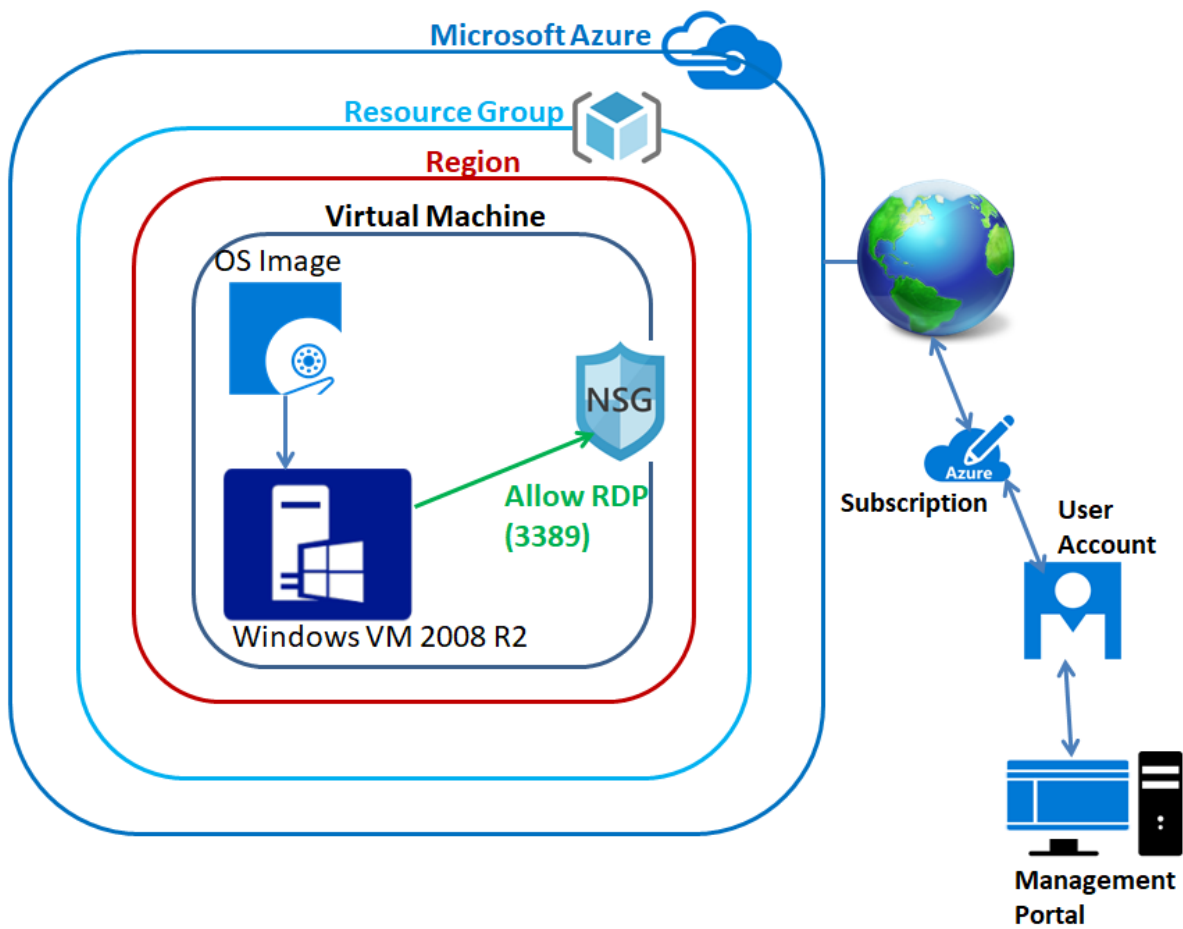
