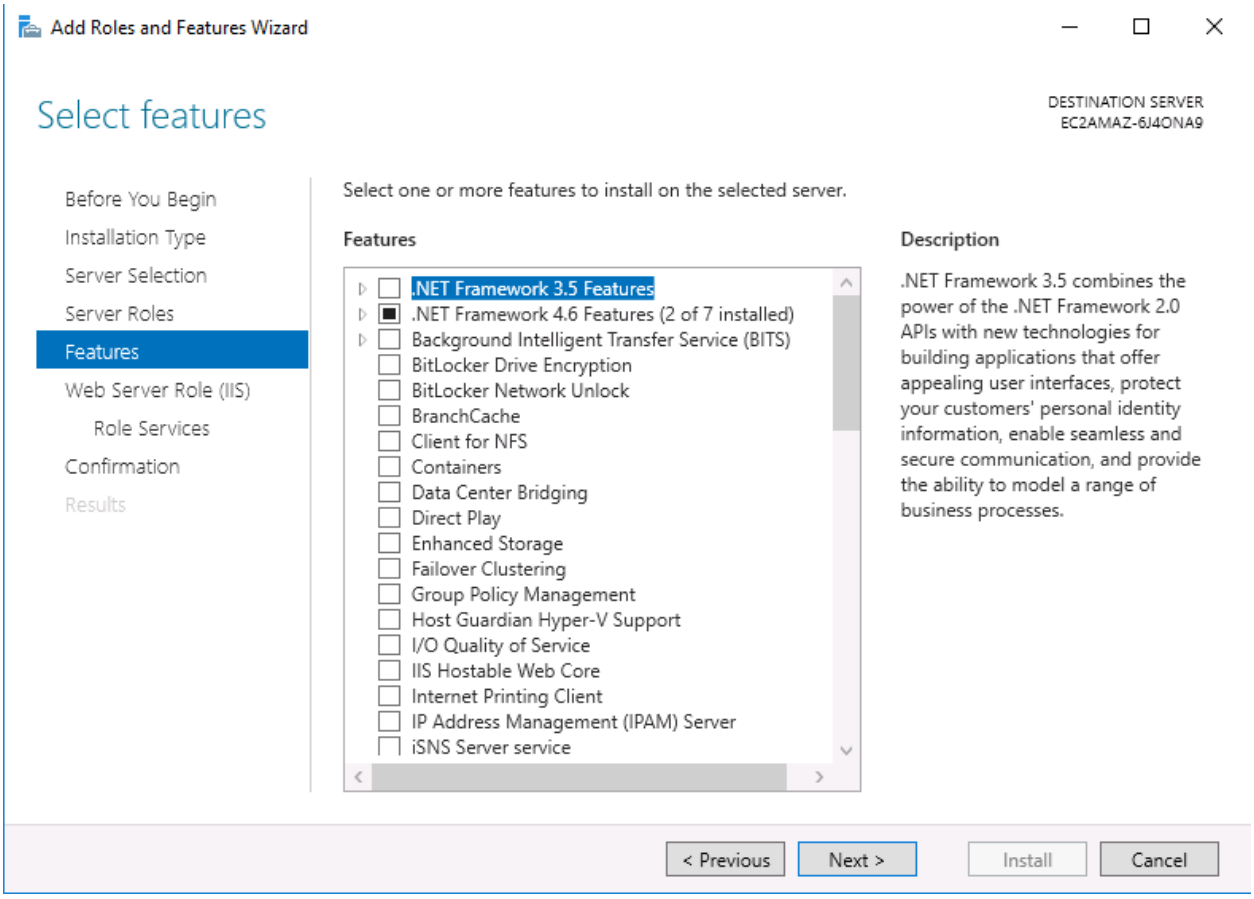
Check “Web server IIS” option button.



