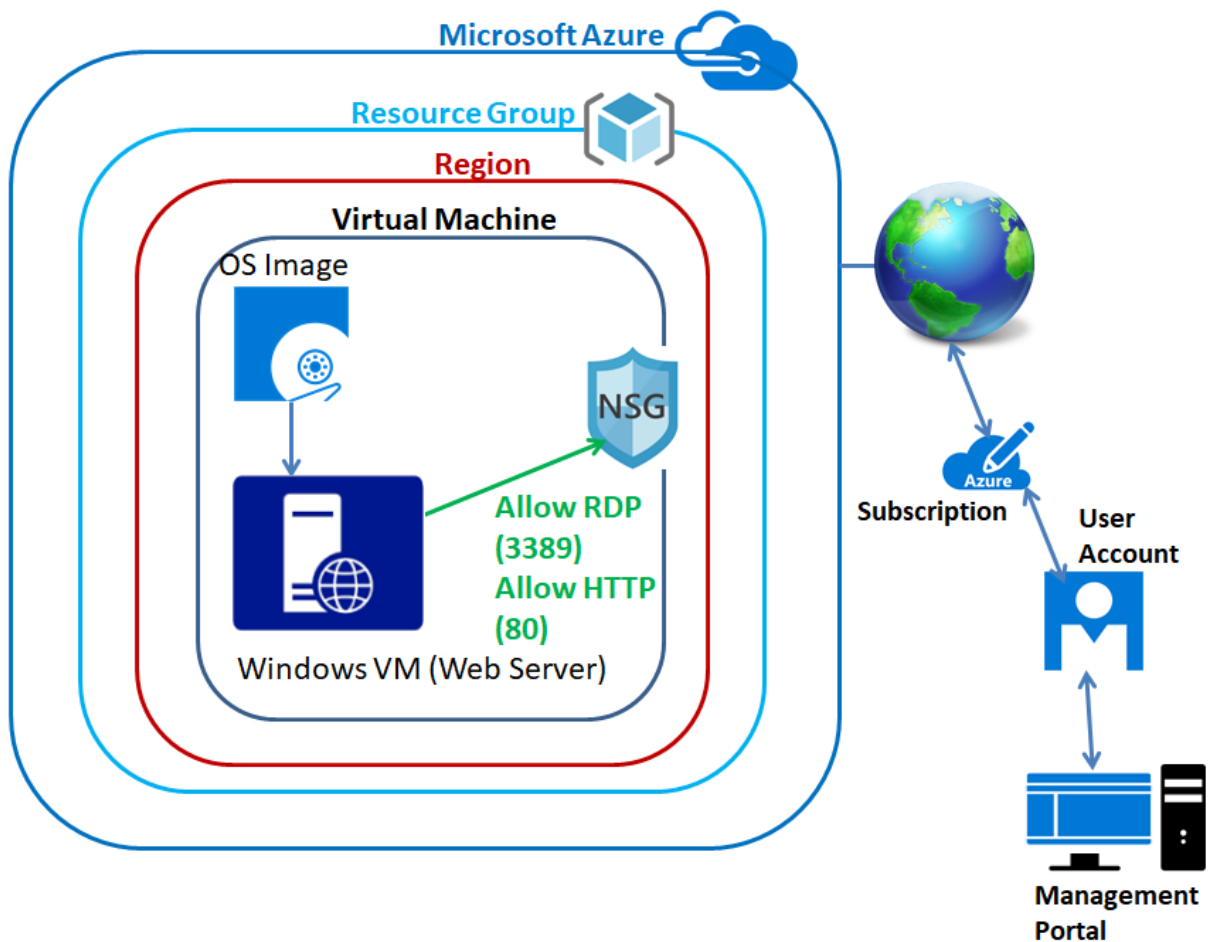
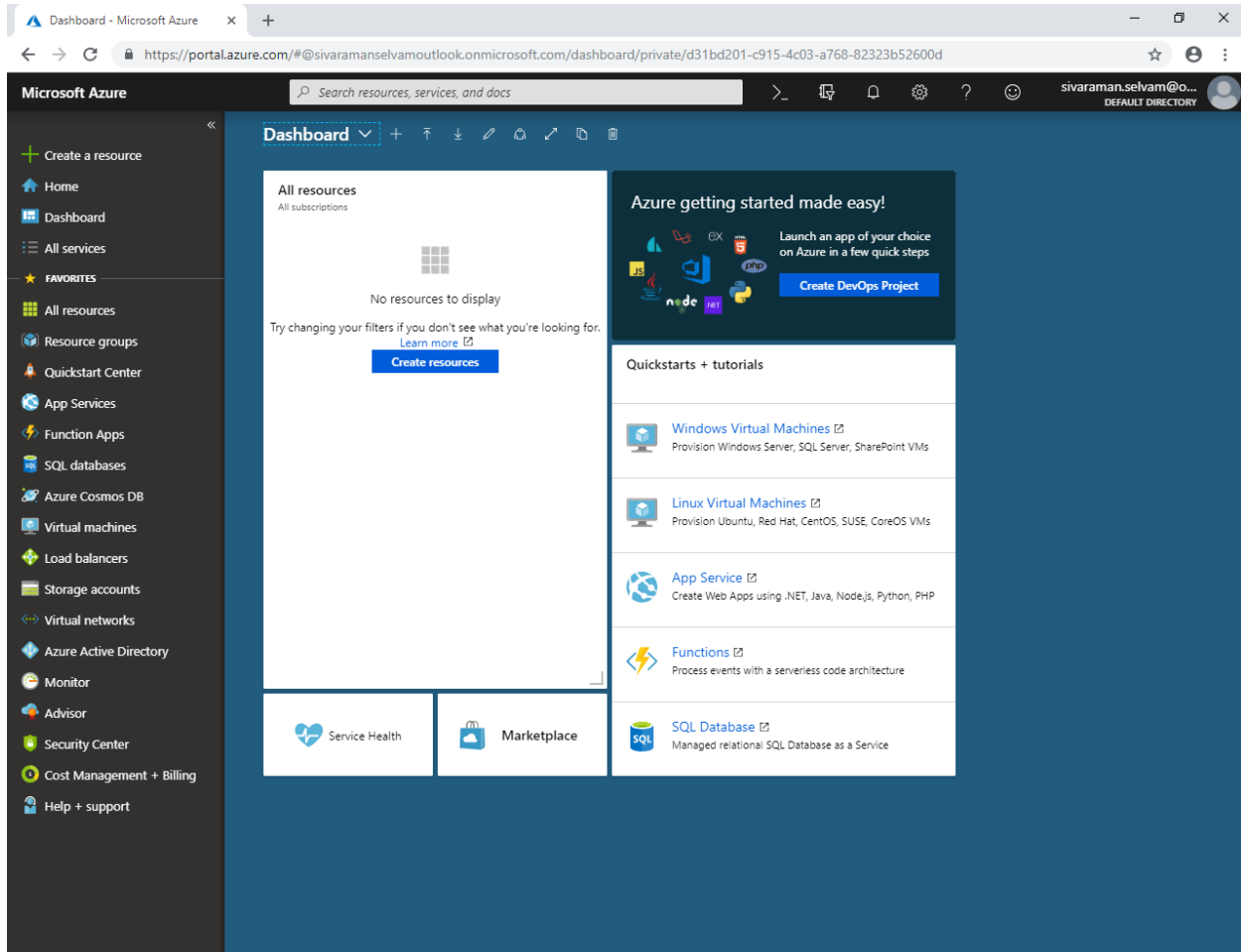


Lab3 – Installing IIS in Windows Virtual Machine - Azure

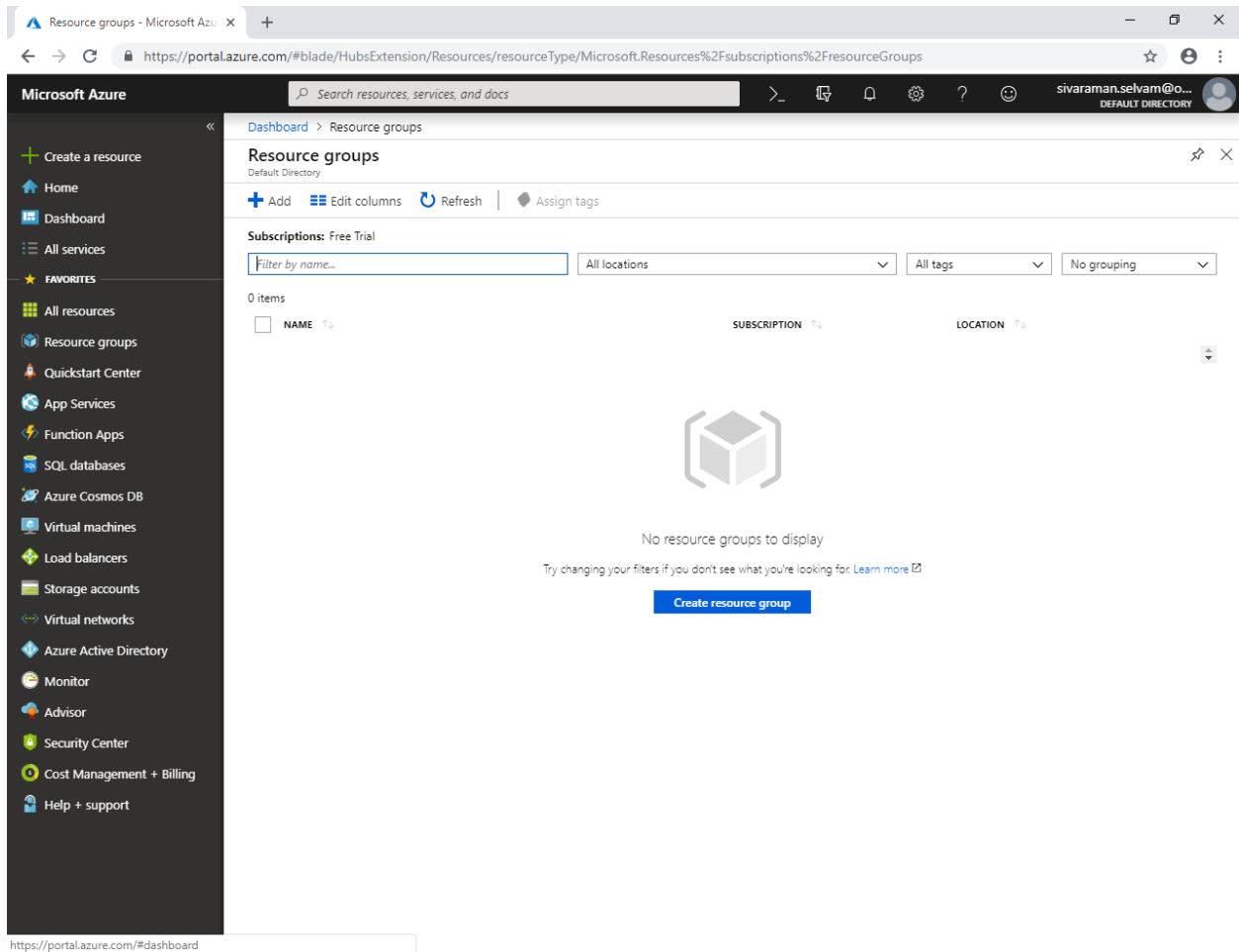
Topology



In Azure portal, click **“Resource Groups”**.



In “Resource Groups” click **“Add”**.



The screenshot displays the Microsoft Azure portal interface. The left sidebar contains navigation links for various Azure services. The main pane shows the 'Resource groups' section, which is currently empty. The interface includes a search bar at the top, a filter section for subscriptions and locations, and a table header with columns for NAME, SUBSCRIPTION, and LOCATION. A large message in the center indicates that no resource groups are currently displayed, with a link to learn more and a button to create a new resource group.

Microsoft Azure

Search resources, services, and docs

Dashboard > Resource groups

Resource groups

Default Directory

+ Add Edit columns Refresh Assign tags

Subscriptions: Free Trial

Filter by name... All locations All tags No grouping

0 items

NAME SUBSCRIPTION LOCATION

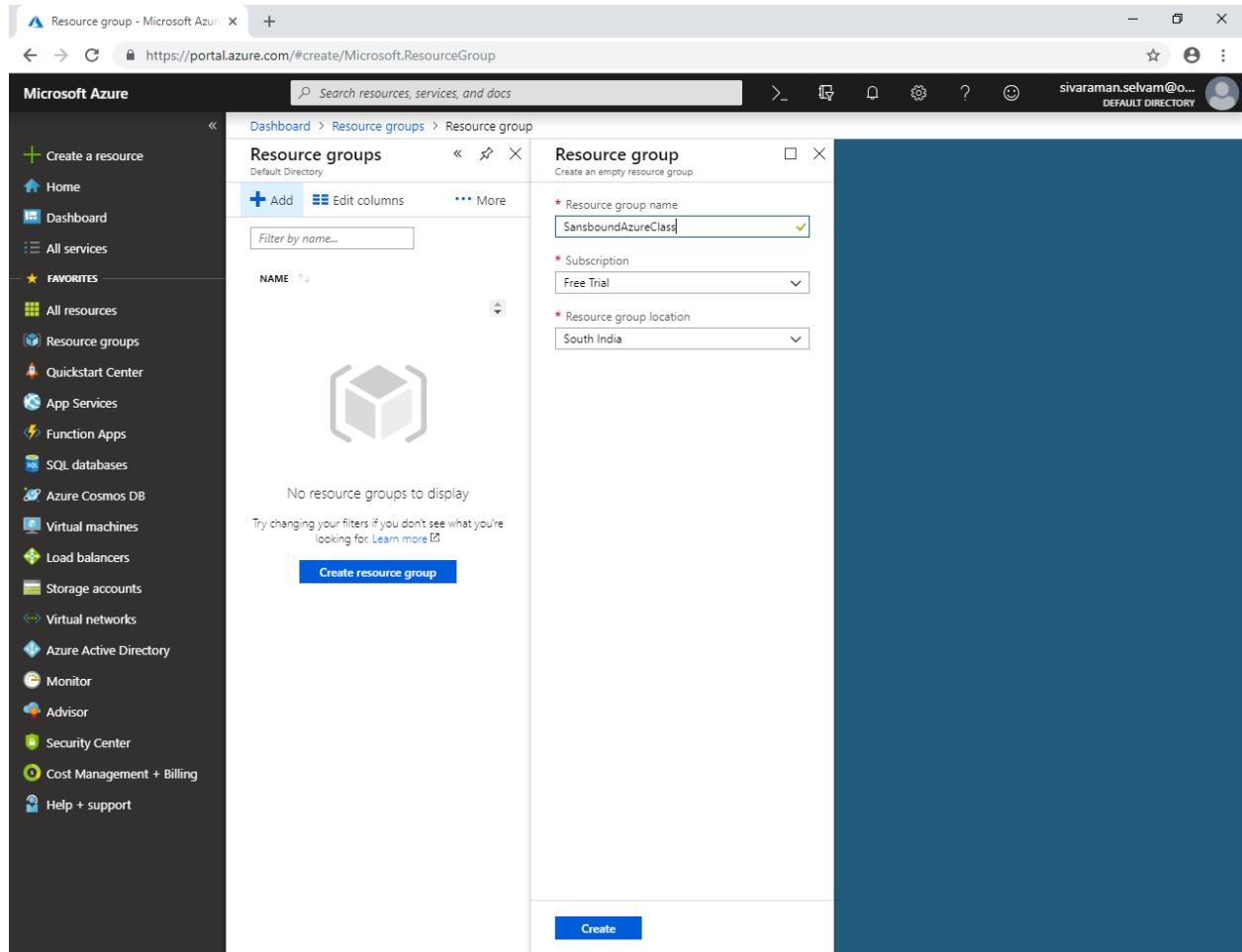
No resource groups to display

Try changing your filters if you don't see what you're looking for. [Learn more](#)

Create resource group

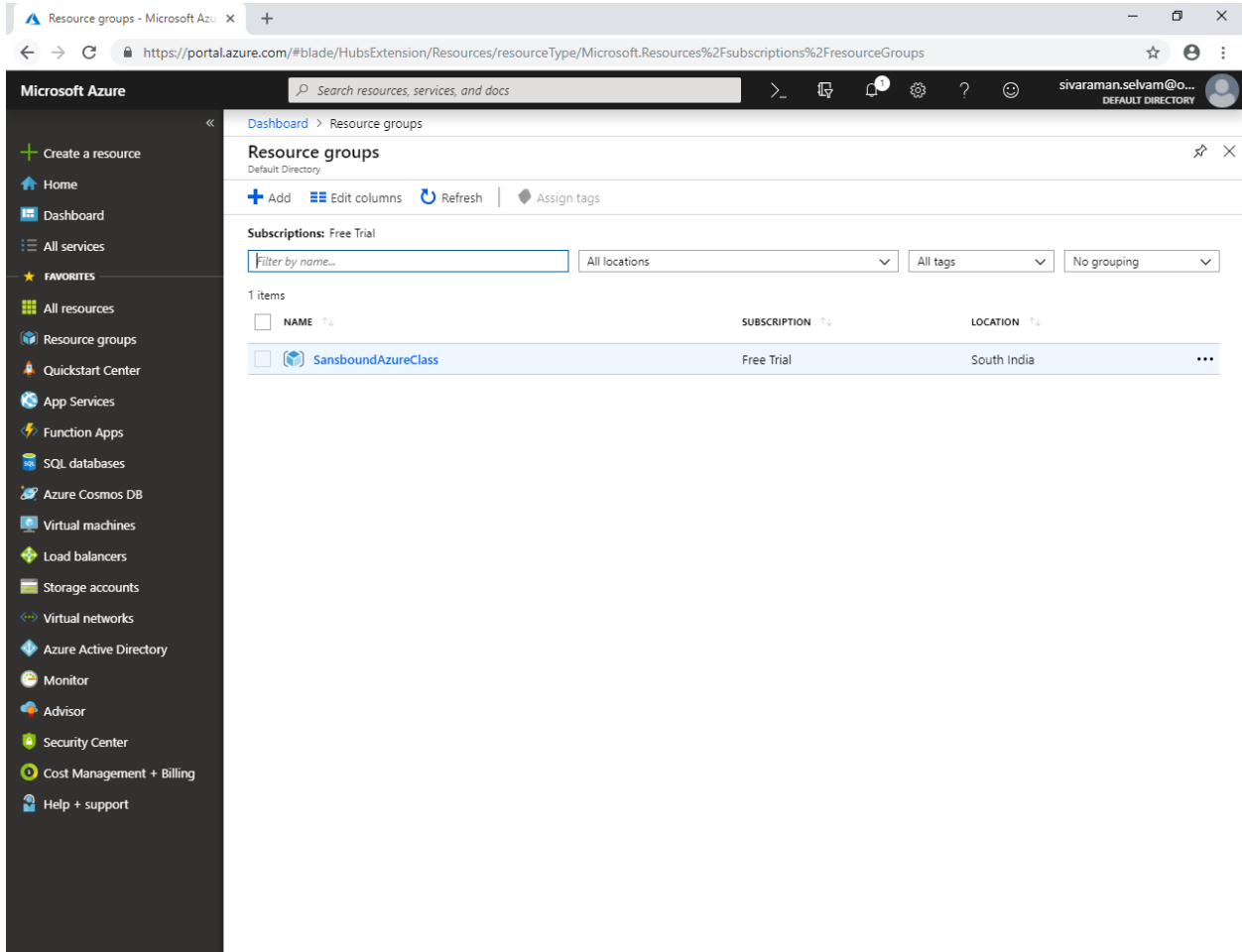
<https://portal.azure.com/#dashboard>

In “Resource Groups”, Type “**SansboundAzureClass**” as Resource group name.



Click “Refresh” to view Resource groups.