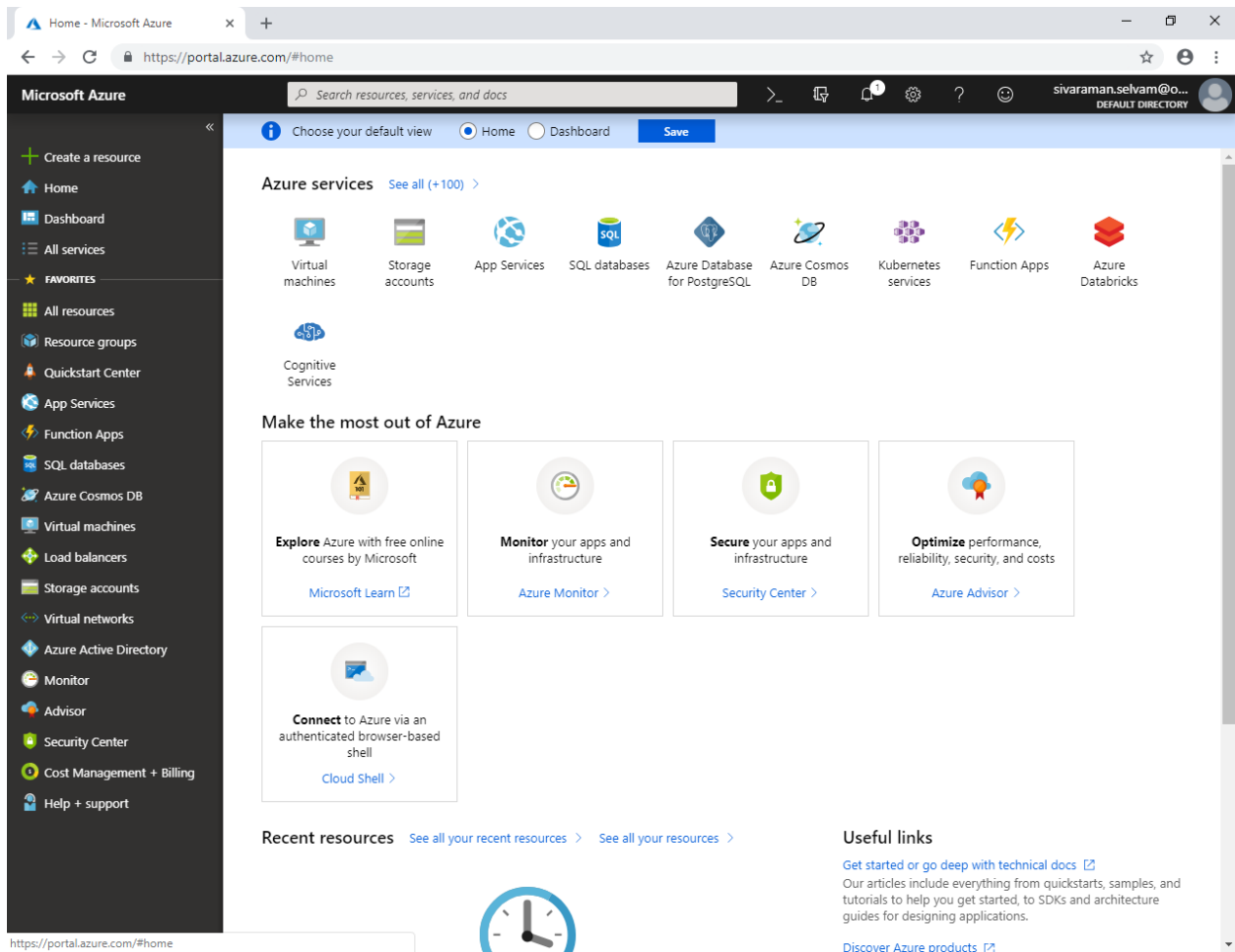