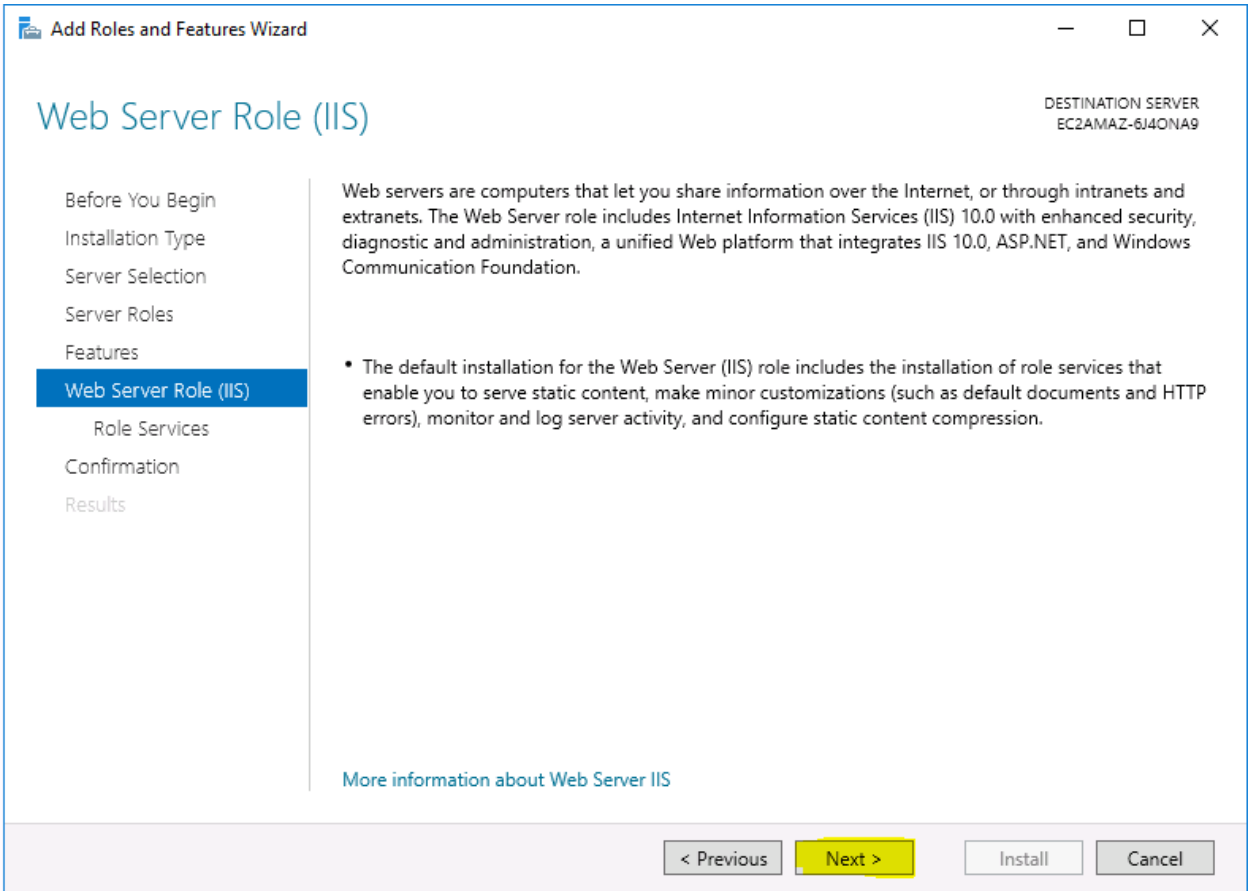
Click “Add features”.


Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
EC2AMAZ-6J4ONA9
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Select one or more roles to install on the selected server.
Roles
Active Directory Domain Services
Active Directory Federation Services
Active Directory Lightweight Directory Services
Active Directory Rights Management Services
Device Health Attestation
DHCP Server
DNS Server
Fax Server
File and Storage Services (1 of 12 installed)
Host Guardian Service
Hyper-V
MultiPoint Services
Network Controller
Network Policy and Access Services
Print and Document Services
Remote Access
Remote Desktop Services
Volume Activation Services
Web Server (IIS)
Windows Deployment Services
Description
Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.
< Previous
Next >
Install
Cancel

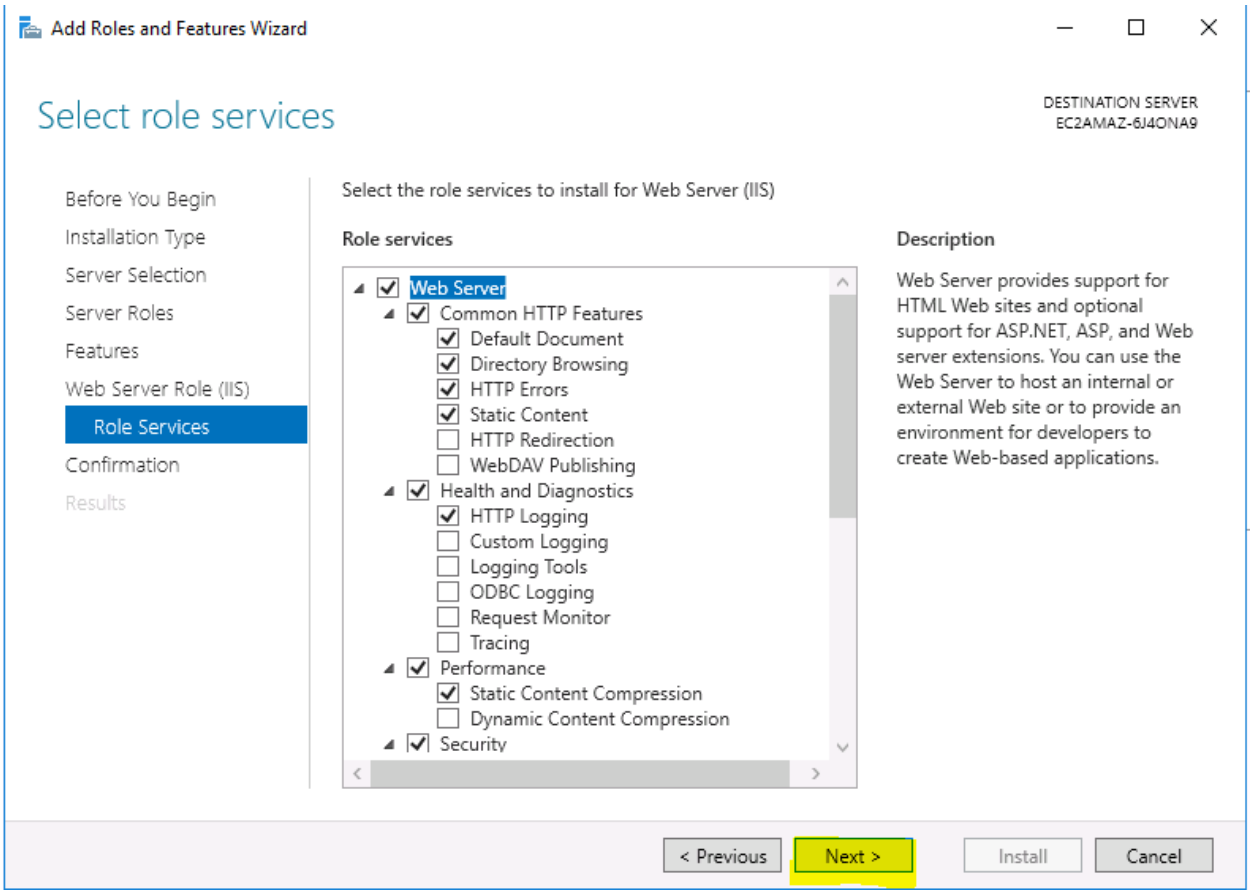
Click “Next”.