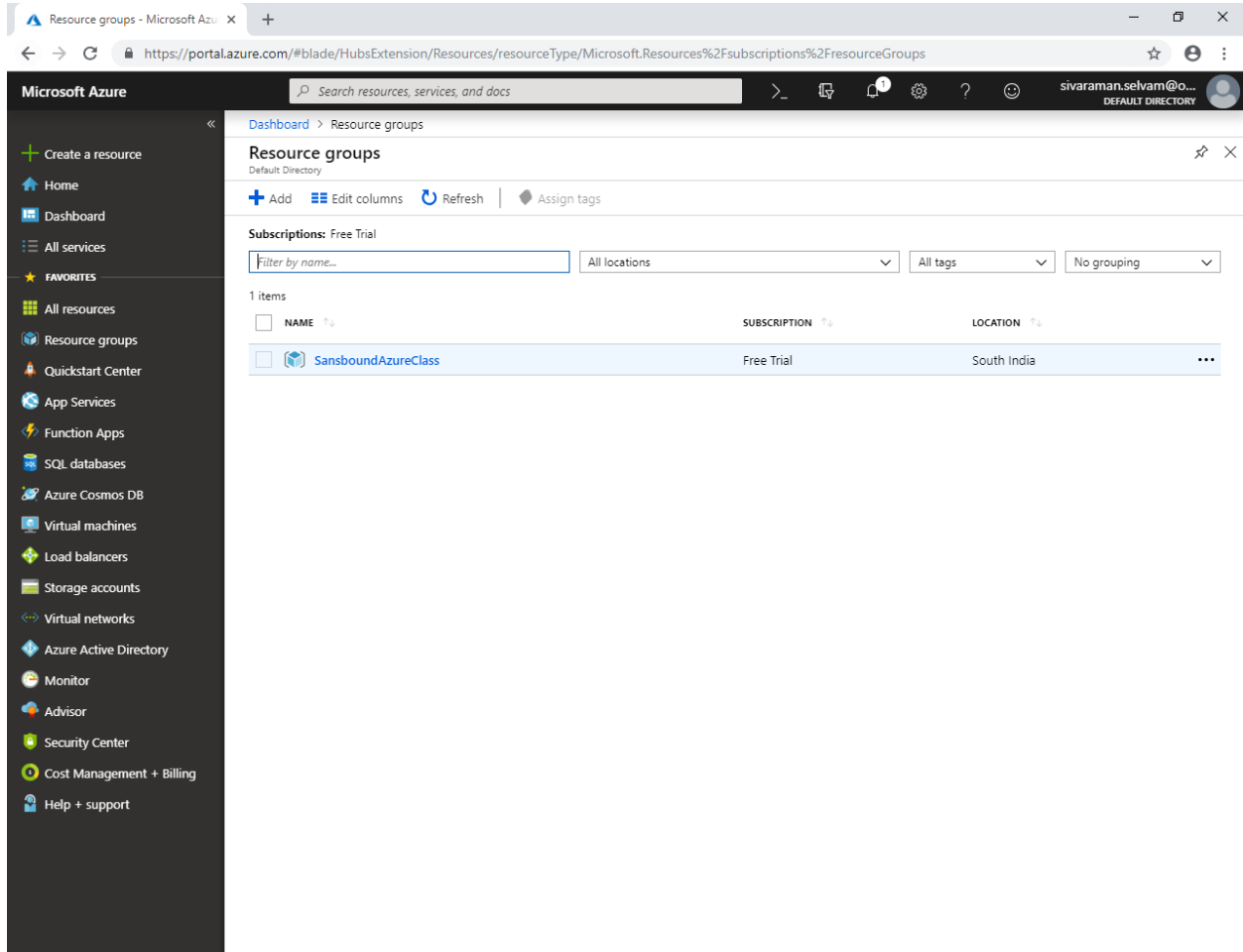
You are able to see that created “Resource Groups” named as **“SansboundAzureClass”**.



The screenshot shows the Microsoft Azure portal interface. The left sidebar contains navigation links for various services. The main content area is titled 'Resource groups' and shows a table with one item, 'SansboundAzureClass', under the 'Free Trial' subscription in the 'South India' location.

NAME	SUBSCRIPTION	LOCATION
SansboundAzureClass	Free Trial	South India

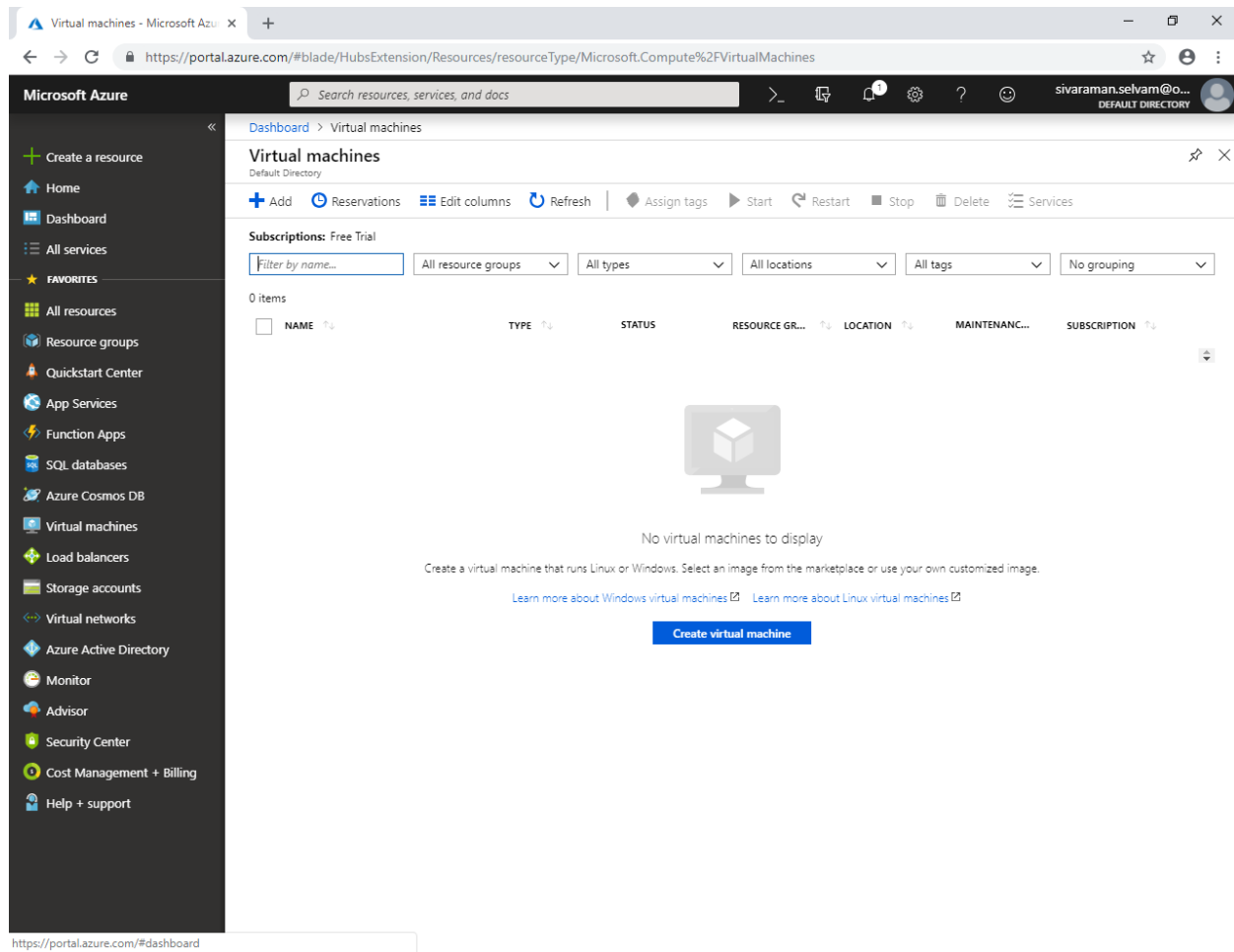
Click **“Virtual machines”** in left side panel.



The screenshot displays the Microsoft Azure portal interface. On the left, the navigation pane lists various services, with 'Virtual machines' selected. The main area shows the 'Resource groups' page for the 'Default Directory'. A table lists the resource groups, with one entry: 'SansboundAzureClass' under the 'Free Trial' subscription, located in 'South India'.

NAME	SUBSCRIPTION	LOCATION
SansboundAzureClass	Free Trial	South India

In “Virtual machines” click “Add”.



The screenshot shows the Microsoft Azure portal interface. The left-hand navigation pane is visible, with 'Virtual machines' selected under the 'FAVORITES' section. The main content area displays the 'Virtual machines' page, which is currently empty. The page header includes a search bar and the user's profile. The main content area shows a message: 'No virtual machines to display. Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.' Below this message is a blue button labeled 'Create virtual machine'.

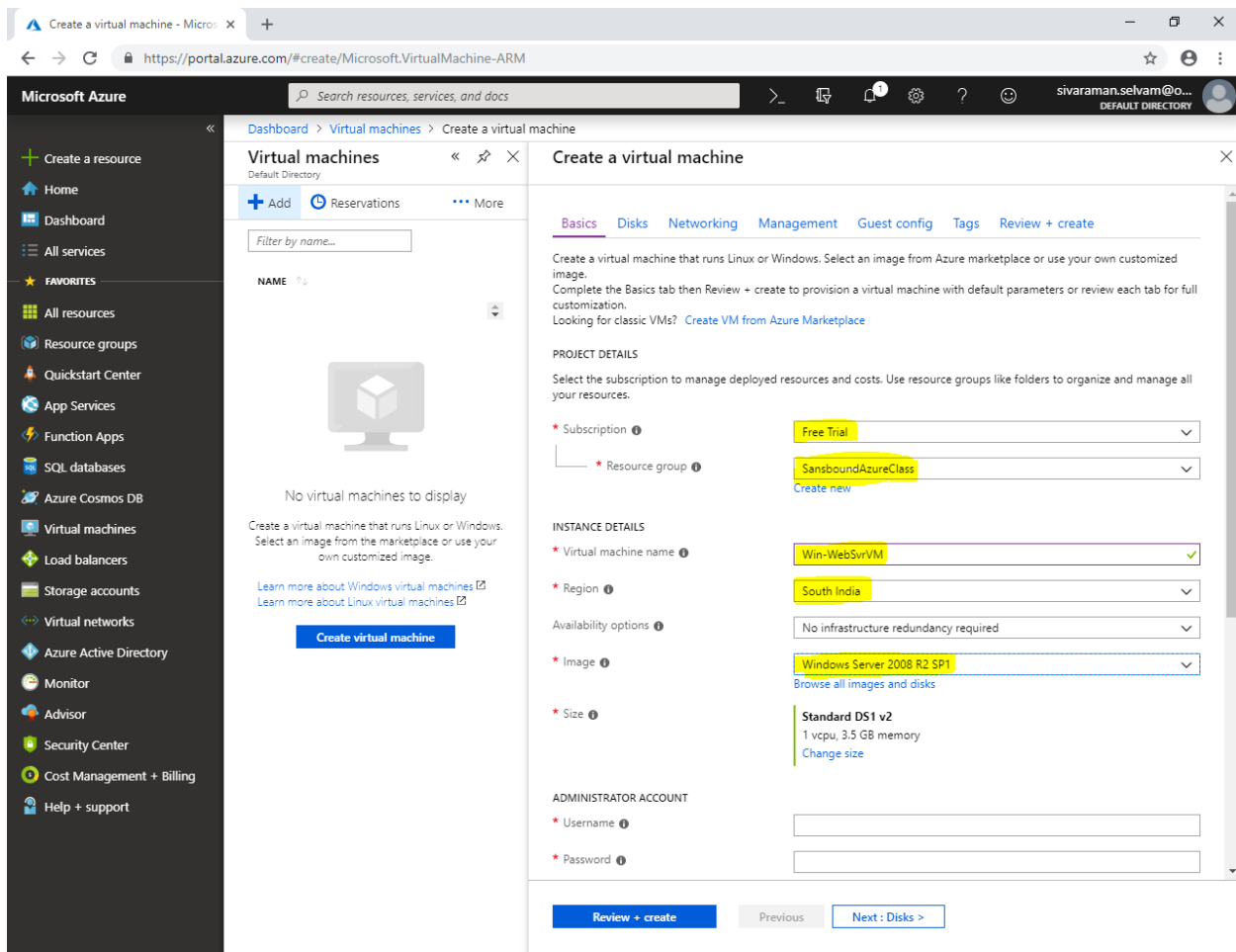
Select "Subscription"

Select "Resource Group" name as "SansboundAzureClass".

Type "Virtual machine name" as "Win-WebSvrVM".

Select "Region" as "South India".

Select OS Image "Windows Server 2008 R2 SP1".

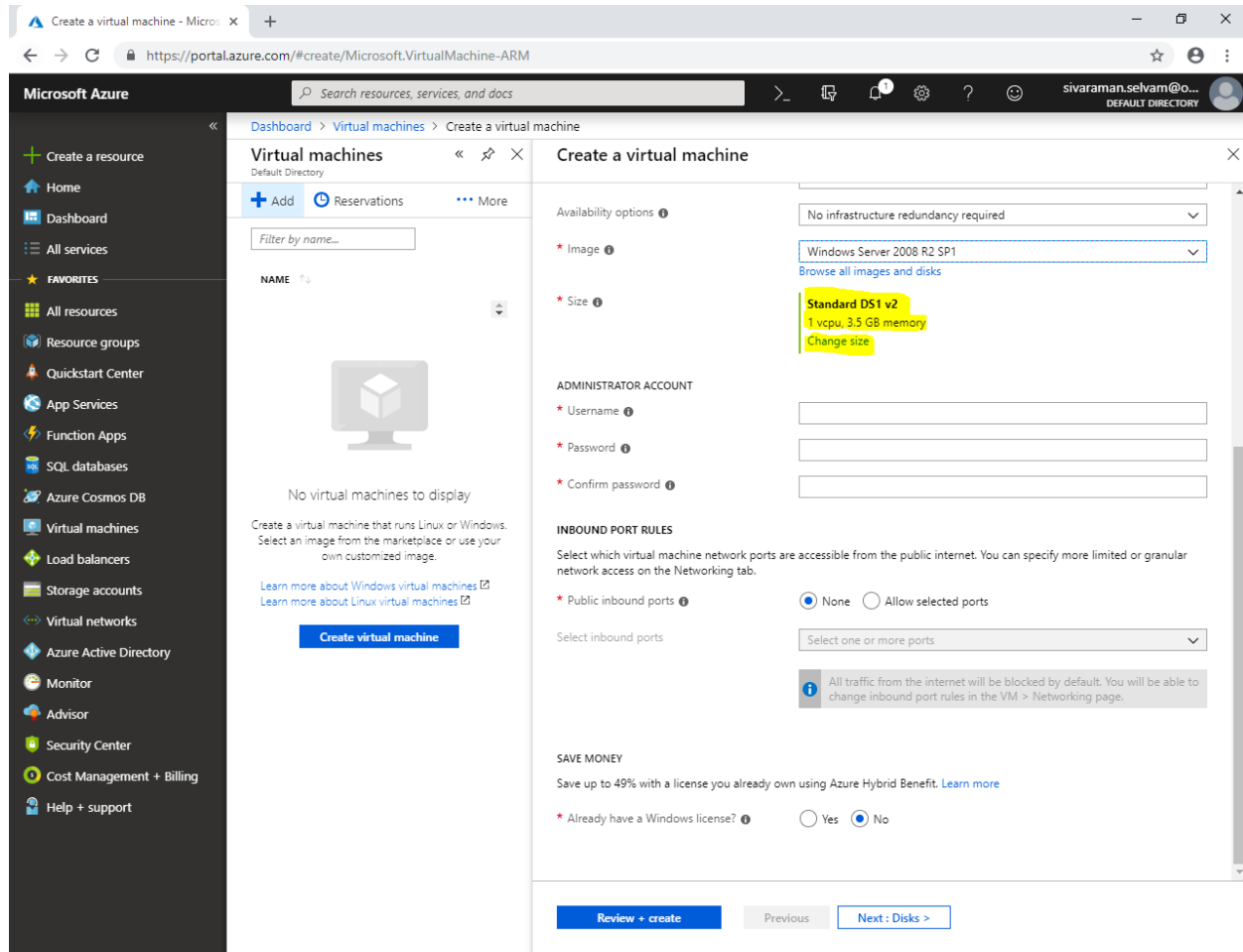


The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The 'Basics' tab is active, and the following configuration is shown:

- Subscription:** Free Trial
- Resource group:** SansboundAzureClass
- Virtual machine name:** Win-WebSvrVM
- Region:** South India
- Availability options:** No infrastructure redundancy required
- Image:** Windows Server 2008 R2 SP1
- Size:** Standard DS1 v2 (1 vcpu, 3.5 GB memory)
- Administrator account:** Username and Password fields are empty.

The 'Review + create' button is located at the bottom right of the form.

By default VM Size is as **“Standard DS1 v2”** and 1 vCPU and 3.5 GB memory. You should change the VM Size by click **“Change Size”**.



Create a virtual machine - Micros X

https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs

sivaraman.selvam@o...
DEFAULT DIRECTORY

Dashboard > Virtual machines > Create a virtual machine

Virtual machines
Default Directory

+ Add Reservations ... More

Filter by name...

NAME ↕

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

[Learn more about Windows virtual machines](#) [Learn more about Linux virtual machines](#)

Create virtual machine

Create a virtual machine

Availability options No infrastructure redundancy required

* Image Windows Server 2008 R2 SP1
[Browse all images and disks](#)

* Size **Standard DS1 v2**
1 vcpu, 3.5 GB memory
[Change size](#)

ADMINISTRATOR ACCOUNT

* Username

* Password

* Confirm password

INBOUND PORT RULES

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

* Public inbound ports ☒ None ☐ Allow selected ports

Select inbound ports Select one or more ports

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

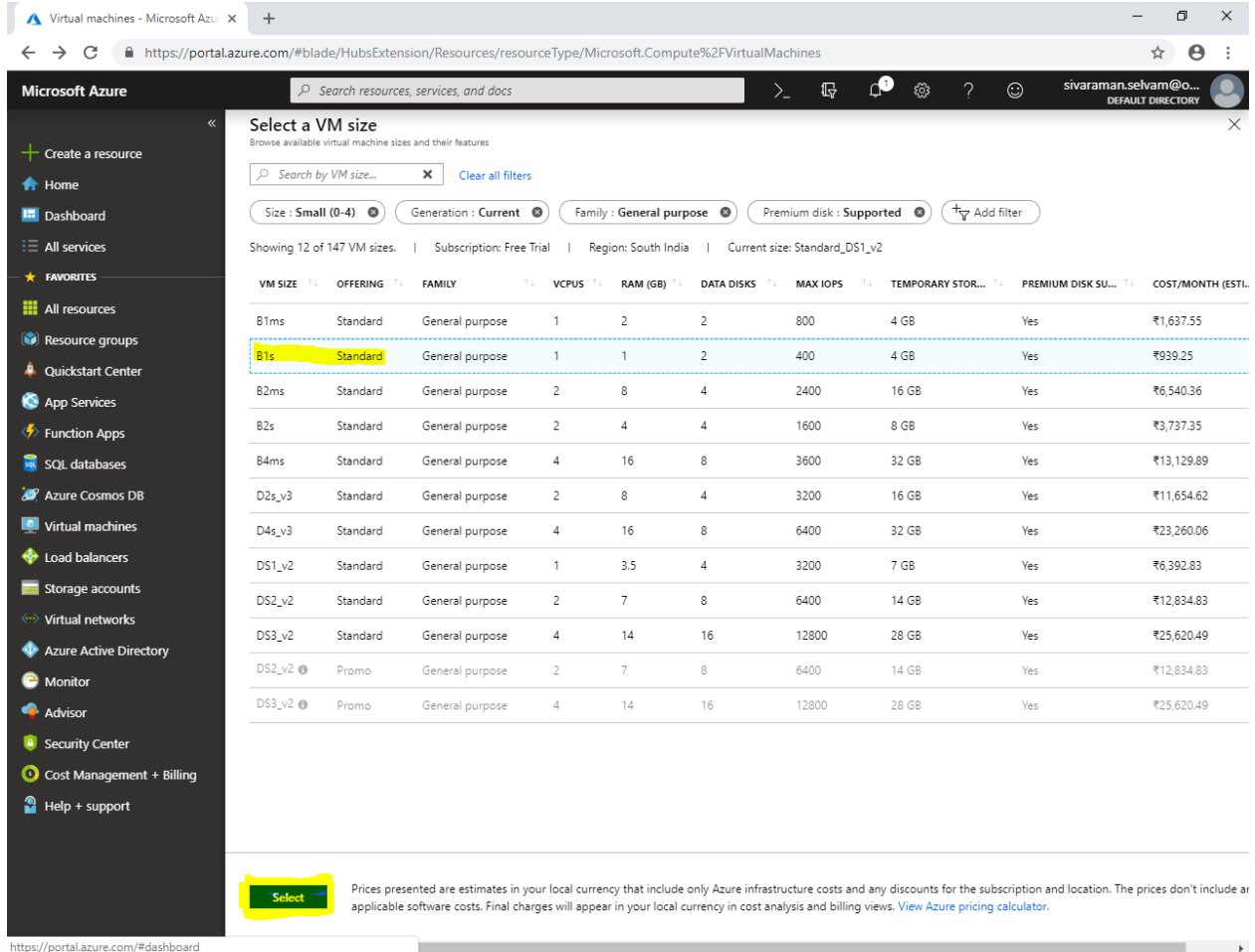
SAVE MONEY

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

* Already have a Windows license? ☐ Yes ☒ No

Review + create Previous Next : Disks >

In “VM Size” click on “B1s - Standard” and click “Select”.