Lab1 – Creating Virtual Machine - Windows in Azure



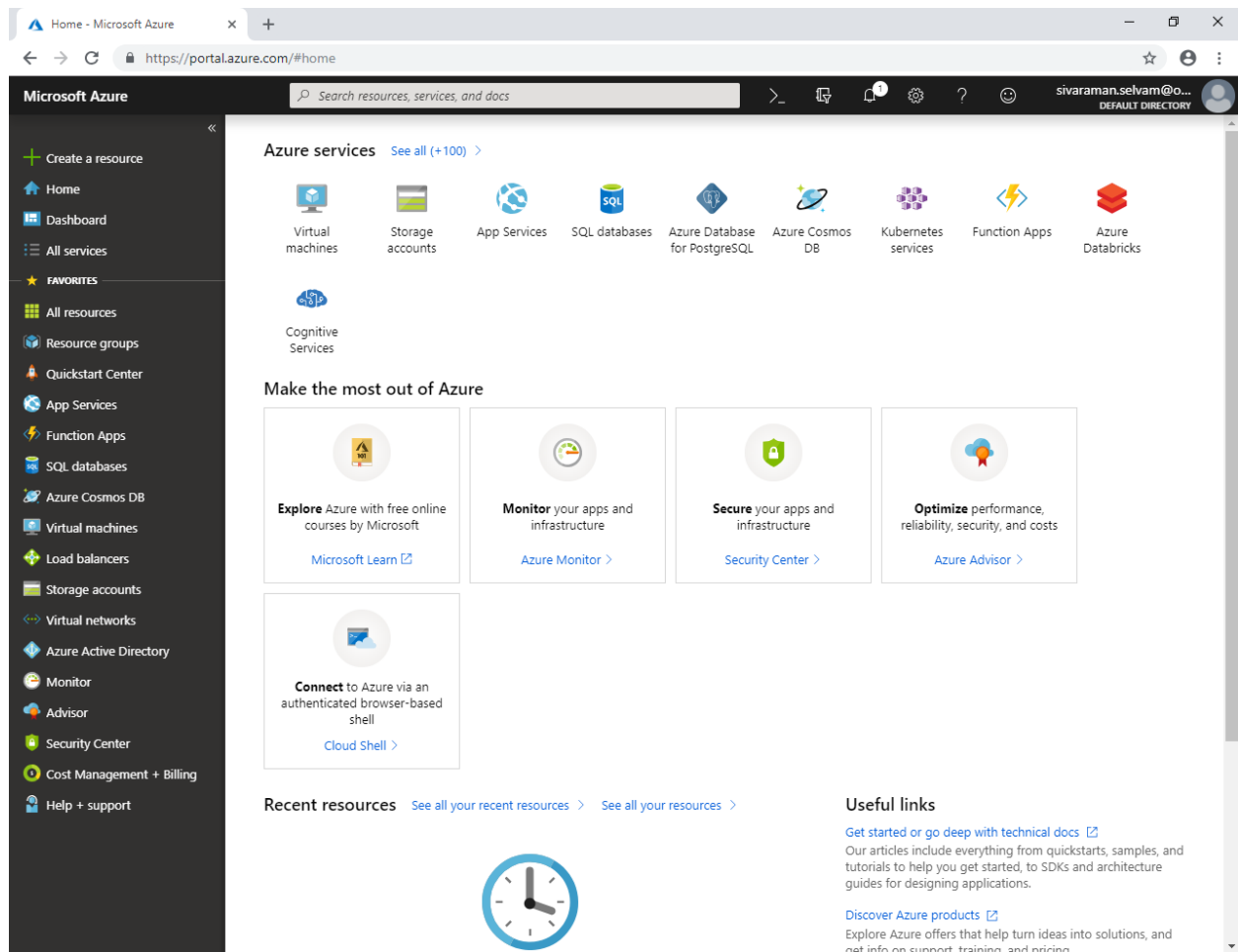
Login to <https://portal.azure.com> with outlook login credentials.

Click option button on **“Dashboard”** and click **“Save”**.