Add Roles and Features Wizard
Select features
DESTINATION SERVER
EC2AMAZ-6J4ONA9
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Select one or more features to install on the selected server.
Features
.NET Framework 3.5 Features
.NET Framework 4.6 Features (2 of 7 installed)
Background Intelligent Transfer Service (BITS)
BitLocker Drive Encryption
BitLocker Network Unlock
BranchCache
Client for NFS
Containers
Data Center Bridging
Direct Play
Enhanced Storage
Failover Clustering
Group Policy Management
Host Guardian Hyper-V Support
I/O Quality of Service
IIS Hostable Web Core
Internet Printing Client
IP Address Management (IPAM) Server
iSNS Server service
Description
.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.
< Previous
Next >
Install
Cancel

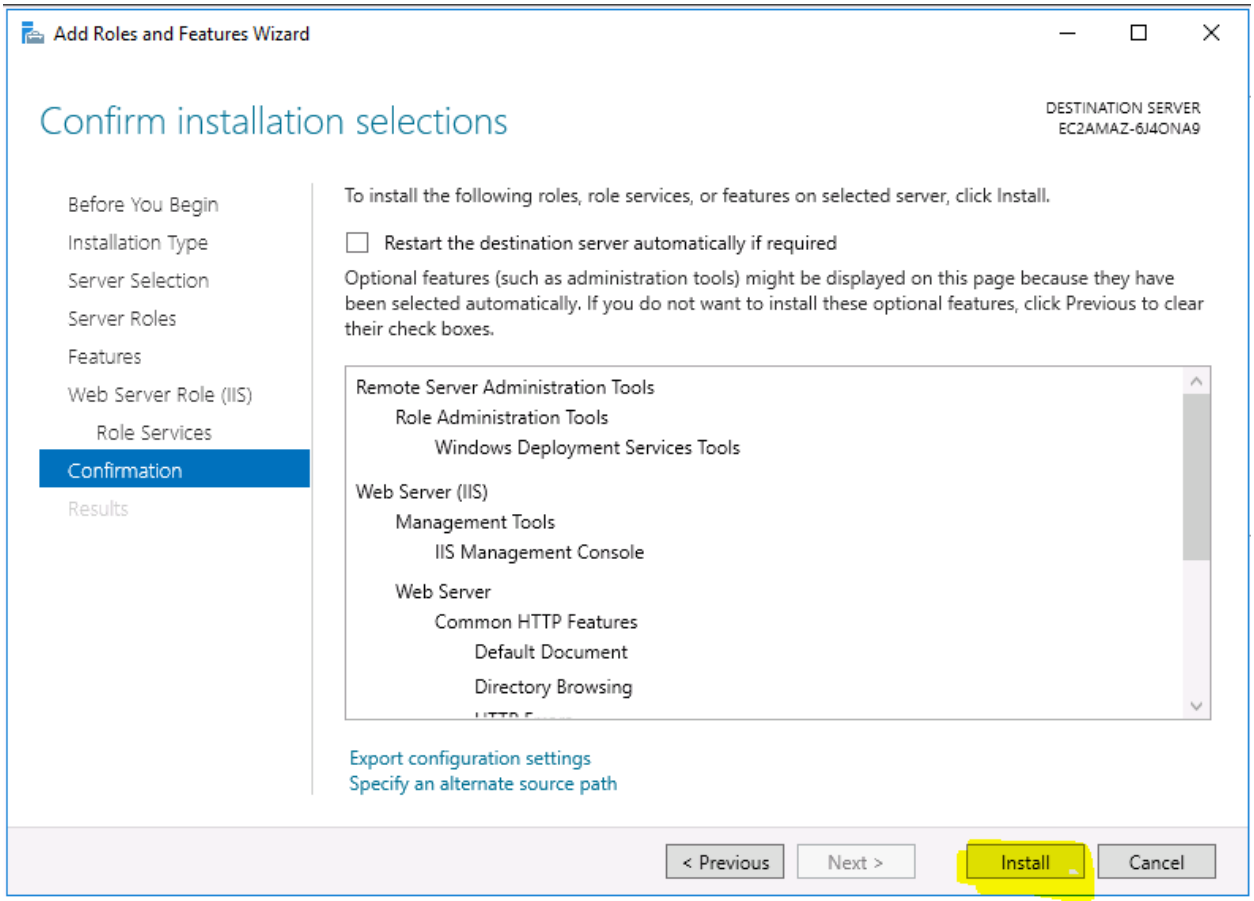
Click “Next”.