Virtual machines - Microsoft Azure

Search resources, services, and docs

Microsoft Azure

Create a resource

Home

Dashboard

All services

FAVORITES

All resources

Resource groups

Quickstart Center

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + Billing

Help + support

Select a VM size

Browse available virtual machine sizes and their features

Search by VM size... Clear all filters

Size: Small (0-4) Generation: Current Family: General purpose Premium disk: Supported Add filter

Showing 12 of 147 VM sizes. | Subscription: Free Trial | Region: South India | Current size: Standard_DS1_v2

VM SIZE	OFFERING	FAMILY	VCPUS	RAM (GB)	DATA DISKS	MAX IOPS	TEMPORARY STOR...	PREMIUM DISK SU...	COST/MONTH (ESTI...
B1ms	Standard	General purpose	1	2	2	800	4 GB	Yes	₹1,637.55
B1s	Standard	General purpose	1	1	2	400	4 GB	Yes	₹939.25
B2ms	Standard	General purpose	2	8	4	2400	16 GB	Yes	₹6,540.36
B2s	Standard	General purpose	2	4	4	1600	8 GB	Yes	₹3,737.35
B4ms	Standard	General purpose	4	16	8	3600	32 GB	Yes	₹13,129.89
D2s_v3	Standard	General purpose	2	8	4	3200	16 GB	Yes	₹11,654.62
D4s_v3	Standard	General purpose	4	16	8	6400	32 GB	Yes	₹23,260.06
DS1_v2	Standard	General purpose	1	3.5	4	3200	7 GB	Yes	₹6,392.83
DS2_v2	Standard	General purpose	2	7	8	6400	14 GB	Yes	₹12,834.83
DS3_v2	Standard	General purpose	4	14	16	12800	28 GB	Yes	₹25,620.49
DS2_v2	Promo	General purpose	2	7	8	6400	14 GB	Yes	₹12,834.83
DS3_v2	Promo	General purpose	4	14	16	12800	28 GB	Yes	₹25,620.49

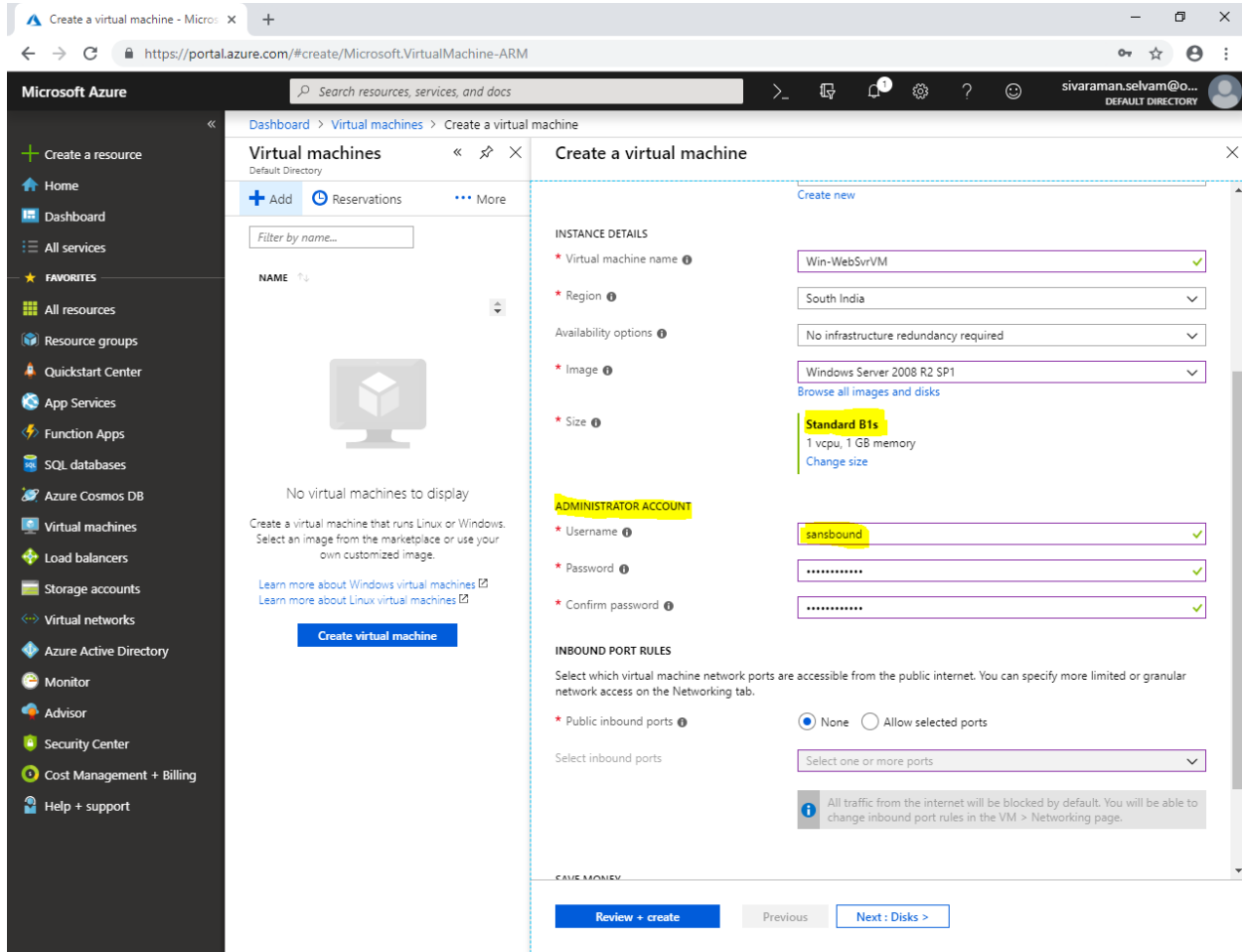
Select

Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. [View Azure pricing calculator.](#)

https://portal.azure.com/#dashboard

Ensure that **“Standard B1s”** VM Size is selected.

In **“Administrator Account”** type username as **“sansbound”** and type your own password.



Microsoft Azure

Create a virtual machine - Micro: X

https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Dashboard > Virtual machines > Create a virtual machine

Virtual machines

Filter by name...

NAME

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

Learn more about Windows virtual machines

Learn more about Linux virtual machines

Create virtual machine

Create a virtual machine

INSTANCE DETAILS

* Virtual machine name Win-WebSvrVM

* Region South India

Availability options No infrastructure redundancy required

* Image Windows Server 2008 R2 SP1

Browse all images and disks

* Size Standard B1s

1 vcpu, 1 GB memory

Change size

ADMINISTRATOR ACCOUNT

* Username sansbound

* Password

* Confirm password

INBOUND PORT RULES

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

* Public inbound ports None

Select inbound ports Select one or more ports

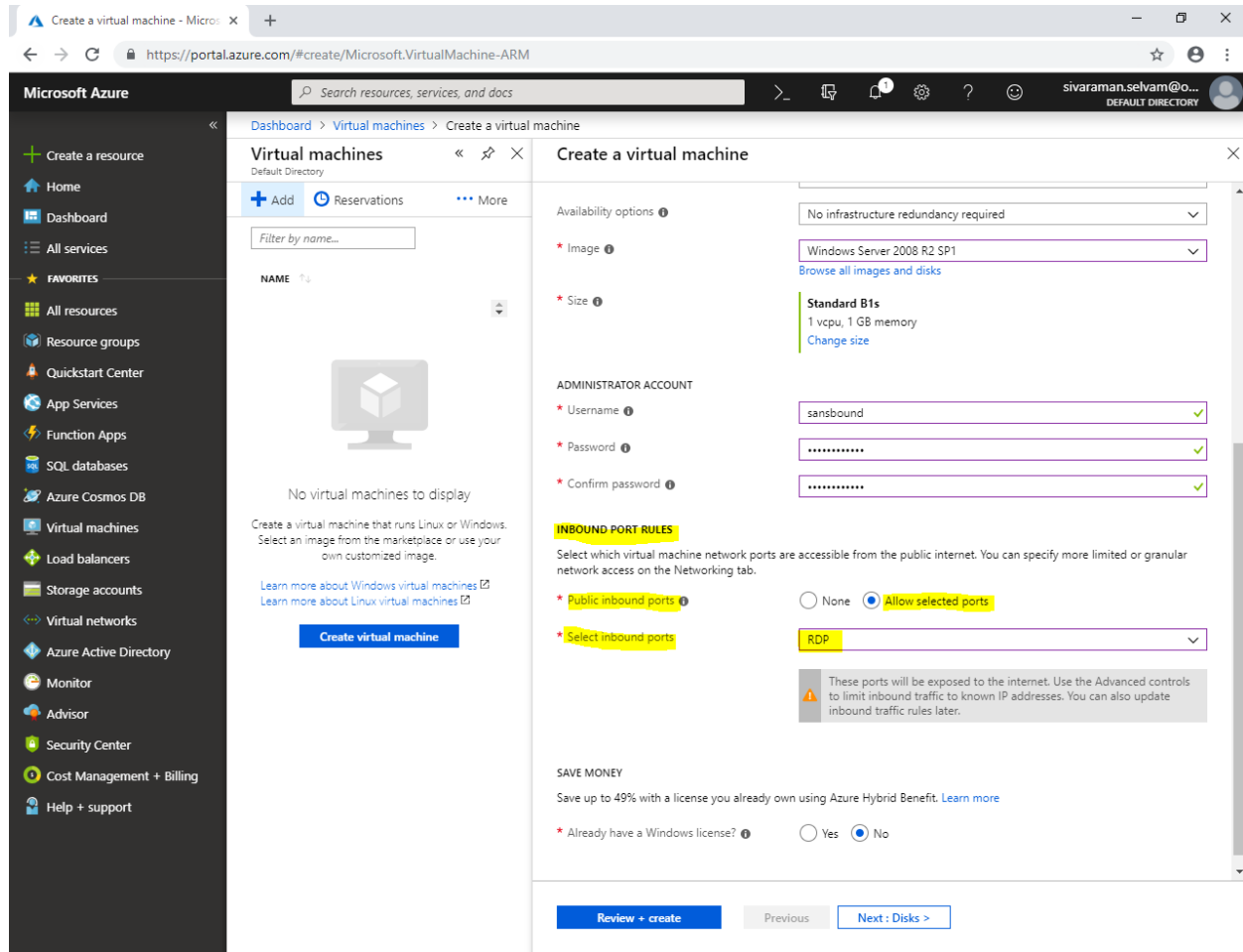
All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

Review + create Previous Next: Disks >

In “Inbound Port Rules”

In “Public inbound ports” click **“Allow selected ports”**.

In “Select inbound ports” select **“RDP (3389)”** from the drop down list.



Microsoft Azure

Create a virtual machine - Micros X

https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Dashboard > Virtual machines > Create a virtual machine

Virtual machines

Filter by name...

NAME

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

Learn more about Windows virtual machines

Learn more about Linux virtual machines

Create virtual machine

Create a virtual machine

Availability options

No infrastructure redundancy required

* Image

Windows Server 2008 R2 SP1

Browse all images and disks

* Size

Standard B1s

1 vcpu, 1 GB memory

Change size

ADMINISTRATOR ACCOUNT

* Username

sansbound

* Password

* Confirm password

INBOUND PORT RULES

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

* Public inbound ports

☐ None ☒ Allow selected ports

* Select inbound ports

RDP

These ports will be exposed to the internet. Use the Advanced controls to limit inbound traffic to known IP addresses. You can also update inbound traffic rules later.

SAVE MONEY

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

* Already have a Windows license?

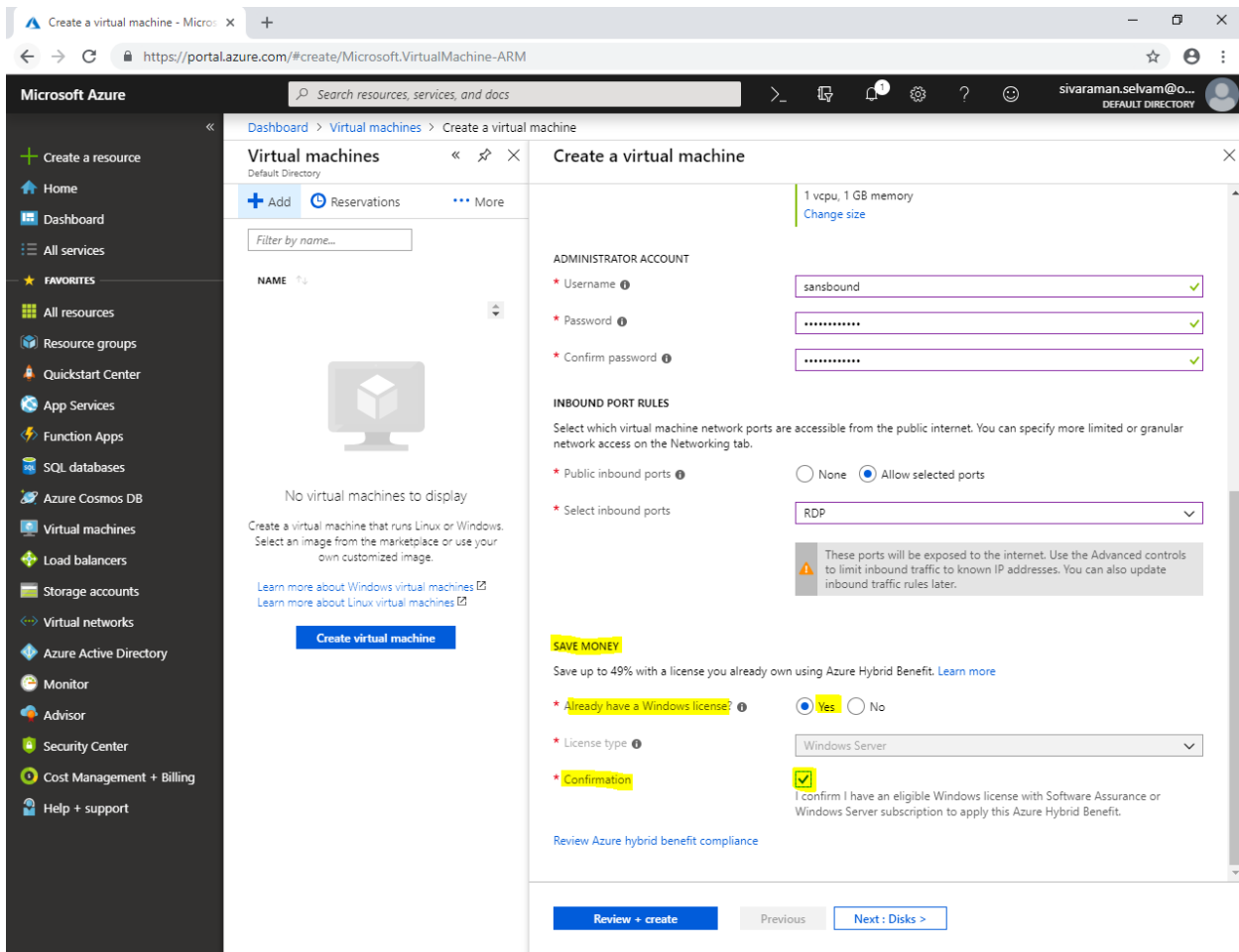
☐ Yes ☒ No

Review + create Previous Next : Disks >

In “Save Money”,

Always have a Windows license as “Yes”.

Check the “Confirmation” box.



Microsoft Azure

Create a virtual machine - Micro

https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Search resources, services, and docs

sivaraman.selvam@o...
DEFAULT DIRECTORY

Dashboard > Virtual machines > Create a virtual machine

Virtual machines
Default Directory

+ Add Reservations ... More

Filter by name...

NAME

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

Learn more about Windows virtual machines
Learn more about Linux virtual machines

Create virtual machine

Create a virtual machine

1 vcpu, 1 GB memory
Change size

ADMINISTRATOR ACCOUNT

* Username sansbound ✓

* Password ✓

* Confirm password ✓

INBOUND PORT RULES

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

* Public inbound ports ☐ None ☒ Allow selected ports

* Select inbound ports RDP

These ports will be exposed to the internet. Use the Advanced controls to limit inbound traffic to known IP addresses. You can also update inbound traffic rules later.

SAVE MONEY

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

* Already have a Windows license ☒ Yes ☐ No

* License type Windows Server

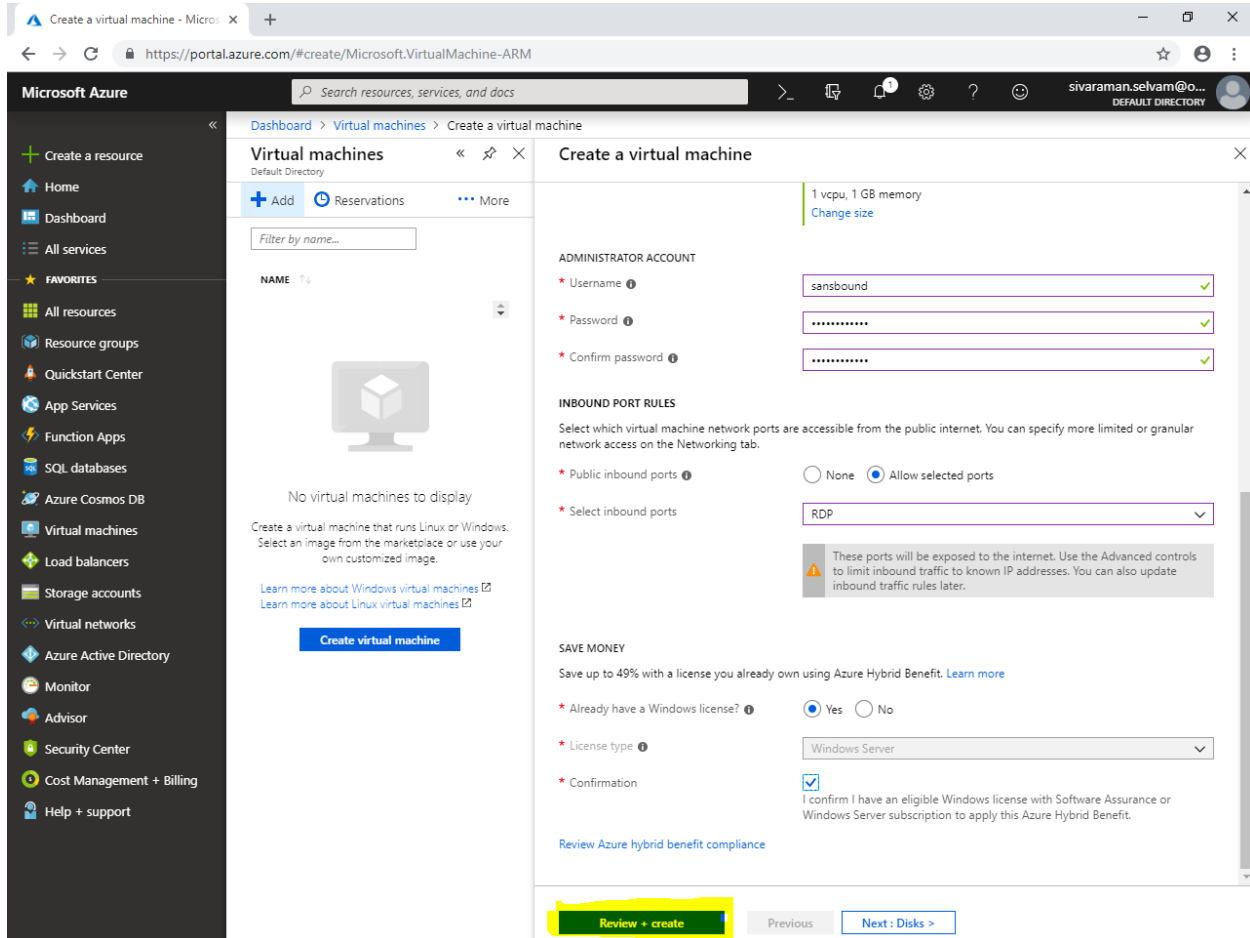
* Confirmation ☒

I confirm I have an eligible Windows license with Software Assurance or Windows Server subscription to apply this Azure Hybrid Benefit.

[Review Azure hybrid benefit compliance](#)

Review + create Previous Next: Disks >

Then click **“Review + Create”**.



Create a virtual machine - Microsoft

https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs

sivaraman.selvam@o...
DEFAULT DIRECTORY

Dashboard > Virtual machines > Create a virtual machine

Virtual machines

+ Add Reservations More

Filter by name...

NAME

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

[Learn more about Windows virtual machines](#)

[Learn more about Linux virtual machines](#)

Create virtual machine

Create a virtual machine

1 vcpu, 1 GB memory
[Change size](#)

ADMINISTRATOR ACCOUNT

* Username sansbound ✓

* Password ✓

* Confirm password ✓

INBOUND PORT RULES

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

* Public inbound ports ☐ None ☒ Allow selected ports

* Select inbound ports RDP

These ports will be exposed to the internet. Use the Advanced controls to limit inbound traffic to known IP addresses. You can also update inbound traffic rules later.