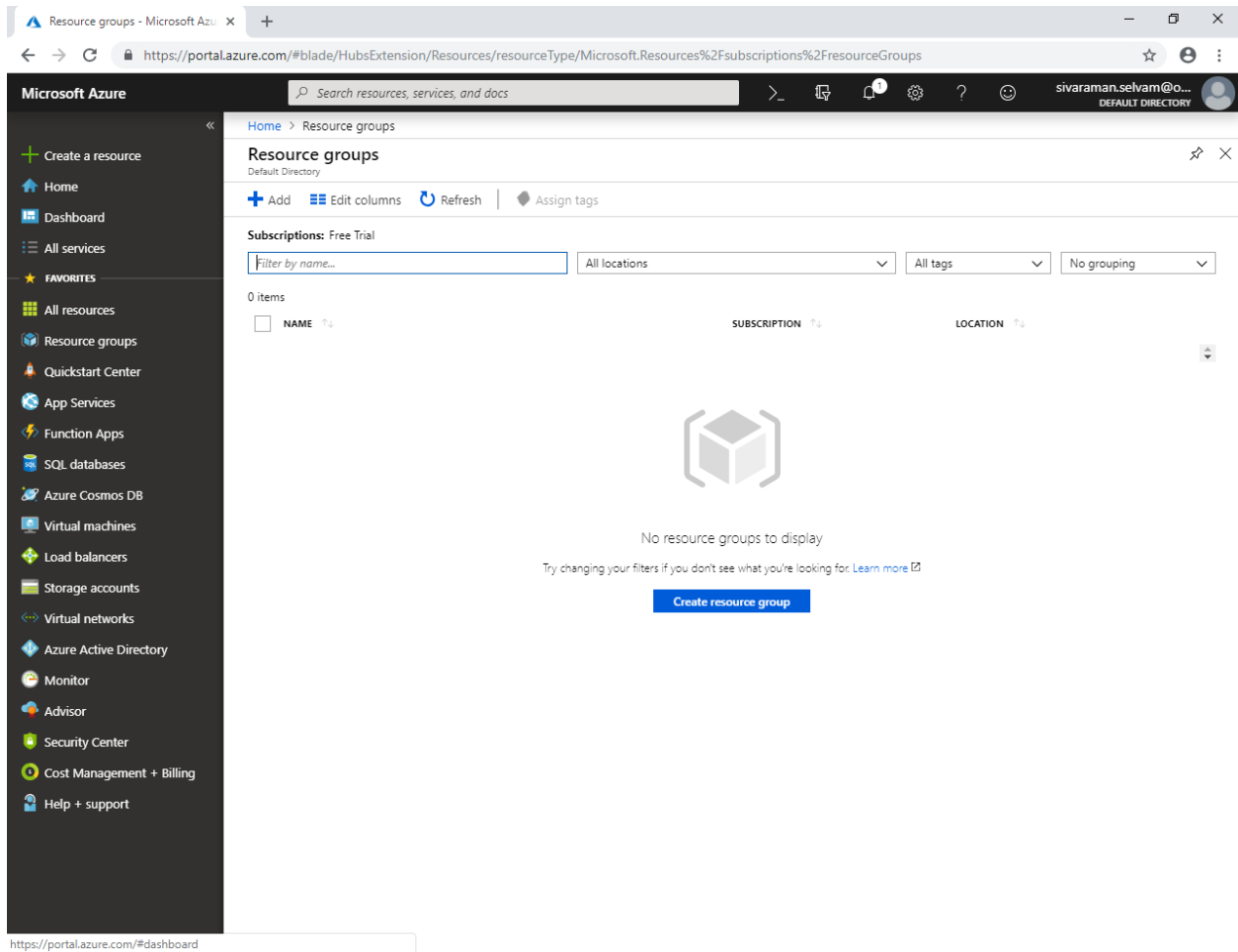
Now we have required to create a resource group first to create a Virtual machine in Azure.

Click “Resource Groups” in Left side to create a “Resource Group”.



In Resource groups,

Click **"Add"** to create a new Resource groups.