Add Roles and Features Wizard
Web Server Role (IIS)
DESTINATION SERVER
EC2AMAZ-6J4ONA9
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 10.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 10.0, ASP.NET, and Windows Communication Foundation.
The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.
More information about Web Server IIS
< Previous
Next >
Install
Cancel

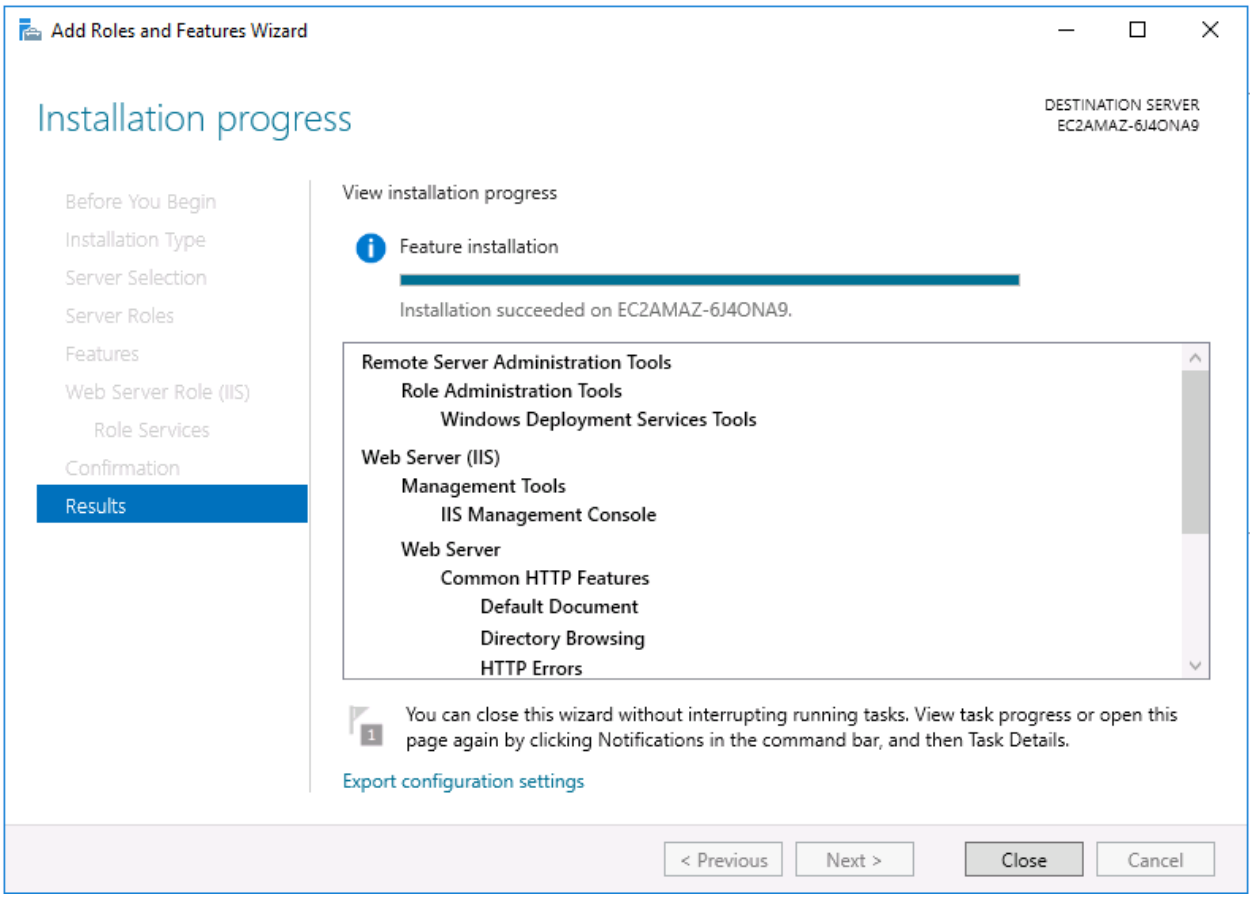
Click “Next”.