SAVE MONEY

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

* Already have a Windows license? ☒ Yes ☐ No

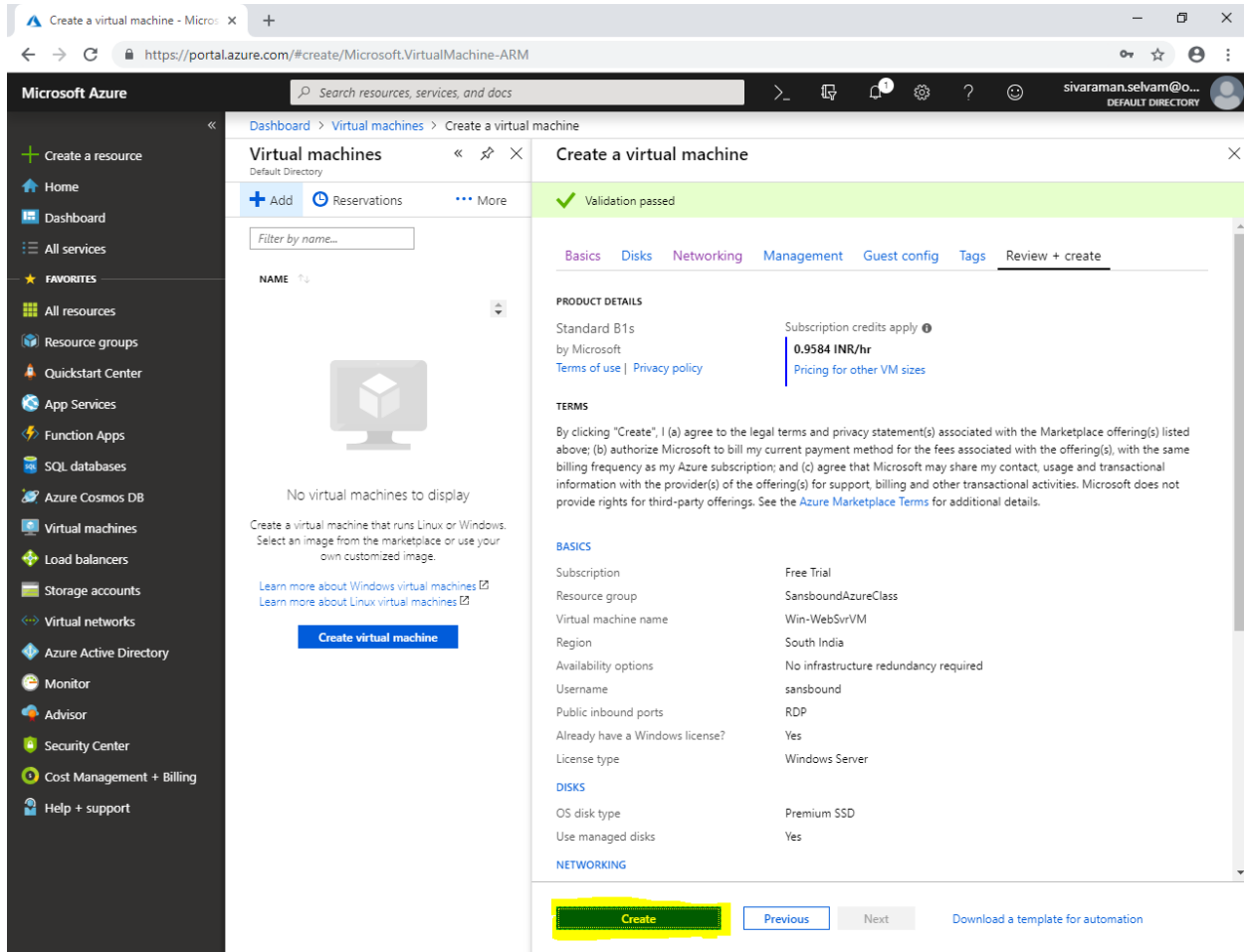
* License type Windows Server

* Confirmation ☒
I confirm I have an eligible Windows license with Software Assurance or Windows Server subscription to apply this Azure Hybrid Benefit.

[Review Azure hybrid benefit compliance](#)

Review + create Previous Next: Disks >

Click **"Create"** in bottom of the portal.



The screenshot shows the Microsoft Azure portal interface for creating a virtual machine. The left sidebar contains navigation links such as 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area is titled 'Virtual machines' and includes a 'Create a virtual machine' button. The 'Create a virtual machine' wizard is open, showing a 'Validation passed' message. The 'Basics' tab is selected, displaying configuration details for a Standard B1s VM. The 'Create' button is highlighted in yellow.

Virtual machines

Default Directory

+ Add Reservations More

Filter by name...

NAME

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

[Learn more about Windows virtual machines](#)

[Learn more about Linux virtual machines](#)

[Create virtual machine](#)

Create a virtual machine

Validation passed

Basics Disks Networking Management Guest config Tags Review + create

PRODUCT DETAILS

Standard B1s
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply
0.9584 INR/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

BASICS

Subscription	Free Trial
Resource group	SansboundAzureClass
Virtual machine name	Win-WebSvrVM
Region	South India
Availability options	No infrastructure redundancy required
Username	sansbound
Public inbound ports	RDP
Already have a Windows license?	Yes
License type	Windows Server

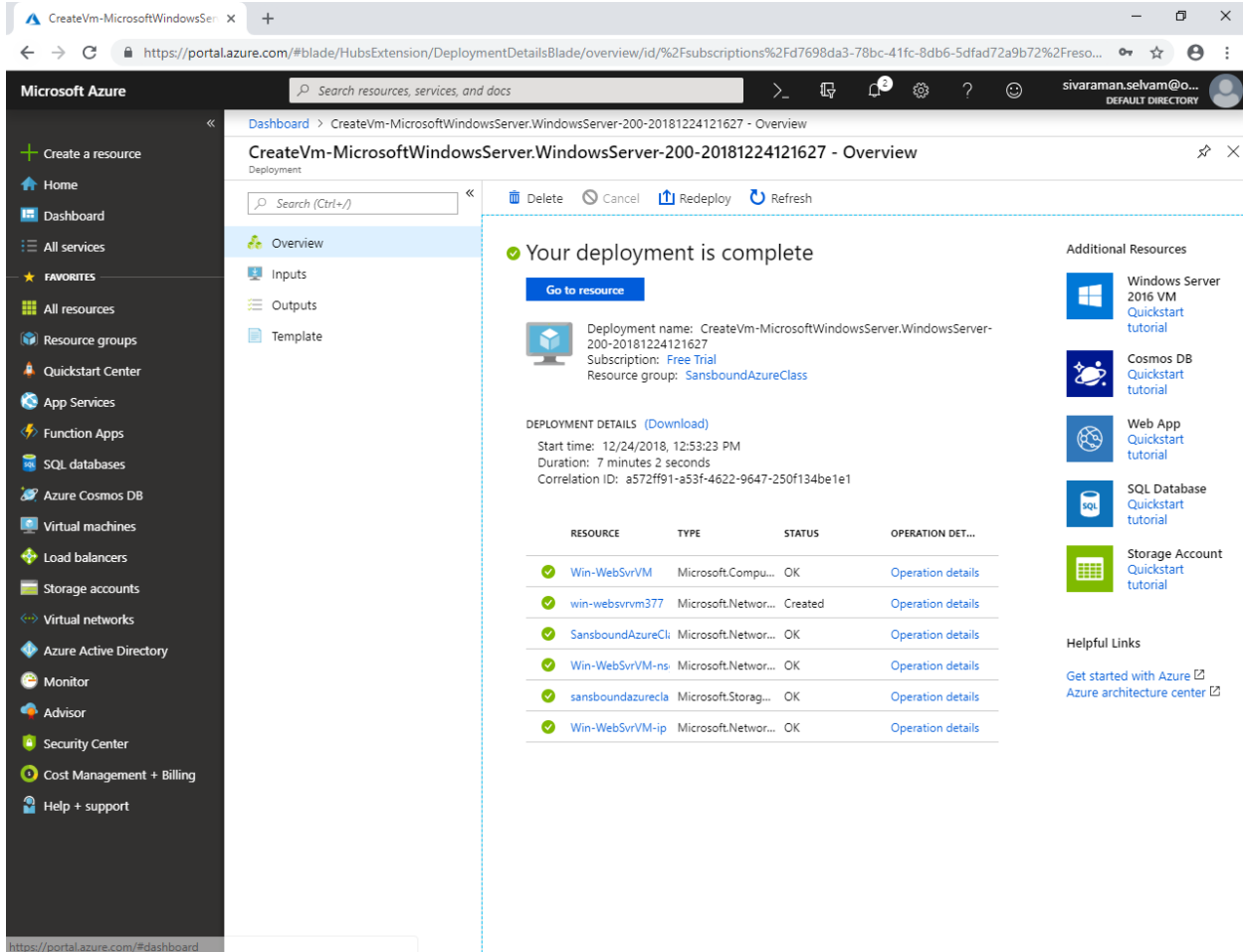
DISKS

OS disk type	Premium SSD
Use managed disks	Yes

NETWORKING

[Create](#) [Previous](#) [Next](#) [Download a template for automation](#)

Click “Go to resource”.



Microsoft Azure

Search resources, services, and docs

Dashboard > CreateVm-MicrosoftWindowsServer.WindowsServer-200-20181224121627 - Overview

CreateVm-MicrosoftWindowsServer.WindowsServer-200-20181224121627 - Overview

Deployment

Search (Ctrl+/)

Overview

Inputs

Outputs

Template

Delete Cancel Redeploy Refresh

✓ Your deployment is complete

[Go to resource](#)

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsServer-200-20181224121627
 Subscription: [Free Trial](#)
 Resource group: [SansboundAzureClass](#)

DEPLOYMENT DETAILS ([Download](#))

Start time: 12/24/2018, 12:53:23 PM
 Duration: 7 minutes 2 seconds
 Correlation ID: a572ff91-a53f-4622-9647-250f134be1e1

RESOURCE	TYPE	STATUS	OPERATION DET...
✓ Win-WebSrvVM	Microsoft.Compu...	OK	Operation details
✓ win-websrvvm377	Microsoft.Networ...	Created	Operation details
✓ SansboundAzureCli	Microsoft.Networ...	OK	Operation details
✓ Win-WebSrvVM-ns	Microsoft.Networ...	OK	Operation details
✓ sansboundazurecla	Microsoft.Storag...	OK	Operation details
✓ Win-WebSrvVM-ip	Microsoft.Networ...	OK	Operation details

Additional Resources

- [Windows Server 2016 VM Quickstart tutorial](#)
- [Cosmos DB Quickstart tutorial](#)
- [Web App Quickstart tutorial](#)
- [SQL Database Quickstart tutorial](#)
- [Storage Account Quickstart tutorial](#)

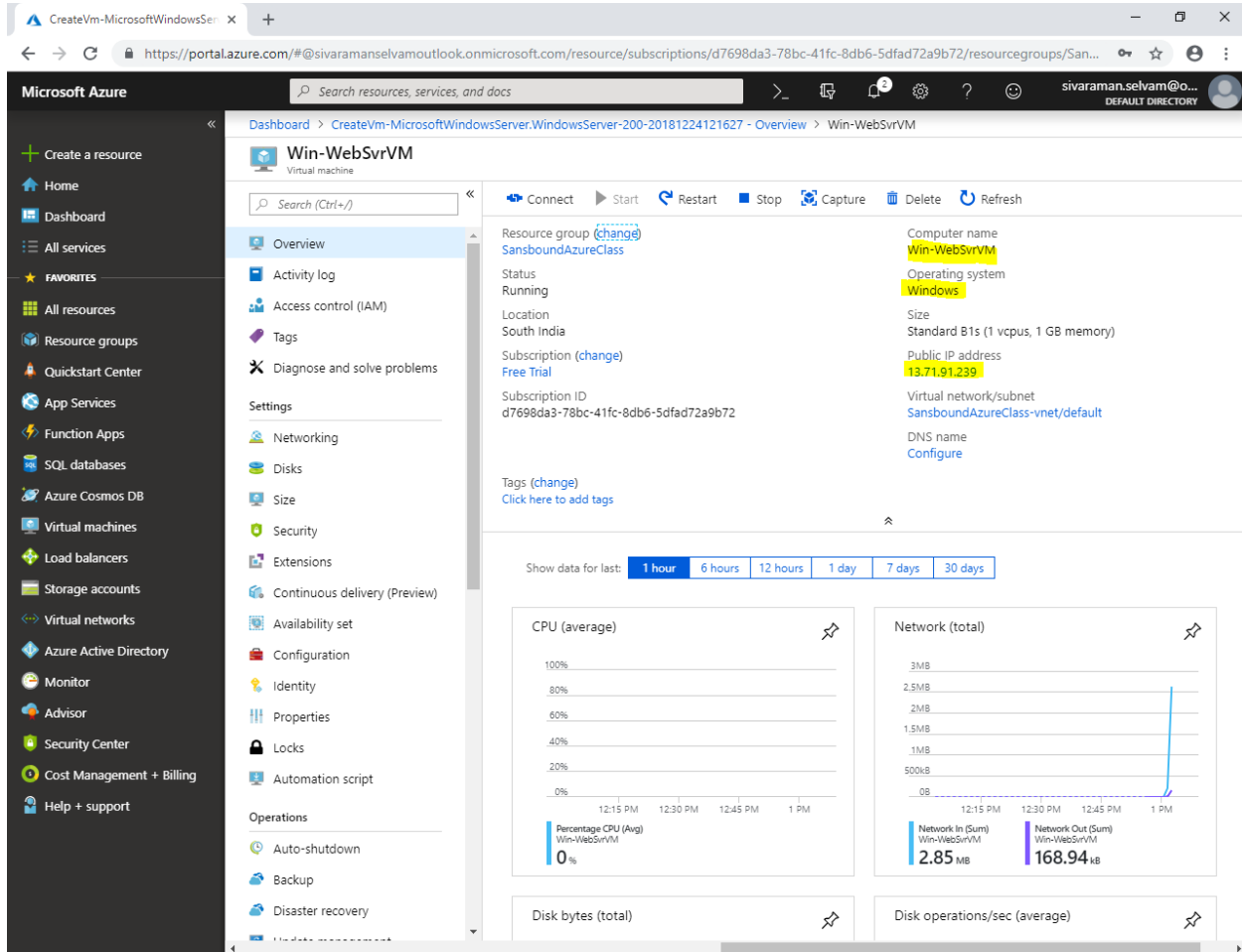
Helpful Links

- [Get started with Azure](#)
- [Azure architecture center](#)

https://portal.azure.com/#dashboard

We have selected “Windows 2008 R2 Sp1”.

Kindly note the public IP address of the Windows VM which has been created for Web server.



The screenshot displays the Microsoft Azure portal interface. The left sidebar shows the navigation menu with options like 'Create a resource', 'Home', 'Dashboard', and 'All services'. The main content area shows the 'Overview' tab for a virtual machine named 'Win-WebSvrVM'. The VM is in a 'Running' state, located in 'South India', and has a public IP address of '13.71.91.239'. Below the overview, there are performance charts for CPU (average), Network (total), Disk bytes (total), and Disk operations/sec (average). The CPU chart shows 0% usage, and the Network chart shows 2.85 MB in and 168.94 kB out.

Microsoft Azure

Search resources, services, and docs

Dashboard > CreateVm-MicrosoftWindowsServer.WindowsServer-200-20181224121627 - Overview > Win-WebSvrVM

Win-WebSvrVM
Virtual machine

Connect Start Restart Stop Capture Delete Refresh

Resource group [\(change\)](#)
SansboundAzureClass

Status
Running

Location
South India

Subscription [\(change\)](#)
Free Trial

Subscription ID
d7698da3-78bc-41fc-8db6-5dfad72a9b72

Tags [\(change\)](#)
[Click here to add tags](#)

Computer name
Win-WebSvrVM

Operating system
Windows

Size
Standard B1s (1 vcpu, 1 GB memory)

Public IP address
13.71.91.239

Virtual network/subnet
SansboundAzureClass-vnet/default

DNS name
[Configure](#)

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

CPU (average)

100%
80%
60%
40%
20%
0%

Percentage CPU (Avg)
Win-WebSvrVM
0%

Network (total)

3MB
2.5MB
2MB
1.5MB
1MB
500kB
0B

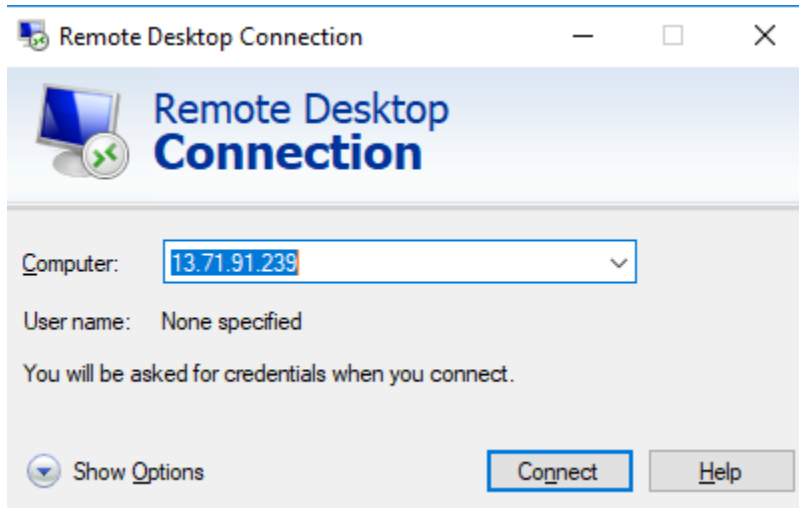
Network In (Sum)
Win-WebSvrVM
2.85 MB

Network Out (Sum)
Win-WebSvrVM
168.94 kB

Disk bytes (total)

Disk operations/sec (average)

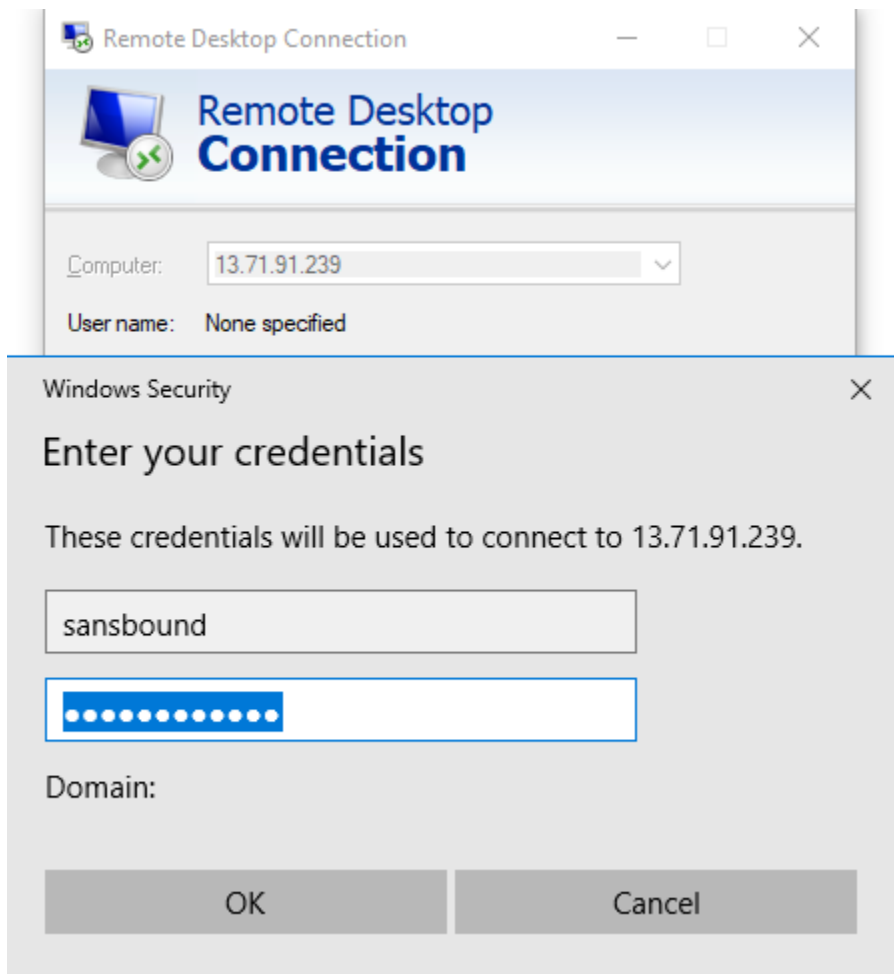
Type **"mstsc"** in run box and press "Enter".