Resource groups - Microsoft Azure

Home > 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

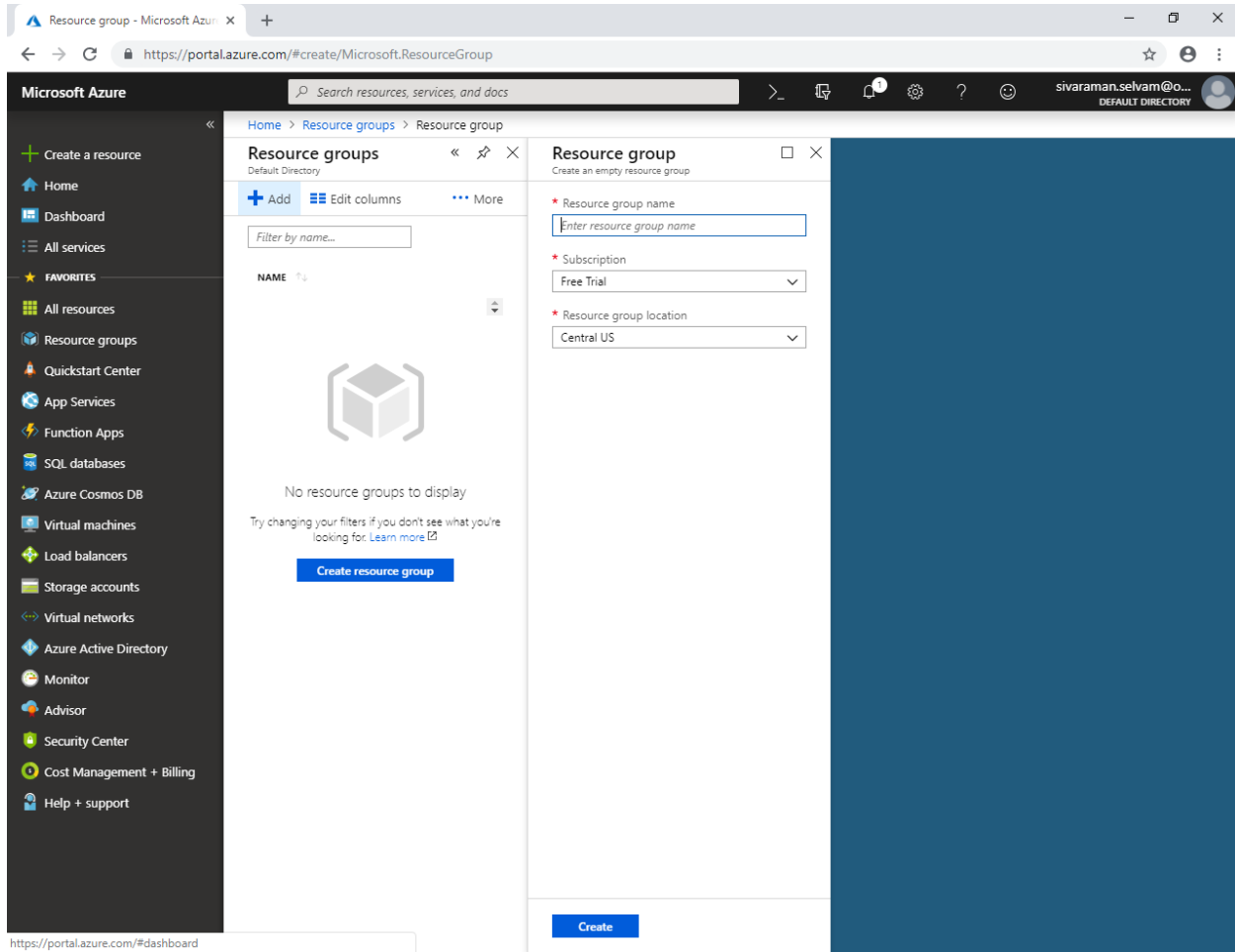
NAME	SUBSCRIPTION	LOCATION
------	--------------	----------