Add Roles and Features Wizard
Select role services
DESTINATION SERVER
EC2AMAZ-6J4ONA9
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
Select the role services to install for Web Server (IIS)
Role services
Web Server
Common HTTP Features
Default Document
Directory Browsing
HTTP Errors
Static Content
HTTP Redirection
WebDAV Publishing
Health and Diagnostics
HTTP Logging
Custom Logging
Logging Tools
ODBC Logging
Request Monitor
Tracing
Performance
Static Content Compression
Dynamic Content Compression
Security
Description
Web Server provides support for HTML Web sites and optional support for ASP.NET, ASP, and Web server extensions. You can use the Web Server to host an internal or external Web site or to provide an environment for developers to create Web-based applications.
< Previous
Next >
Install
Cancel

Click “Next”.

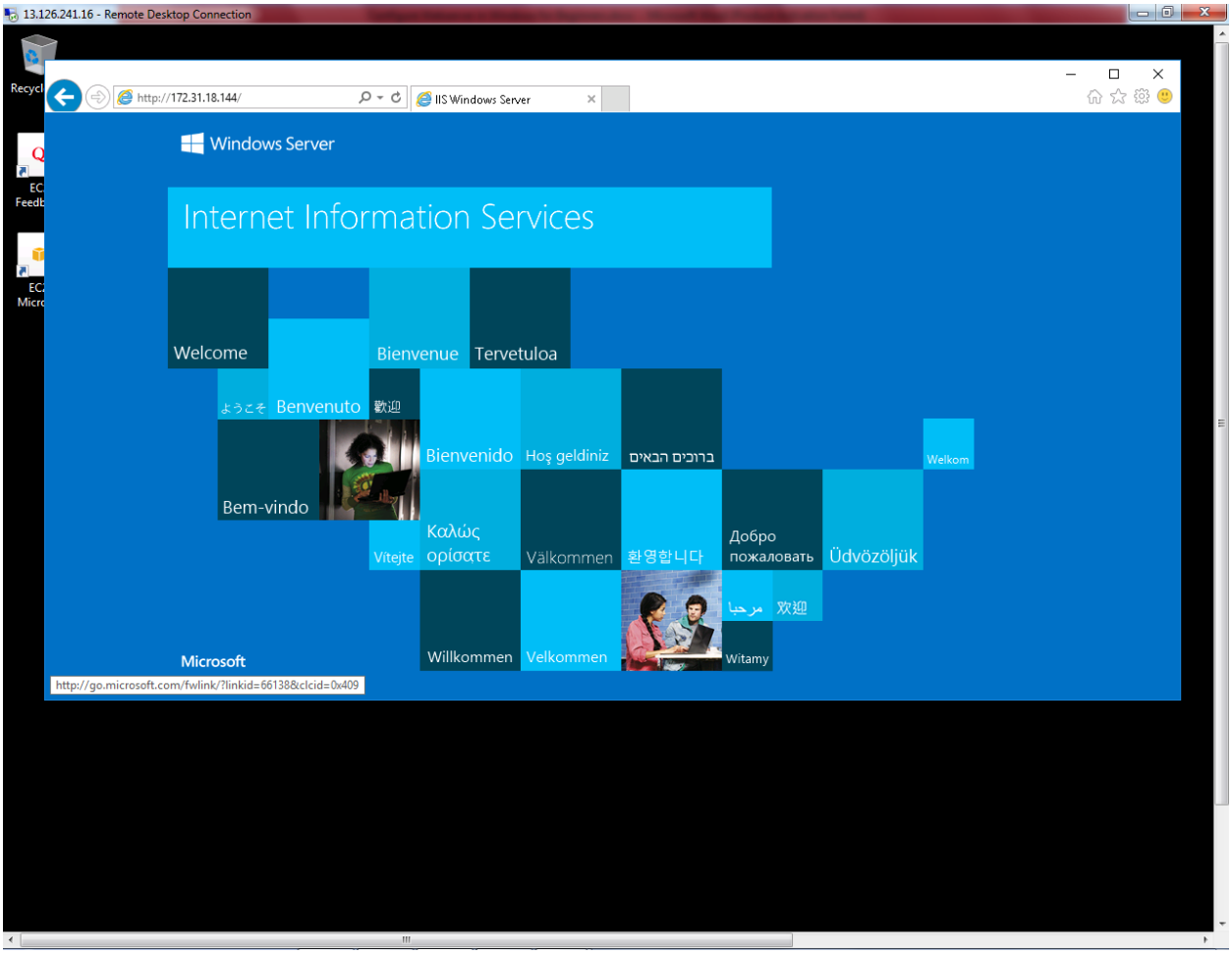


Click “Install”.



IIS application installed successfully, click close.