Click **"Connect"**

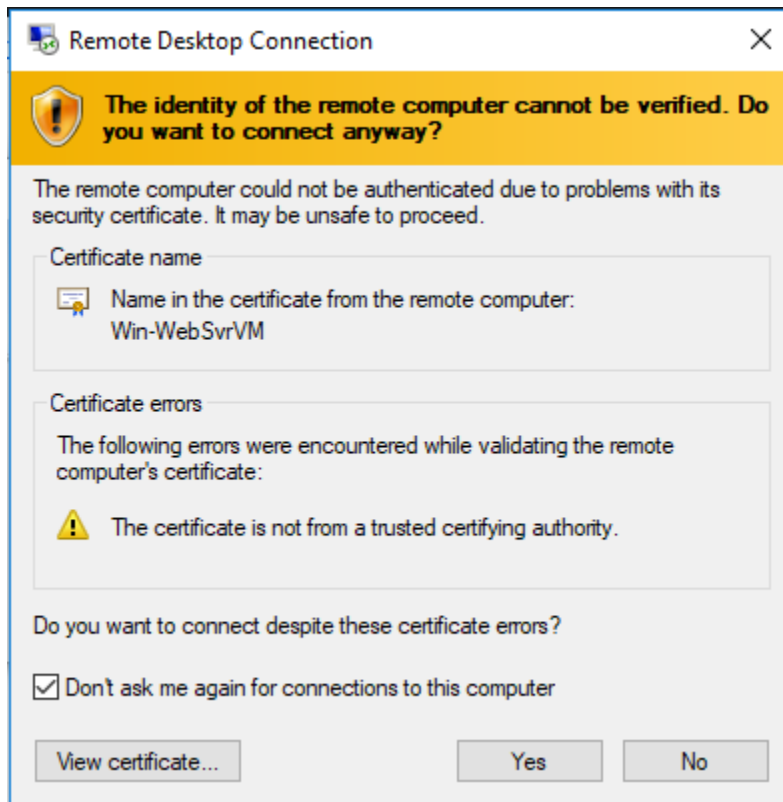
Type username as “sanbound”

Type password for the server which you have specified in the Azure portal while creating VM.

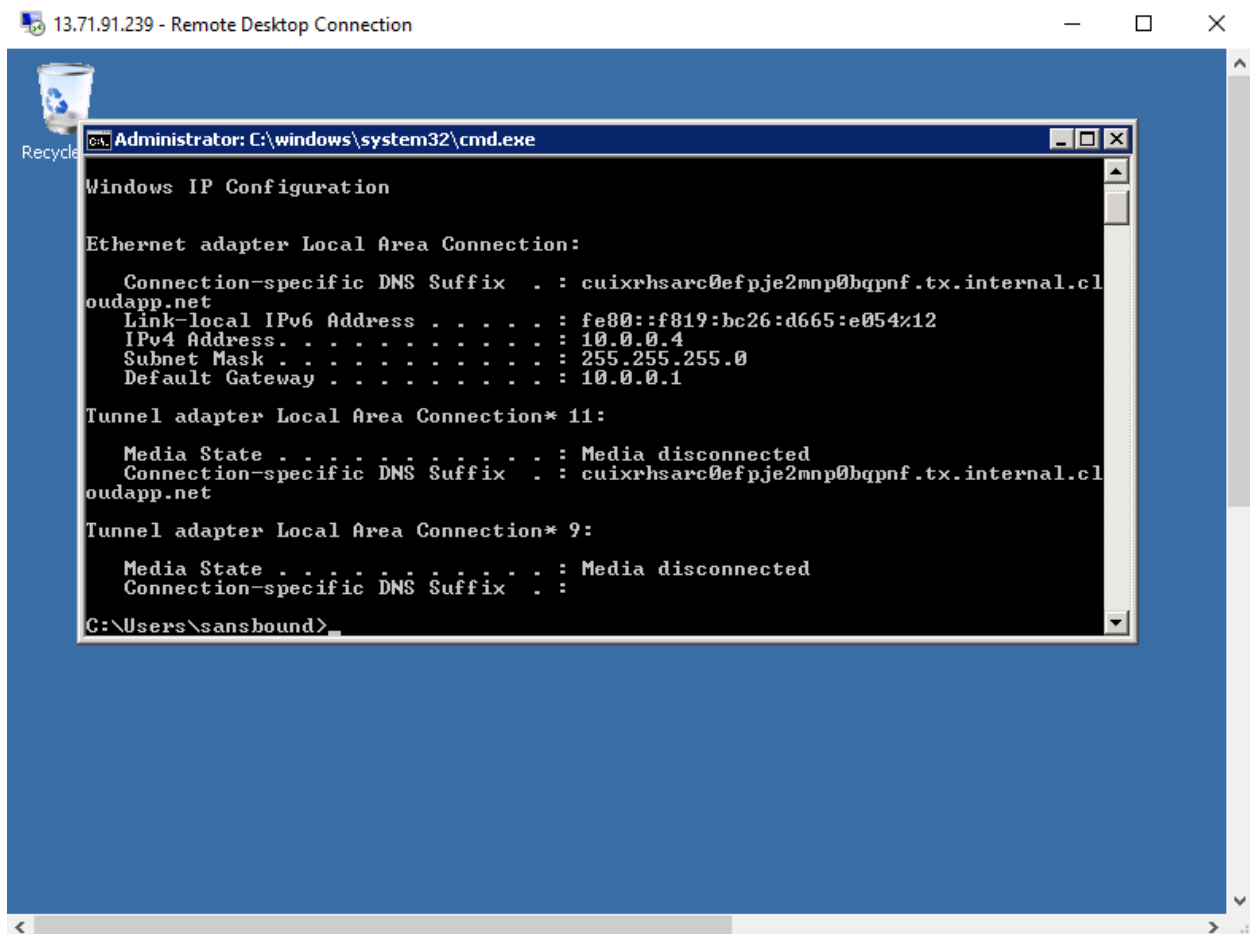


Click “Ok”.

Click “Yes”.



I have got **10.0.0.4** IP address for the **Windows 2008 R2 Sp1** server.



```
Administrator: C:\windows\system32\cmd.exe

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : cuixrhsarc0efpje2mnp0bqpnf.tx.internal.cl
oudapp.net
    Link-local IPv6 Address . . . . . : fe80::f819:bc26:d665:e054%12
    IPv4 Address. . . . . : 10.0.0.4
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.0.0.1

Tunnel adapter Local Area Connection* 11:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : cuixrhsarc0efpje2mnp0bqpnf.tx.internal.cl
oudapp.net

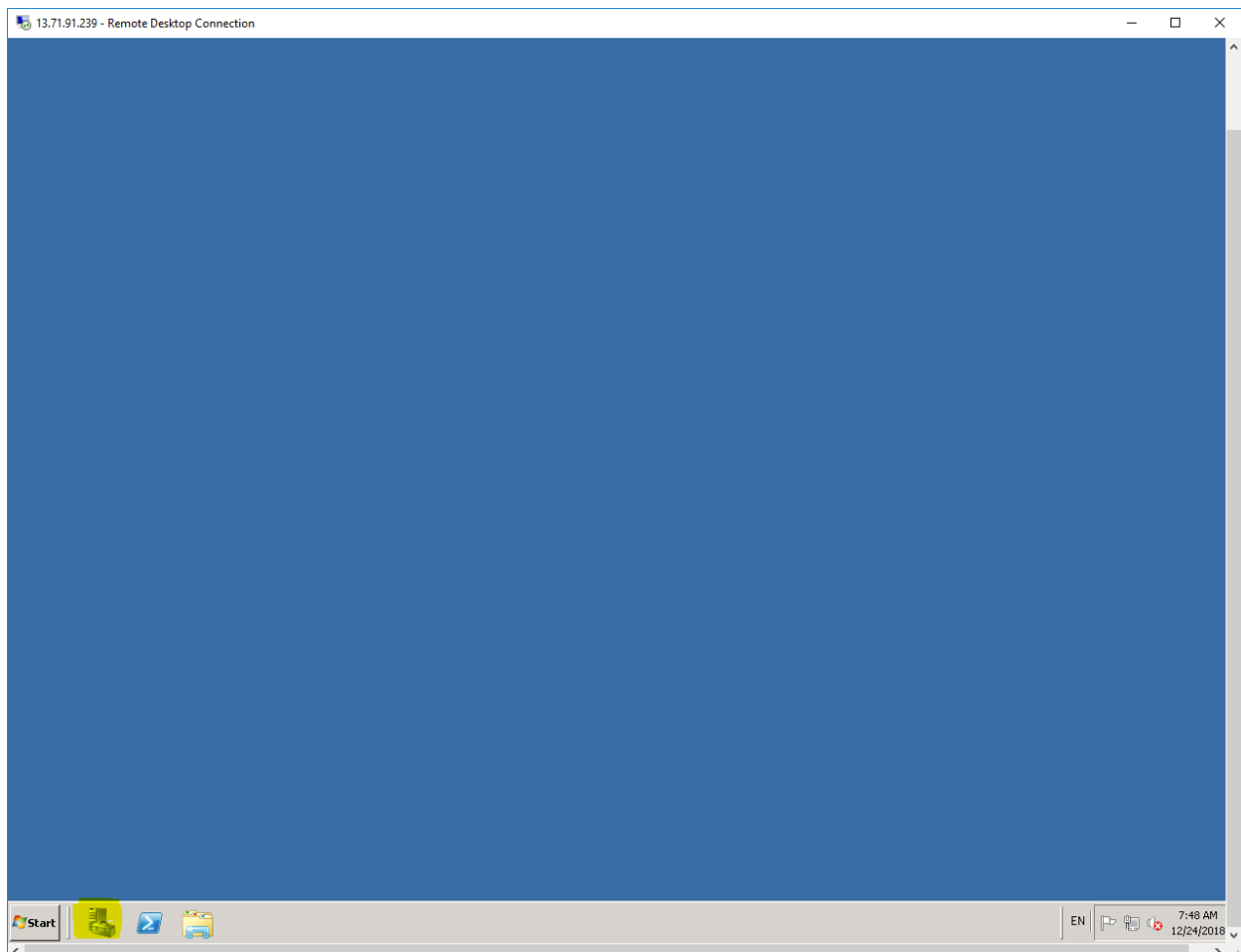
Tunnel adapter Local Area Connection* 9:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

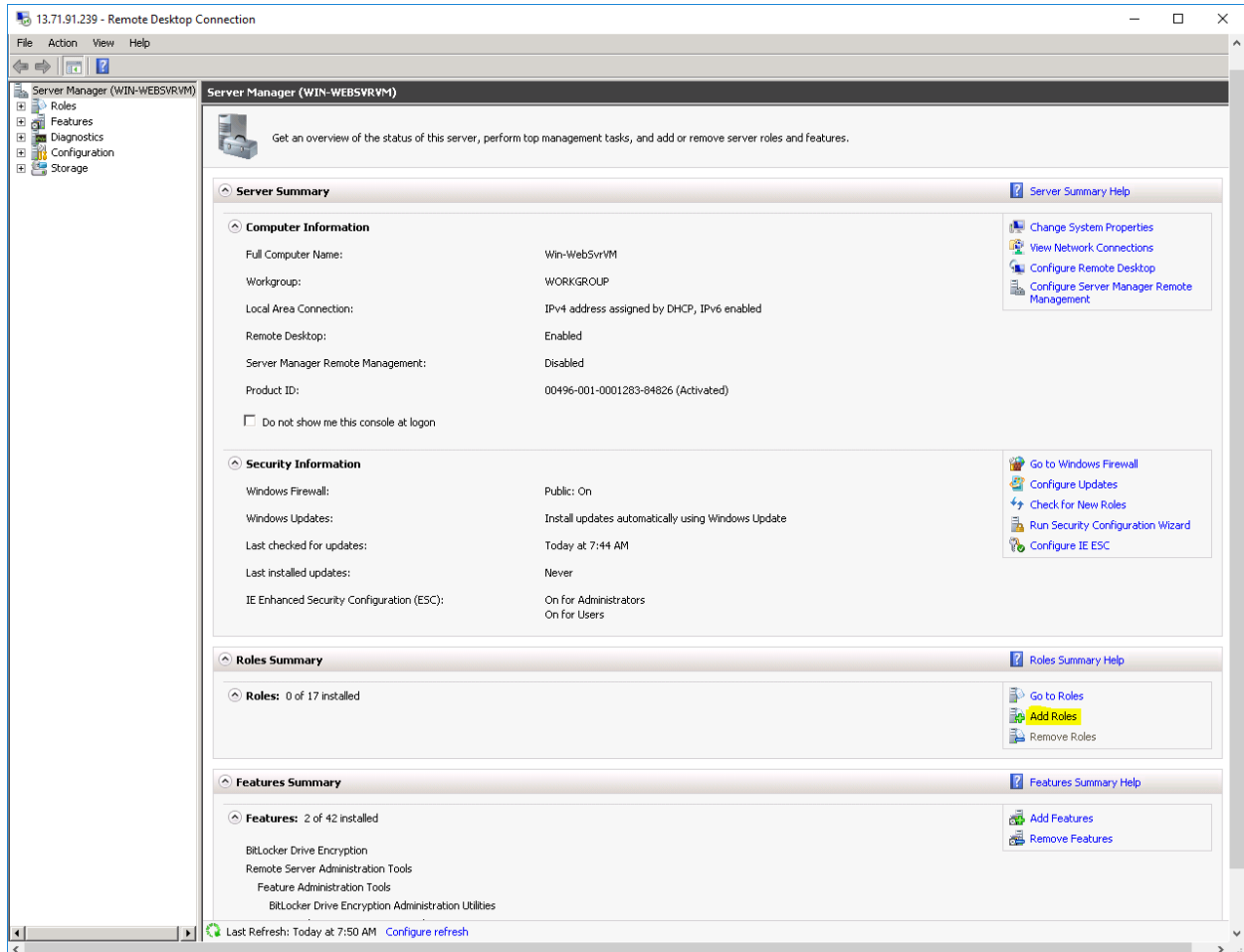
C:\Users\sansbound>
```

Now I have required to install **"IIS"** in Windows 2008 R2 Sp1 Server to configure as **"Web server"**.

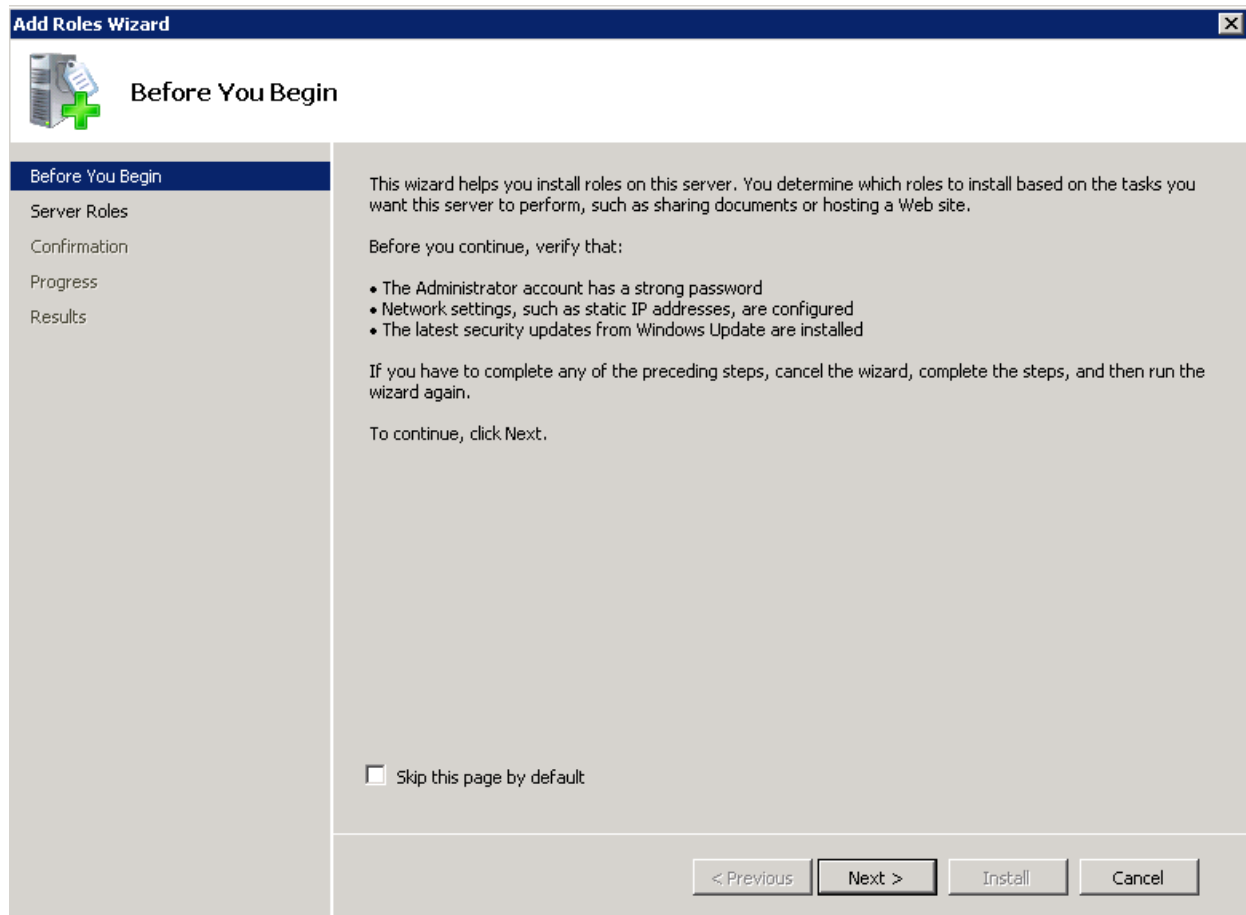
In **"Windows 2008 R2 Server"** click the high lighted icon of **"Server Manager"** in quick launch near start menu to launch it.



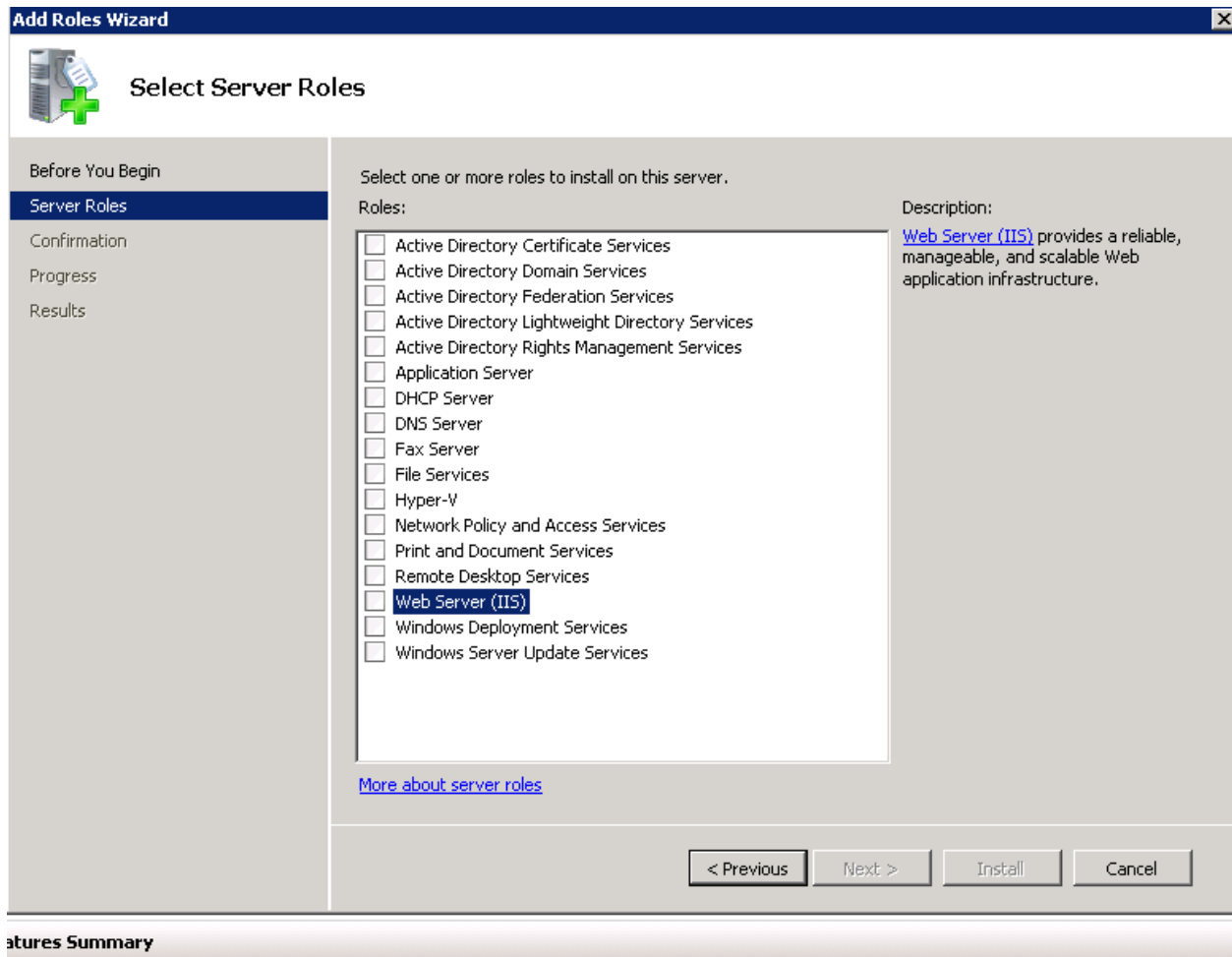
In “Roles Summary” click “Add Roles”.




Click "Next".



In “Web server” you need to Check it.



Add Roles Wizard [X]

 **Select Server Roles**

Before You Begin

Server Roles

Confirmation

Progress

Results

Select one or more roles to install on this server.