No resource groups to display

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

Create resource group

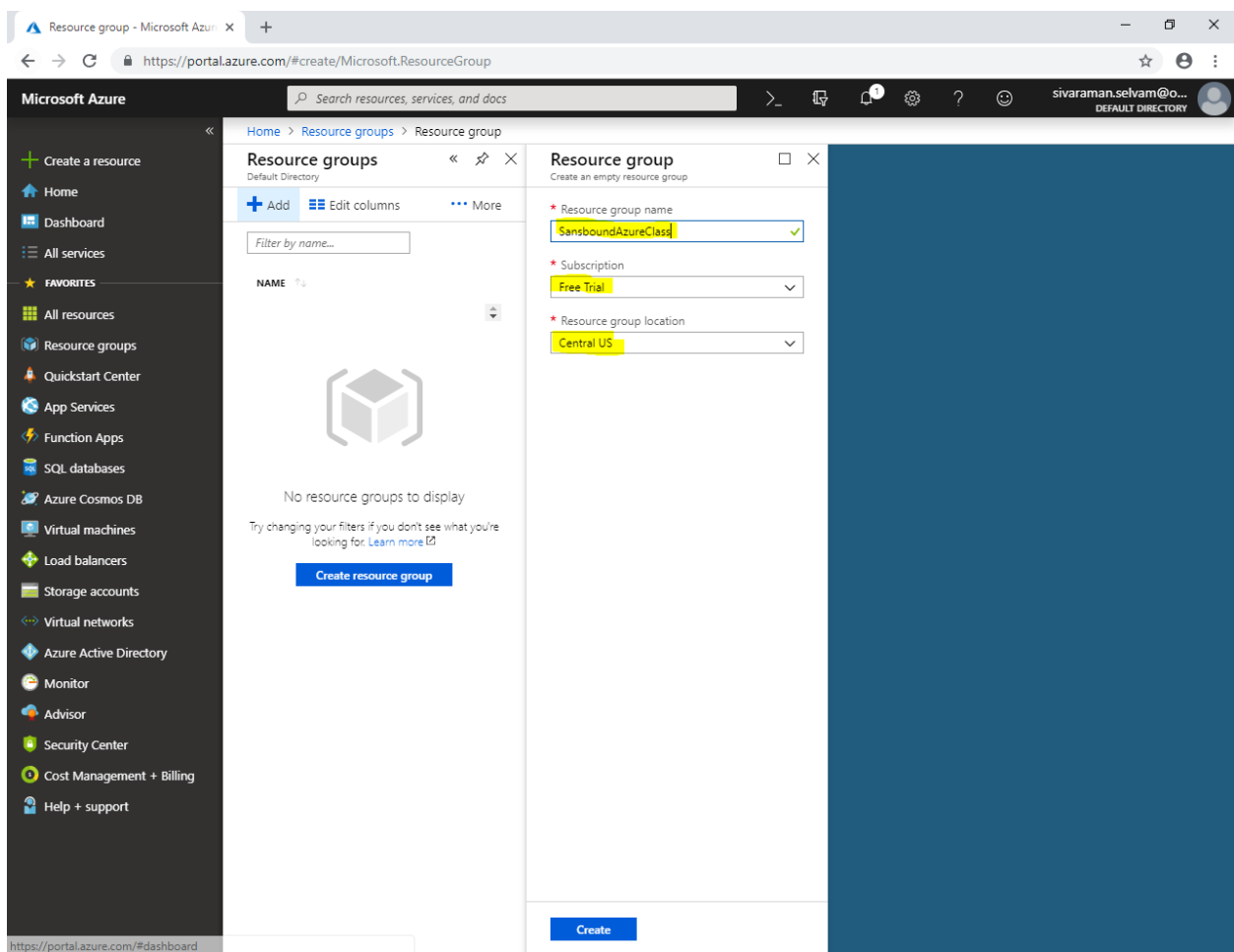
While creating Resource group it has required **“Resource group name”**



Type “Resource Group” name as **“SansboundAzureClass”**.