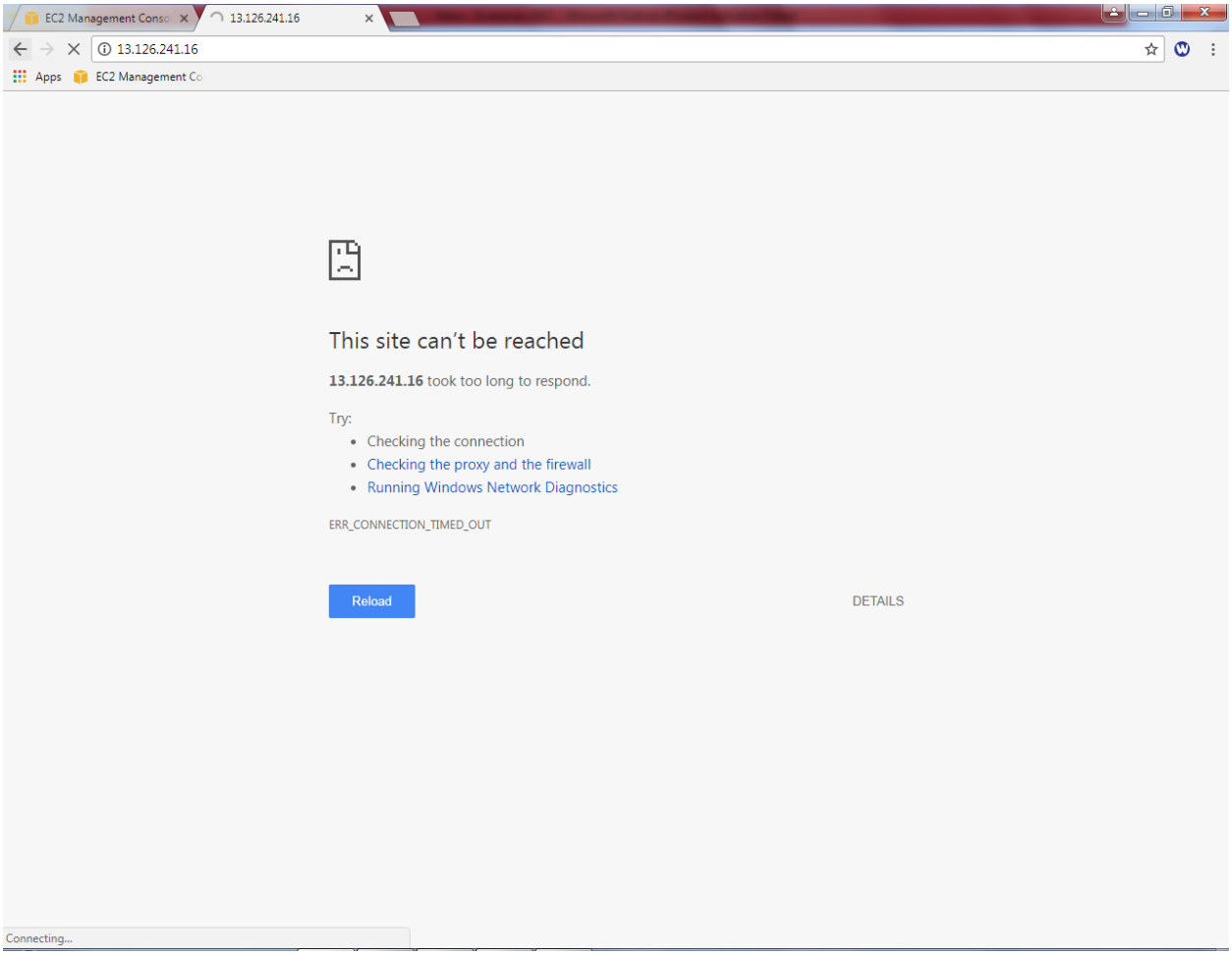
In Windows 2016 server, type the private IP address of the server http://172.31.18.144 in internet explorer to view the web server.



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.