Roles:

- ☐ Active Directory Certificate Services
- ☐ Active Directory Domain Services
- ☐ Active Directory Federation Services
- ☐ Active Directory Lightweight Directory Services
- ☐ Active Directory Rights Management Services
- ☐ Application Server
- ☐ DHCP Server
- ☐ DNS Server
- ☐ Fax Server
- ☐ File Services
- ☐ Hyper-V
- ☐ Network Policy and Access Services
- ☐ Print and Document Services
- ☐ Remote Desktop Services
- ☒ **Web Server (IIS)**
- ☐ Windows Deployment Services
- ☐ Windows Server Update Services

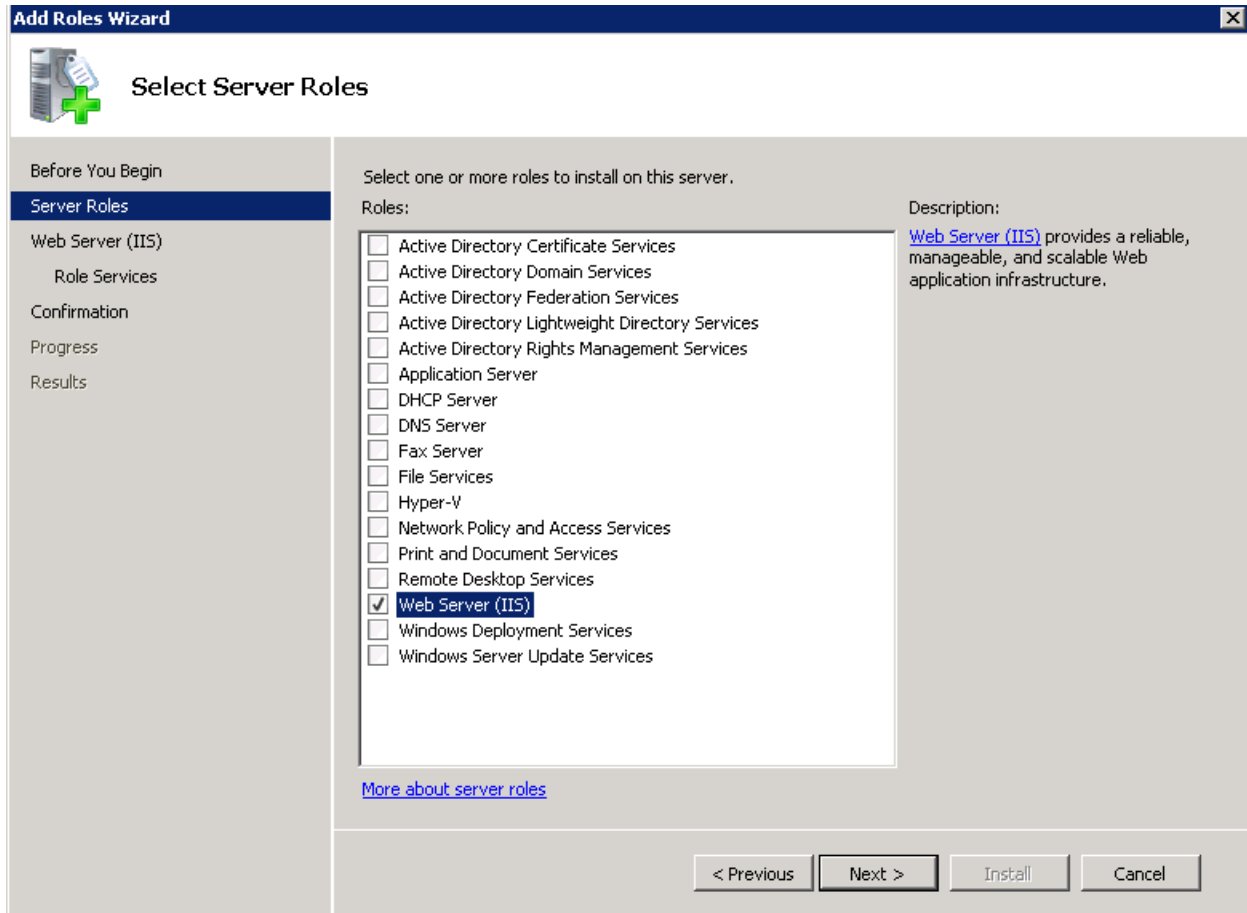
[More about server roles](#)

Description:
[Web Server \(IIS\)](#) provides a reliable, manageable, and scalable Web application infrastructure.


< Previous Next > Install Cancel

Features Summary

Ensure that “Web Server (IIS)” is selected and click “Next”.



Add Roles Wizard

 **Select Server Roles**

Before You Begin

Server Roles

Web Server (IIS)

Role Services

Confirmation

Progress

Results

Select one or more roles to install on this server.

Roles:

- ☐ Active Directory Certificate Services
- ☐ Active Directory Domain Services
- ☐ Active Directory Federation Services
- ☐ Active Directory Lightweight Directory Services
- ☐ Active Directory Rights Management Services
- ☐ Application Server
- ☐ DHCP Server
- ☐ DNS Server
- ☐ Fax Server
- ☐ File Services
- ☐ Hyper-V
- ☐ Network Policy and Access Services
- ☐ Print and Document Services
- ☐ Remote Desktop Services
- ☒ **Web Server (IIS)**
- ☐ Windows Deployment Services
- ☐ Windows Server Update Services

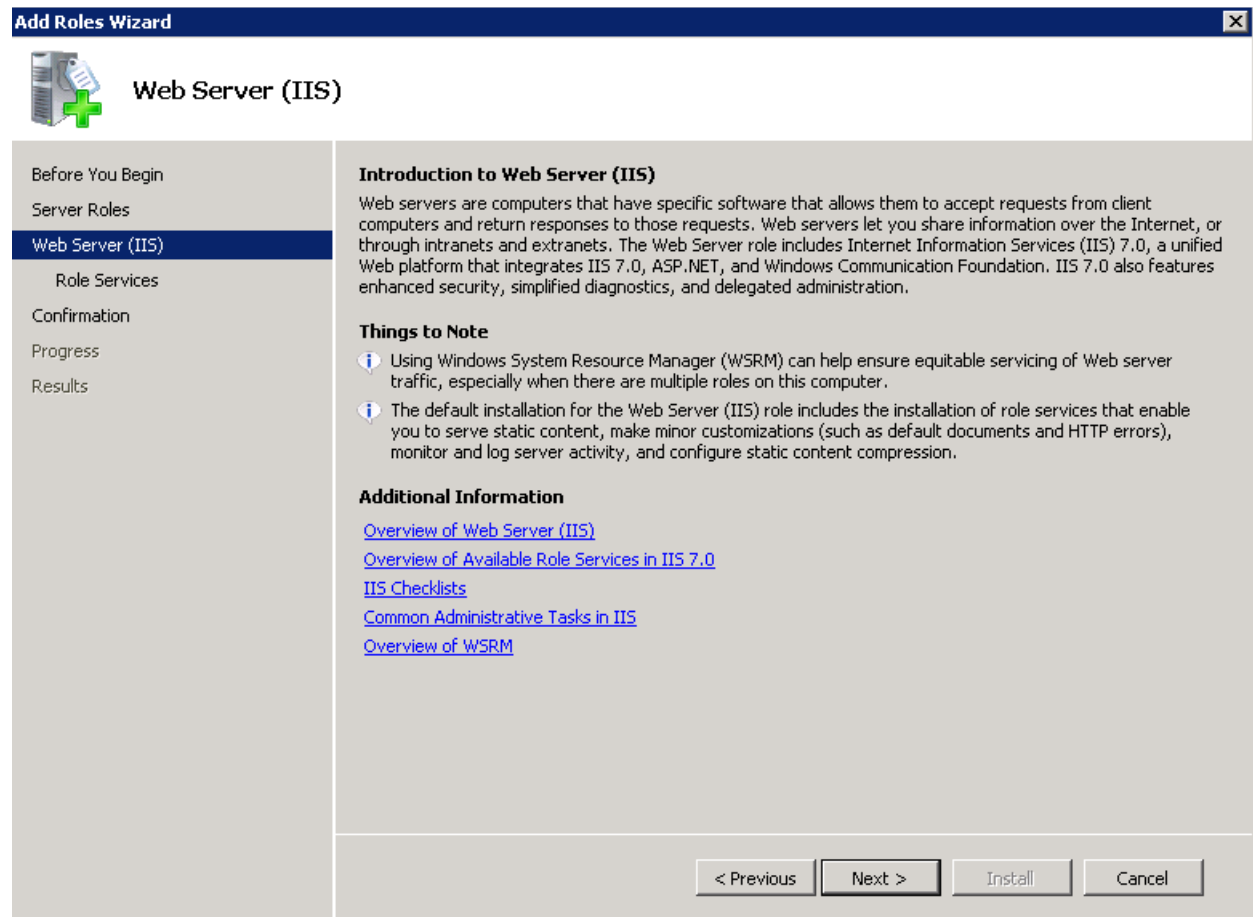
Description:

[Web Server \(IIS\)](#) provides a reliable, manageable, and scalable Web application infrastructure.

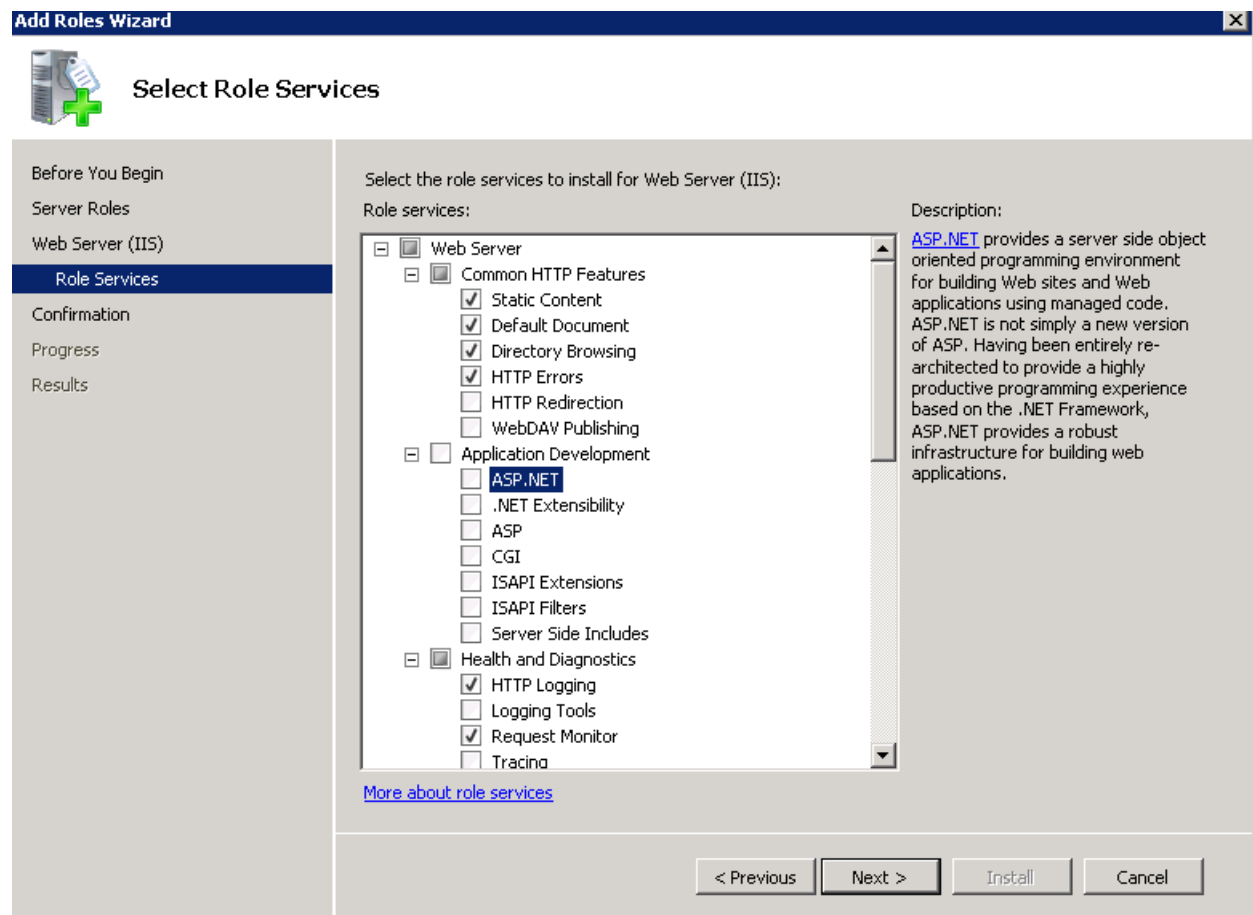
[More about server roles](#)

< Previous Next > Install Cancel

Click "Next".

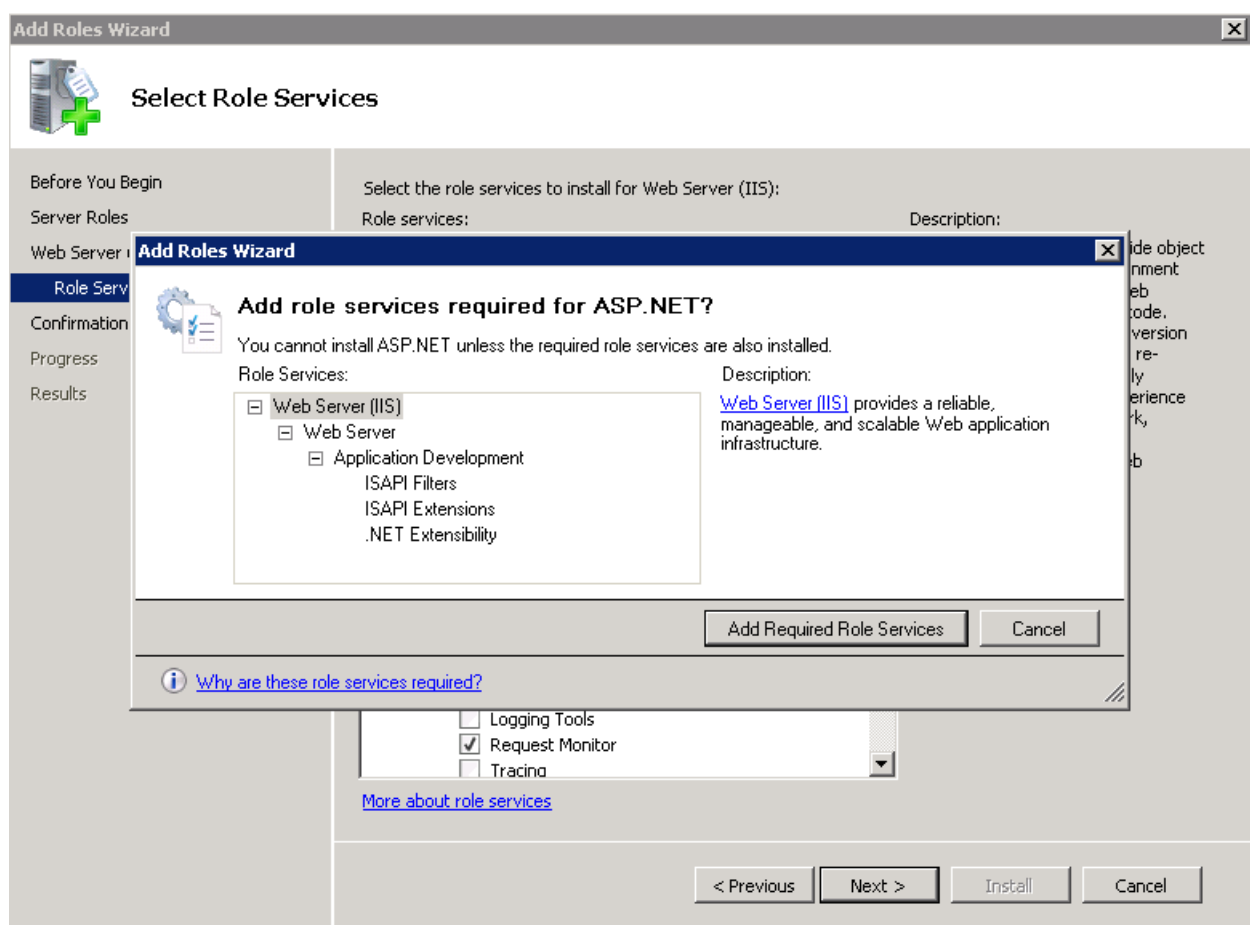


In “Application Development”, need to check “ASP .Net”.

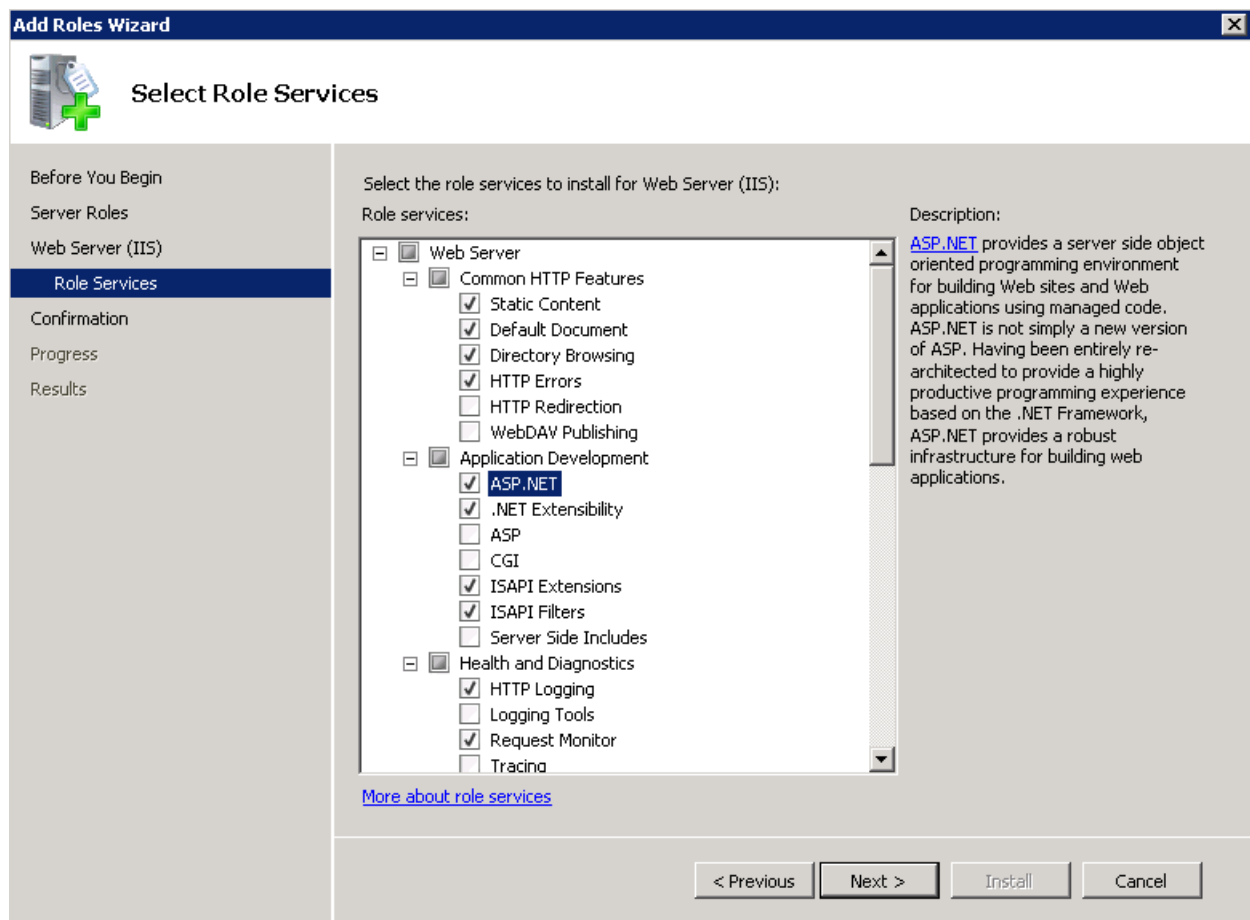


Once you have checked the ASP.NET check box, you will get below window.

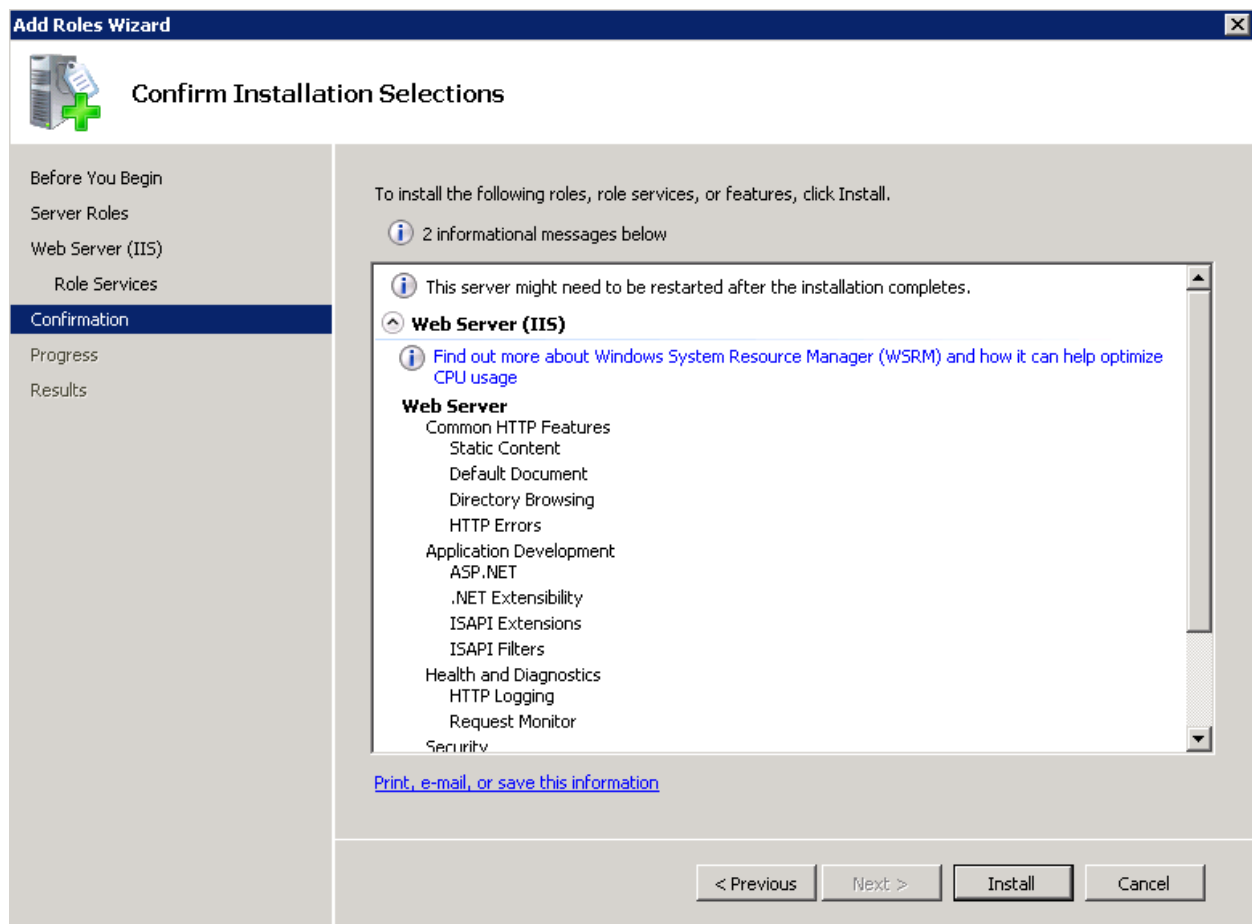
Click **"Add required role services"**.



Click "Next".

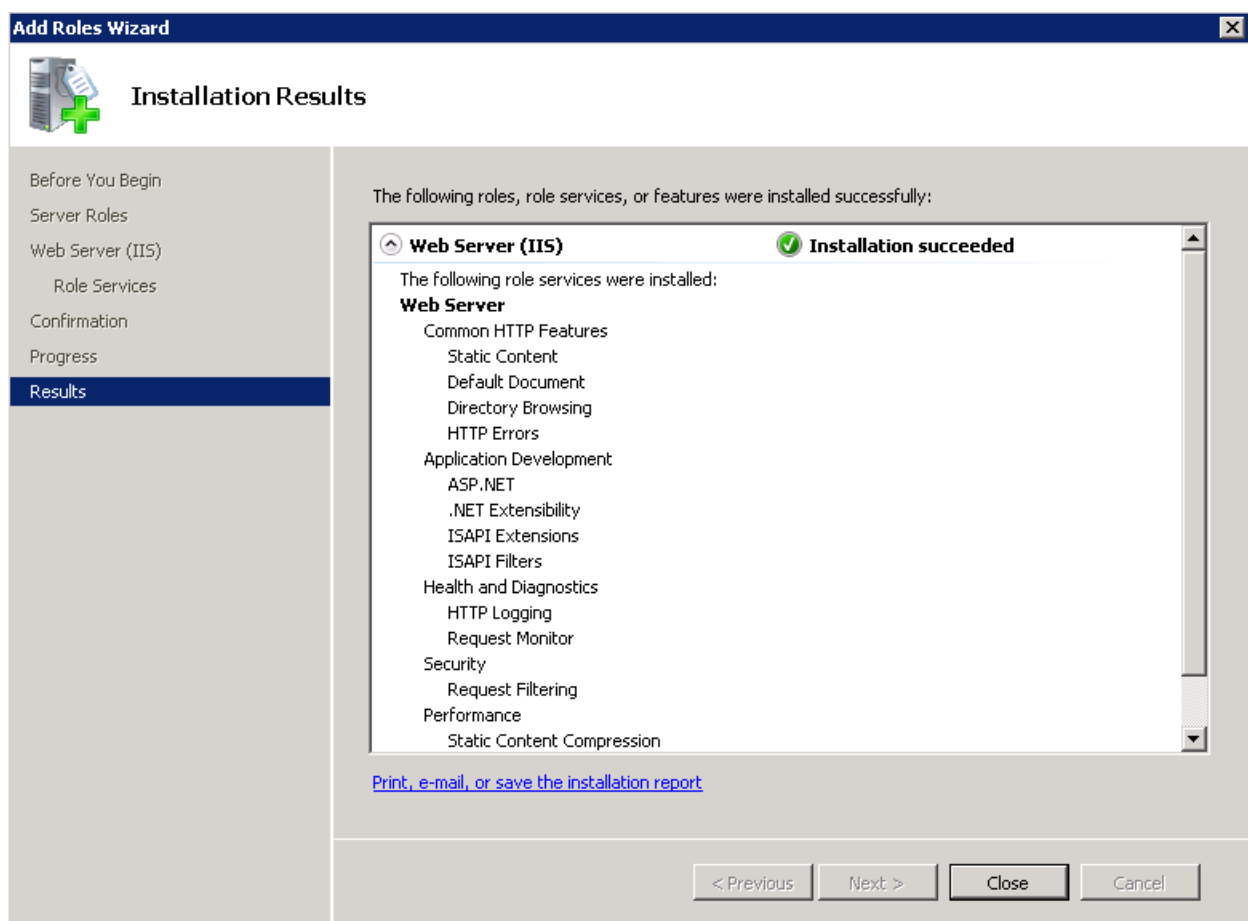


Click **"Install"**.



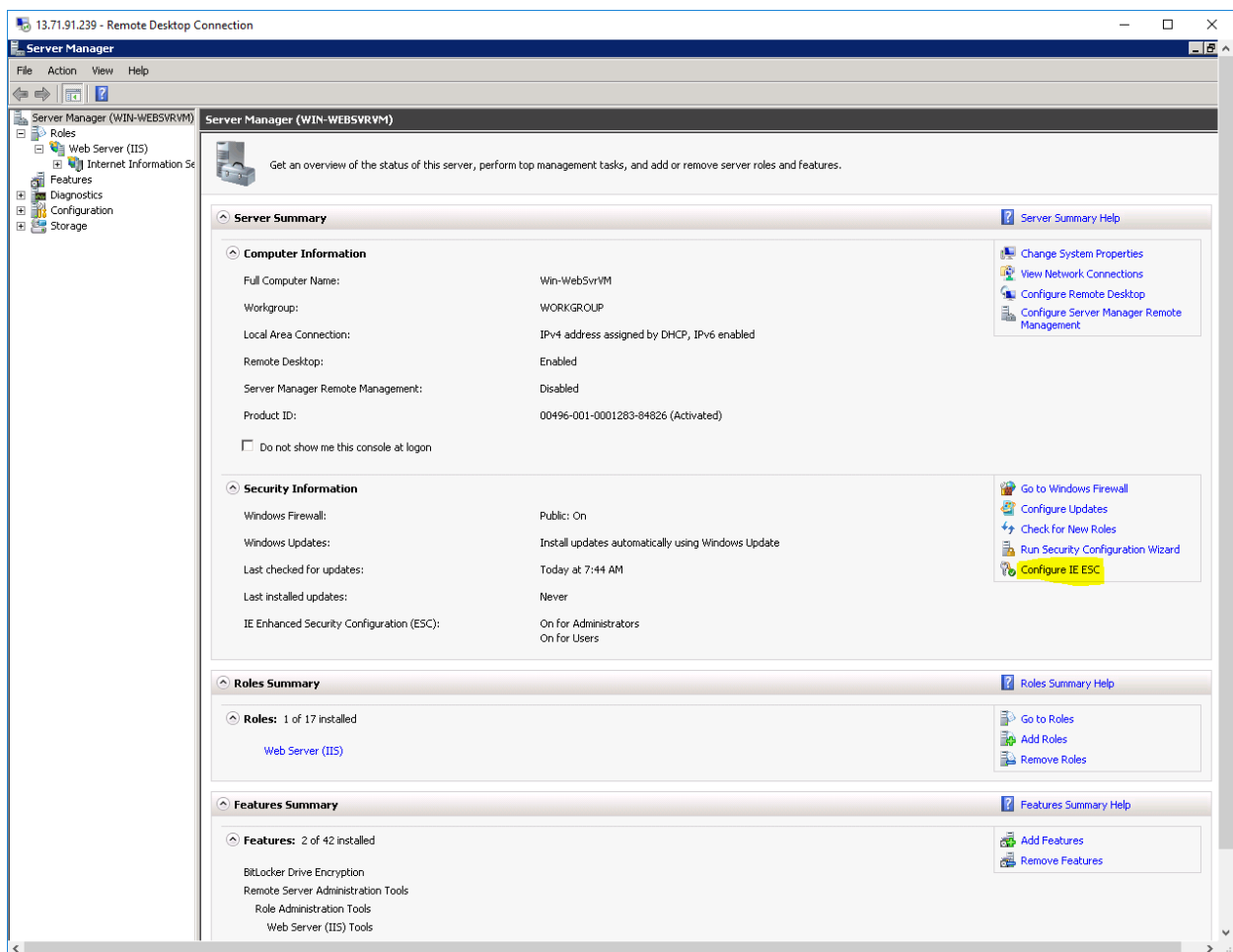
Click “Close”.

You have successfully created web server in Windows.



In Server manager,

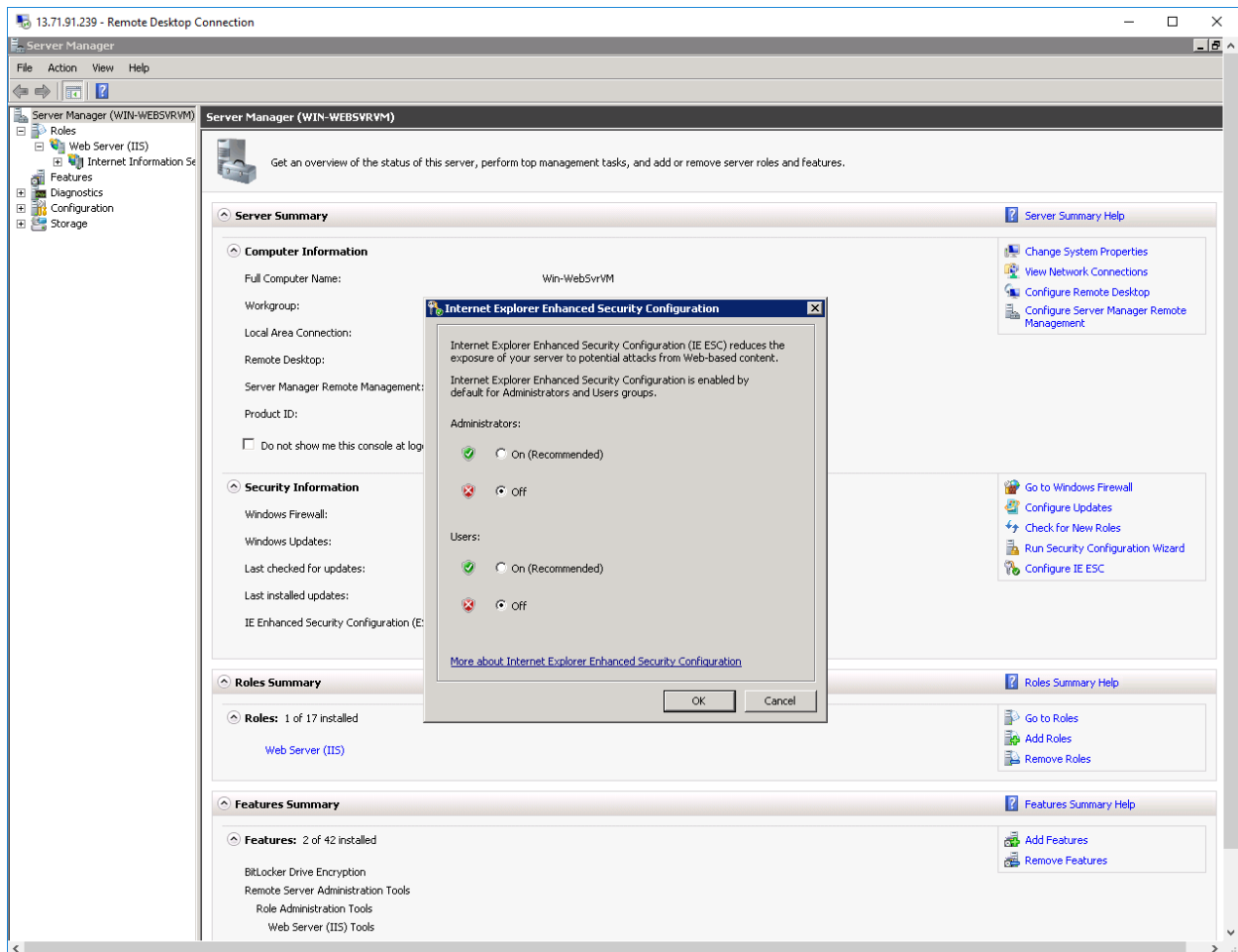
Click “Configure IE ESC”.



In IE Enhanced Security Configuration,

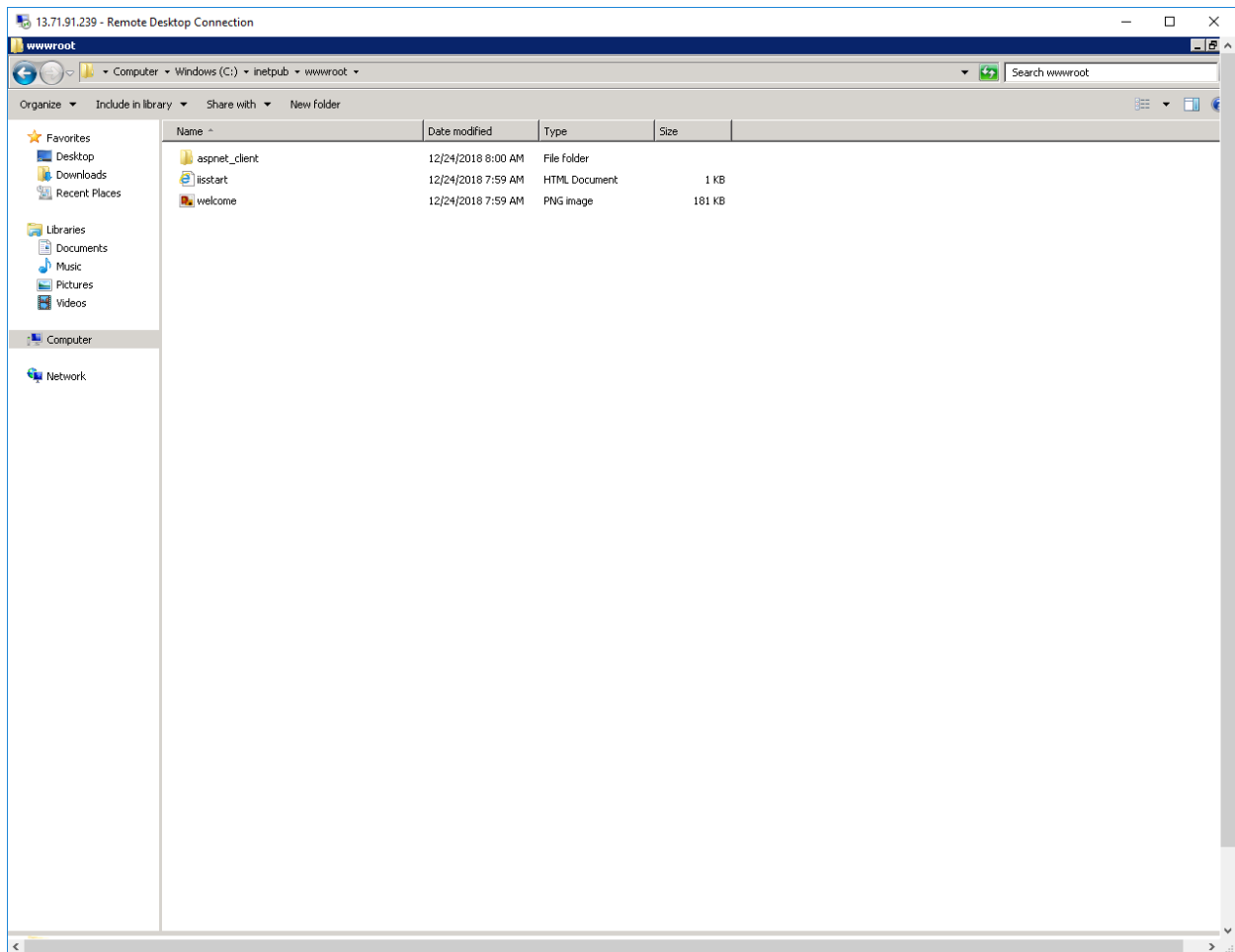
Set **"Off"** for Administrators

Set **"Off"** for Users and click **"OK"**.



In Windows Server 2008 R2, go to C:\inetpub\wwwroot

Open **“Welcome.png”**.

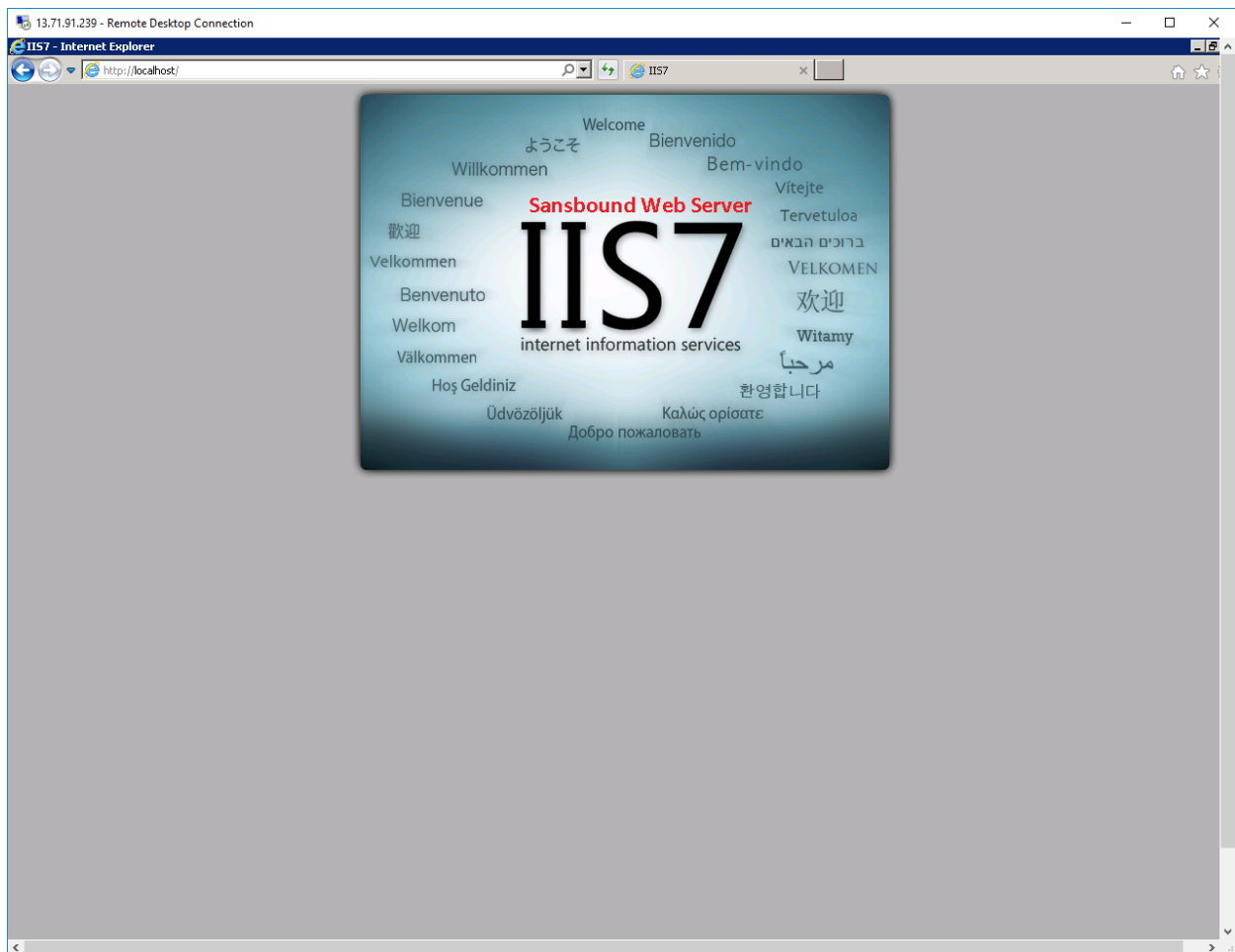


Modify the Welcome.jpg as per your wish and save it.