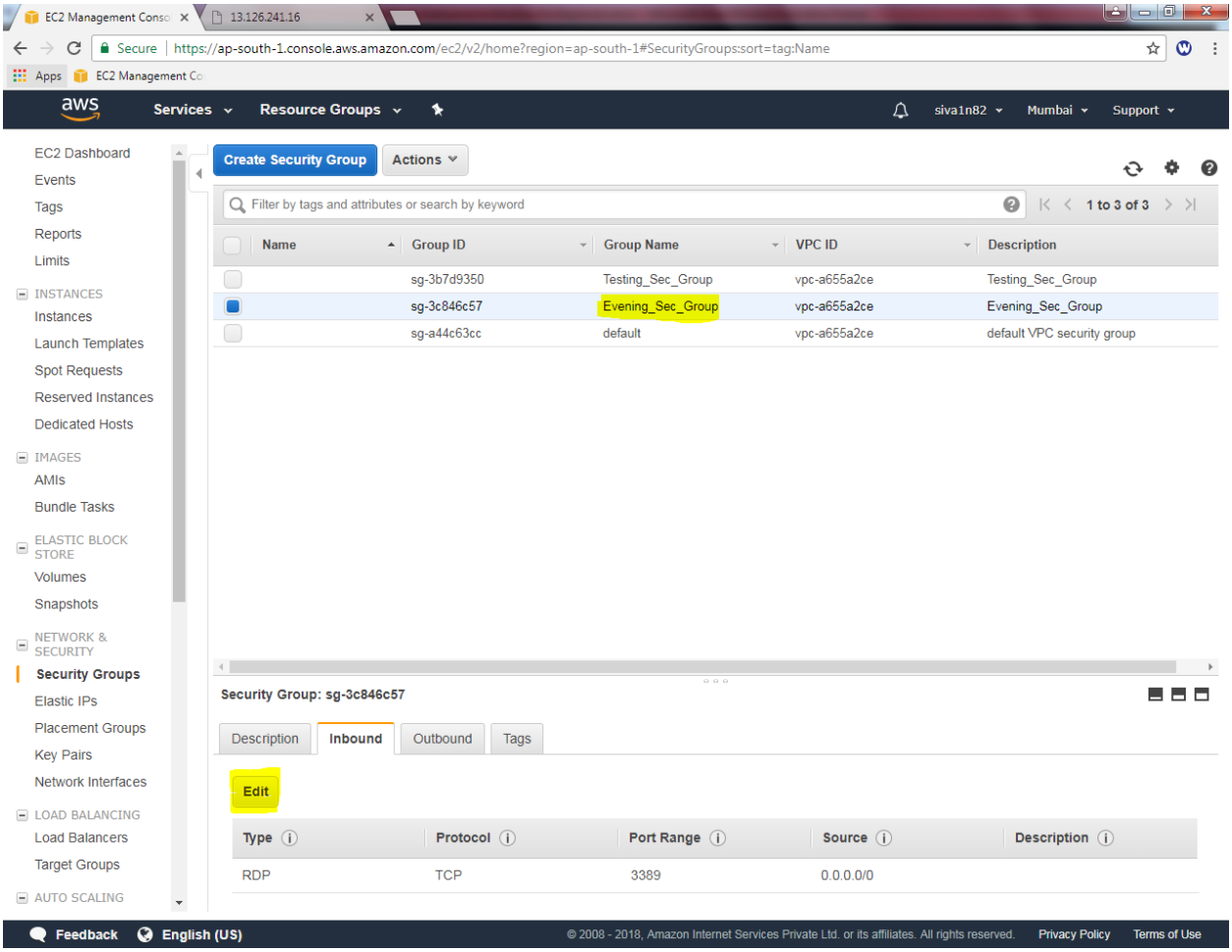
http://13.126.241.16.



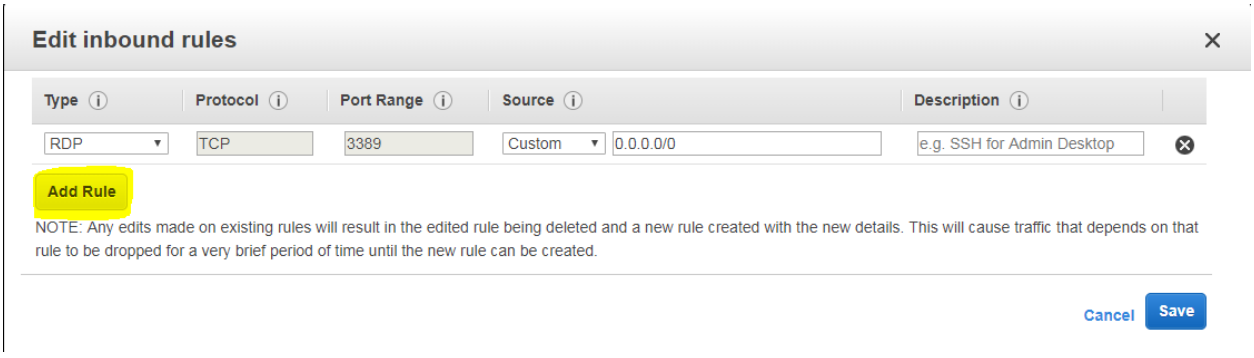
You would not be able to connect, what could be the reason?

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".