In Windows 2008 R2 server, in Internet explorer type “localhost” and press “Enter” to get the web page.

Yes, we have successfully got the web page with in the Azure VM.



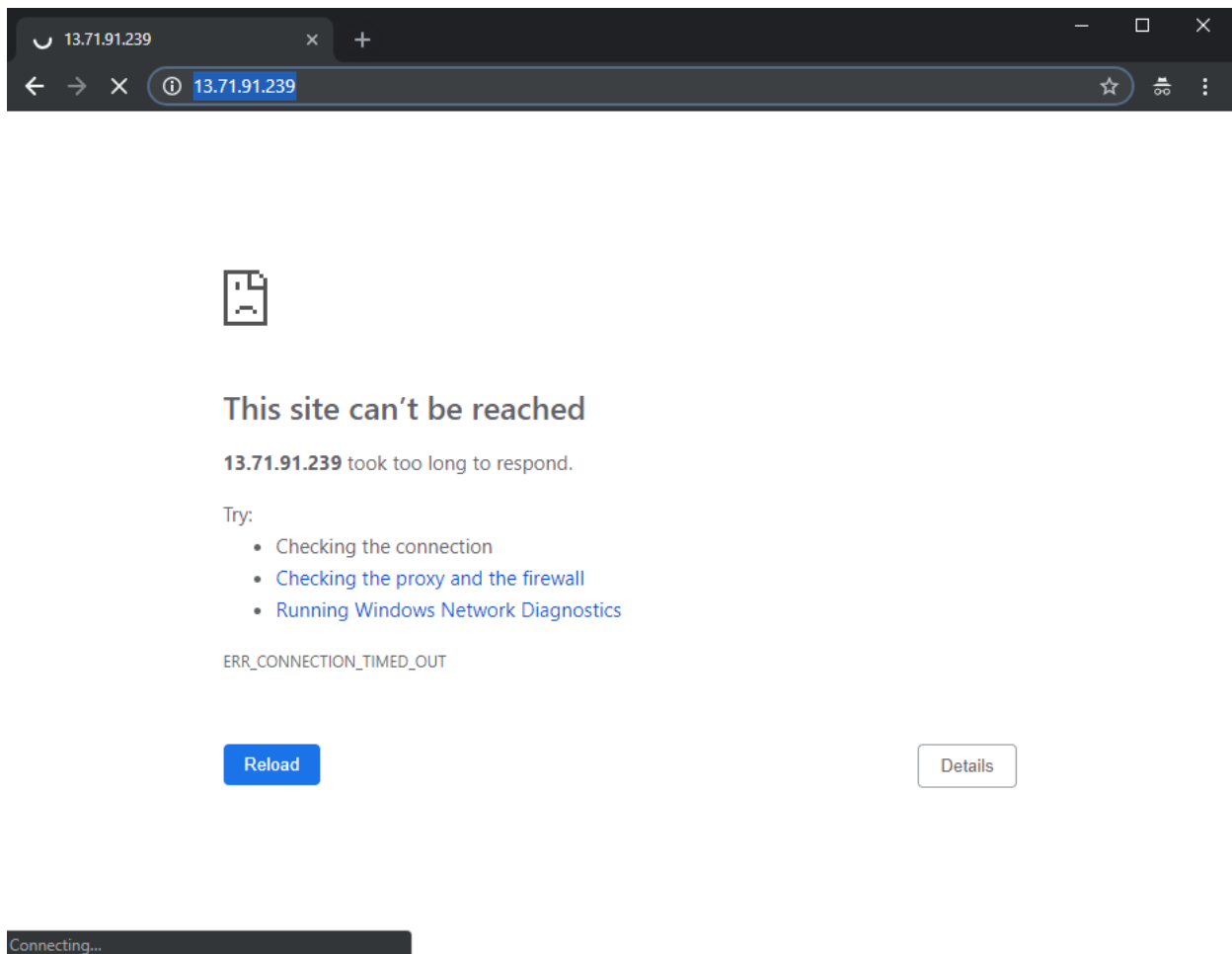
Now we have required to access the Web server through public.

Kindly note the Public IP of the Windows Virtual Machine (Win 2008 R2) and try to connect from local machine.

But, you are not able to get the web page.

What could be the reason?

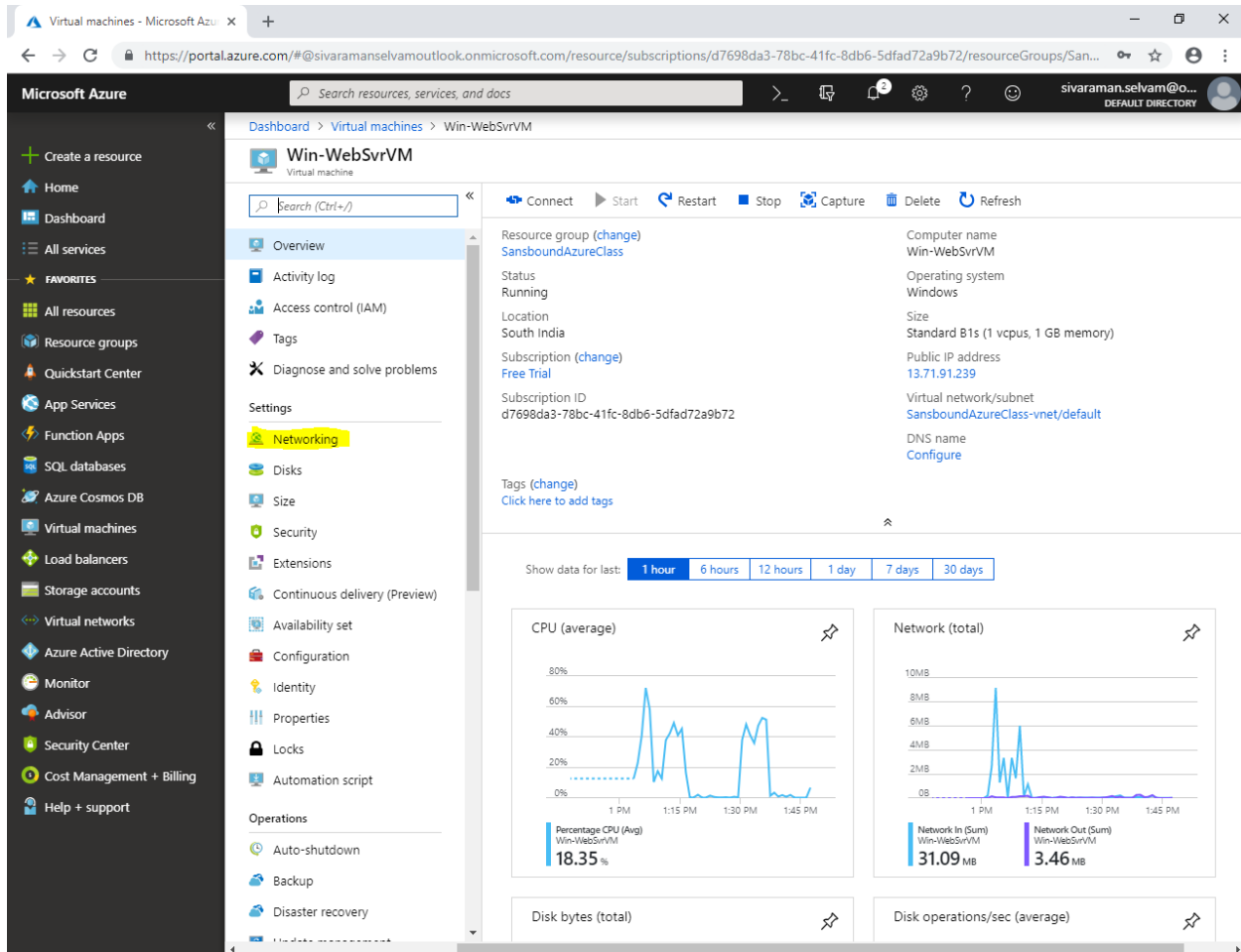
You have allowed only (RDP – 3389) Port only in inbound port rule to access selected ports from Public. That is the reason you are not able to access the (HTTP – 80) Port through public. Hence you have required to permit HTTP (80).



Cloud Computing - Azure

Select the virtual machine,

Click **“Networking”**.



The screenshot displays the Microsoft Azure portal interface. The left-hand navigation pane shows the 'Virtual machines' section, with the 'Networking' tab highlighted under the 'Settings' category. The main content area shows the details for the 'Win-WebSrvVM' virtual machine. The 'Overview' tab is active, displaying various properties such as Resource group (SansboundAzureClass), Status (Running), Location (South India), and Subscription ID (d7698da3-78bc-41fc-8db6-5dfad72a9b72). The 'Networking' tab is selected, showing a graph of CPU (average) usage over time, with a peak of 18.35%.

Virtual machines - Microsoft Azure

Search resources, services, and docs

Dashboard > Virtual machines > Win-WebSrvVM

Win-WebSrvVM

Virtual machine

Connect Start Restart Stop Capture Delete Refresh

Resource group (change)
SansboundAzureClass

Status
Running

Location
South India

Subscription (change)
Free Trial

Subscription ID
d7698da3-78bc-41fc-8db6-5dfad72a9b72

Tags (change)
Click here to add tags

Computer name
Win-WebSrvVM

Operating system
Windows

Size
Standard B1s (1 vcpu, 1 GB memory)

Public IP address
13.71.91.239

Virtual network/subnet
SansboundAzureClass-vnet/default

DNS name
Configure

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

CPU (average)

Percentage CPU (Avg)
Win-WebSrvVM
18.35 %

Network (total)

Network In (Sum)
Win-WebSrvVM
31.09 MB

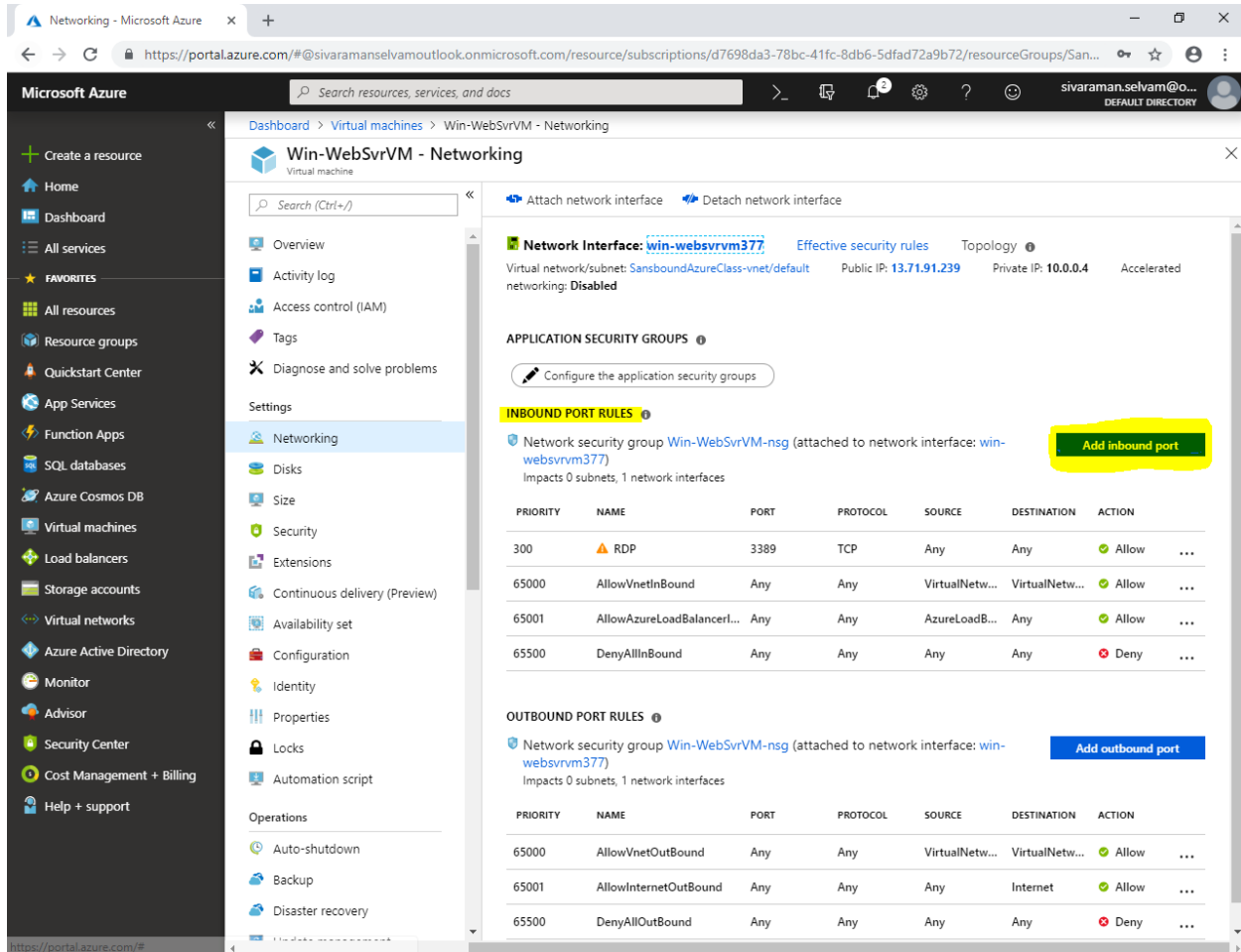
Network Out (Sum)
Win-WebSrvVM
3.46 MB

Disk bytes (total)

Disk operations/sec (average)

In "Networking"

At "Inbound Port Rules" click **"Add inbound port"**.



The screenshot shows the Microsoft Azure portal interface. The left sidebar contains the navigation menu with options like 'Create a resource', 'Home', 'Dashboard', 'All services', 'FAVORITES', 'All resources', 'Resource groups', 'Quickstart Center', 'App Services', 'Function Apps', 'SQL databases', 'Azure Cosmos DB', 'Virtual machines', 'Load balancers', 'Storage accounts', 'Virtual networks', 'Azure Active Directory', 'Monitor', 'Advisor', 'Security Center', 'Cost Management + Billing', and 'Help + support'. The main content area displays the 'Win-WebSrvVM - Networking' page. The 'INBOUND PORT RULES' section is highlighted with a yellow box, and the 'Add inbound port' button is also highlighted with a yellow box.

INBOUND PORT RULES

Network security group **Win-WebSrvVM-nsg** (attached to network interface: **win-websrvvm377**)
Impacts 0 subnets, 1 network interfaces

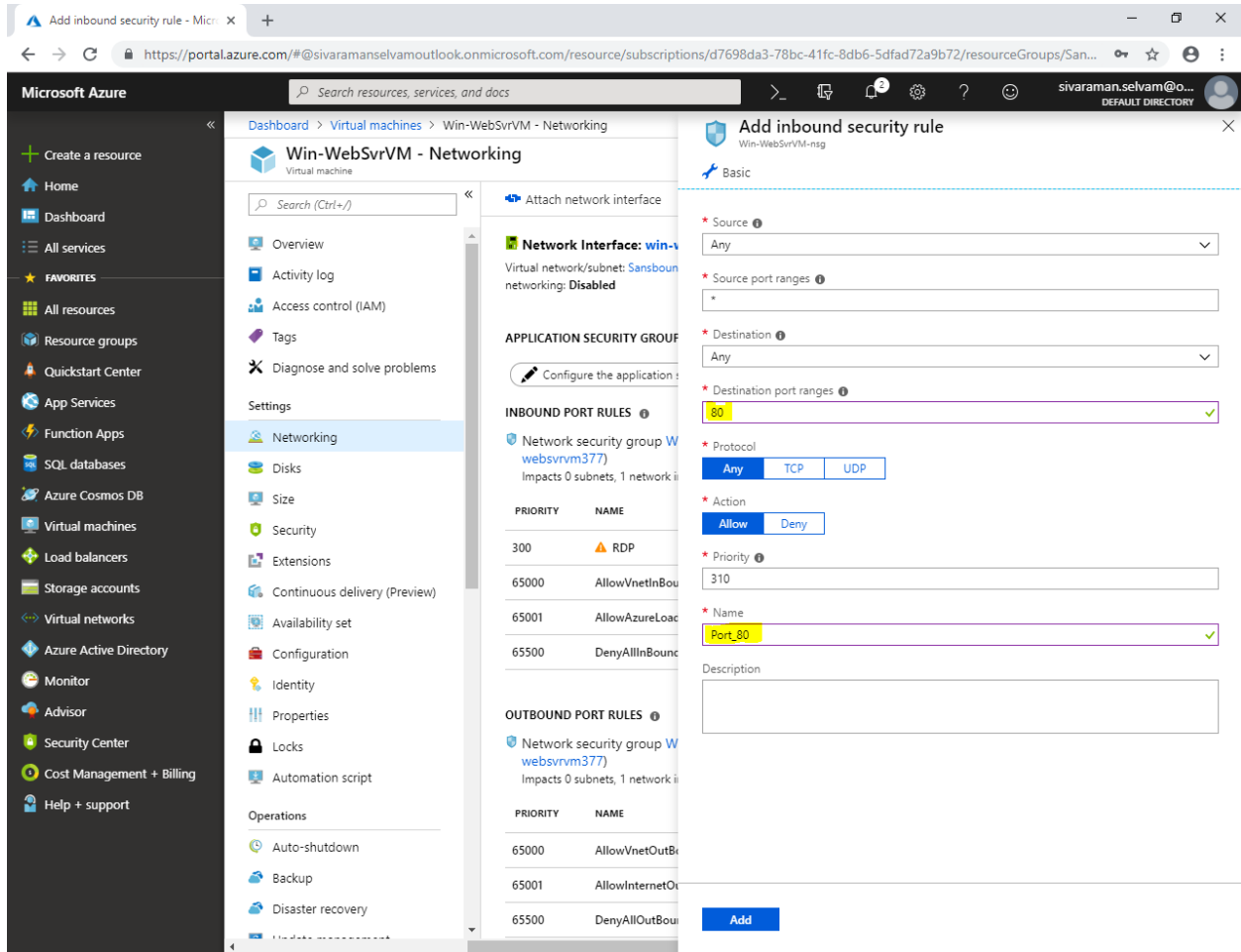
PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
300	RDP	3389	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetw...	VirtualNetw...	Allow
65001	AllowAzureLoadBalancer...	Any	Any	AzureLoadB...	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

OUTBOUND PORT RULES

Network security group **Win-WebSrvVM-nsg** (attached to network interface: **win-websrvvm377**)
Impacts 0 subnets, 1 network interfaces

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
65000	AllowVnetOutBound	Any	Any	VirtualNetw...	VirtualNetw...	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

Type "Destination port" range as "80"



The screenshot shows the Azure portal interface for configuring an inbound security rule on a virtual machine named 'Win-WebSvrVM'. The 'Add inbound security rule' pane is open, showing the 'Basic' tab. The 'Destination port ranges' field is highlighted with a yellow box and contains the value '80'. The 'Name' field is also highlighted with a yellow box and contains the value 'Port_80'. The 'Action' is set to 'Allow'.

Win-WebSvrVM - Networking

Virtual machine

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Disks

Size

Security

Extensions

Continuous delivery (Preview)

Availability set

Configuration

Identity

Properties

Locks

Automation script

Operations

Auto-shutdown

Backup

Disaster recovery

Update management

Add inbound security rule

Win-WebSvrVM-nsg

Basic

Source: Any

Source port ranges: *

Destination: Any

Destination port ranges: 80

Protocol: Any TCP UDP

Action: Allow Deny

Priority: 310

Name: Port_80

Description:

INBOUND PORT RULES

PRIORITY	NAME
300	RDP
65000	AllowVnetInBou
65001	AllowAzureLoa
65500	DenyAllInBou

OUTBOUND PORT RULES

PRIORITY	NAME
65000	AllowVnetOutB
65001	AllowInternetO
65500	DenyAllOutBou

Add

Click **"Add"**.

The screenshot shows the Microsoft Azure portal interface. The left sidebar contains navigation options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main area displays the 'Win-WebSvrVM - Networking' page. The 'Add inbound security rule' dialog is open, showing the 'Basic' tab. The configuration details are as follows:

- Source:** Any
- Source port ranges:** Any
- Destination:** Any
- Destination port ranges:** 80
- Protocol:** Any
- Action:** Allow
- Priority:** 310
- Name:** Port_80
- Description:** (empty)

A yellow 'Add' button is highlighted at the bottom right of the configuration area.

Go to browser click “Refresh” to connect the webserver.

Now you have successfully connected to the Web server.