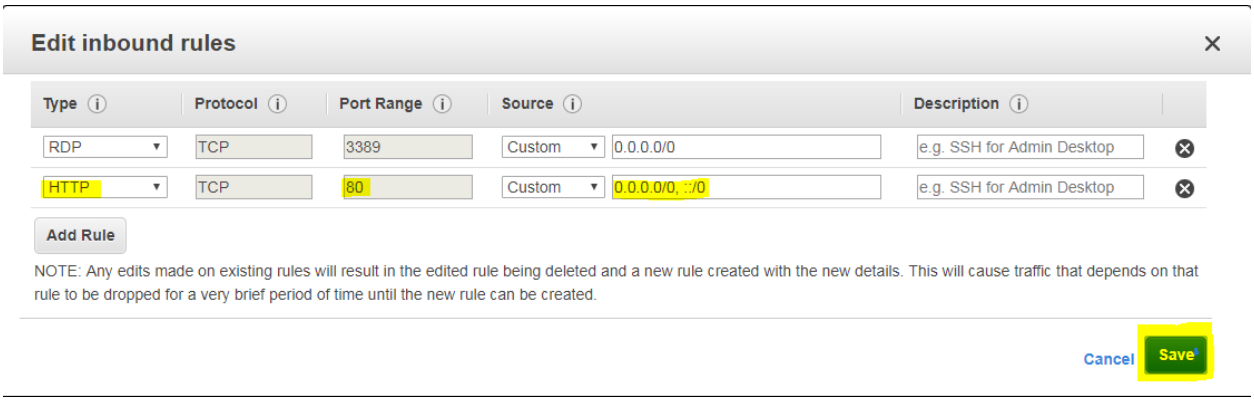
Goto EC2, click Security Groups and select "Evening_Sec_Group". Click on Inbound tab, then click "Edit" button.



Click “Add Rule”



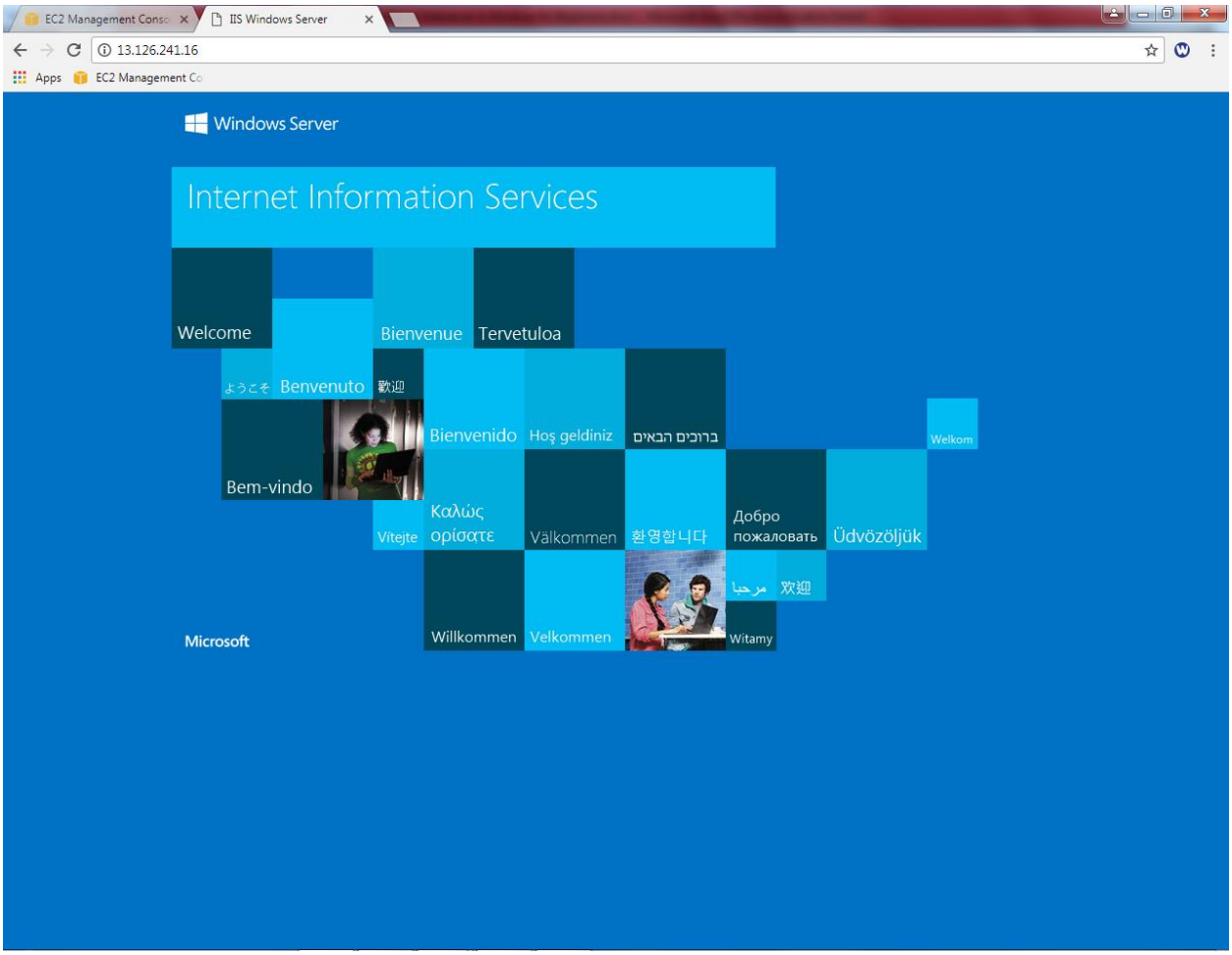
Select Type as “HTTP “ and Source as 0.0.0.0/0 (IPV4) and ::/0 (IPV6).



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.