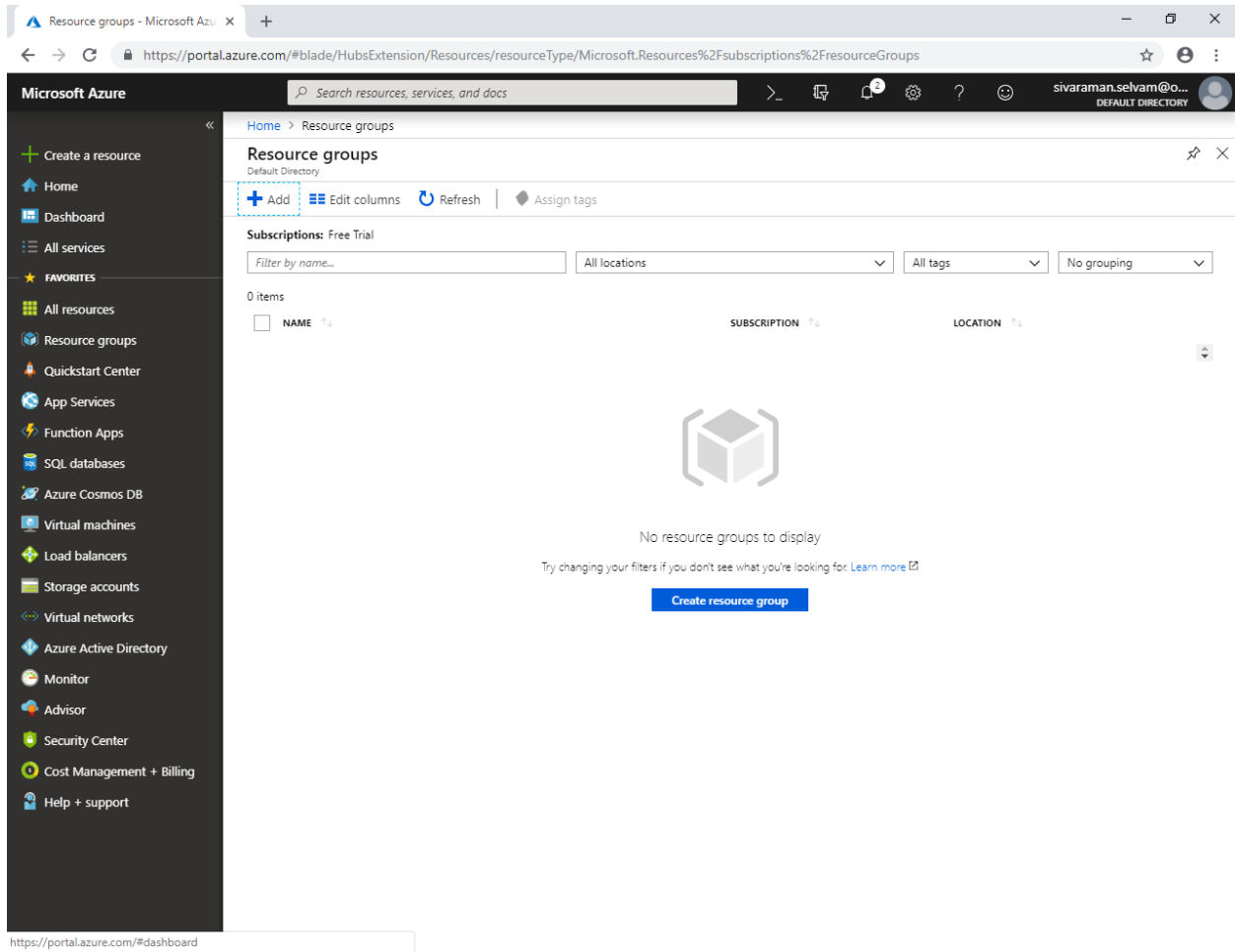
“Subscription” should be as **“Free Trial”**.

“Resource group Location” should be as your choice / business requirement. As of now I will leave this as default.



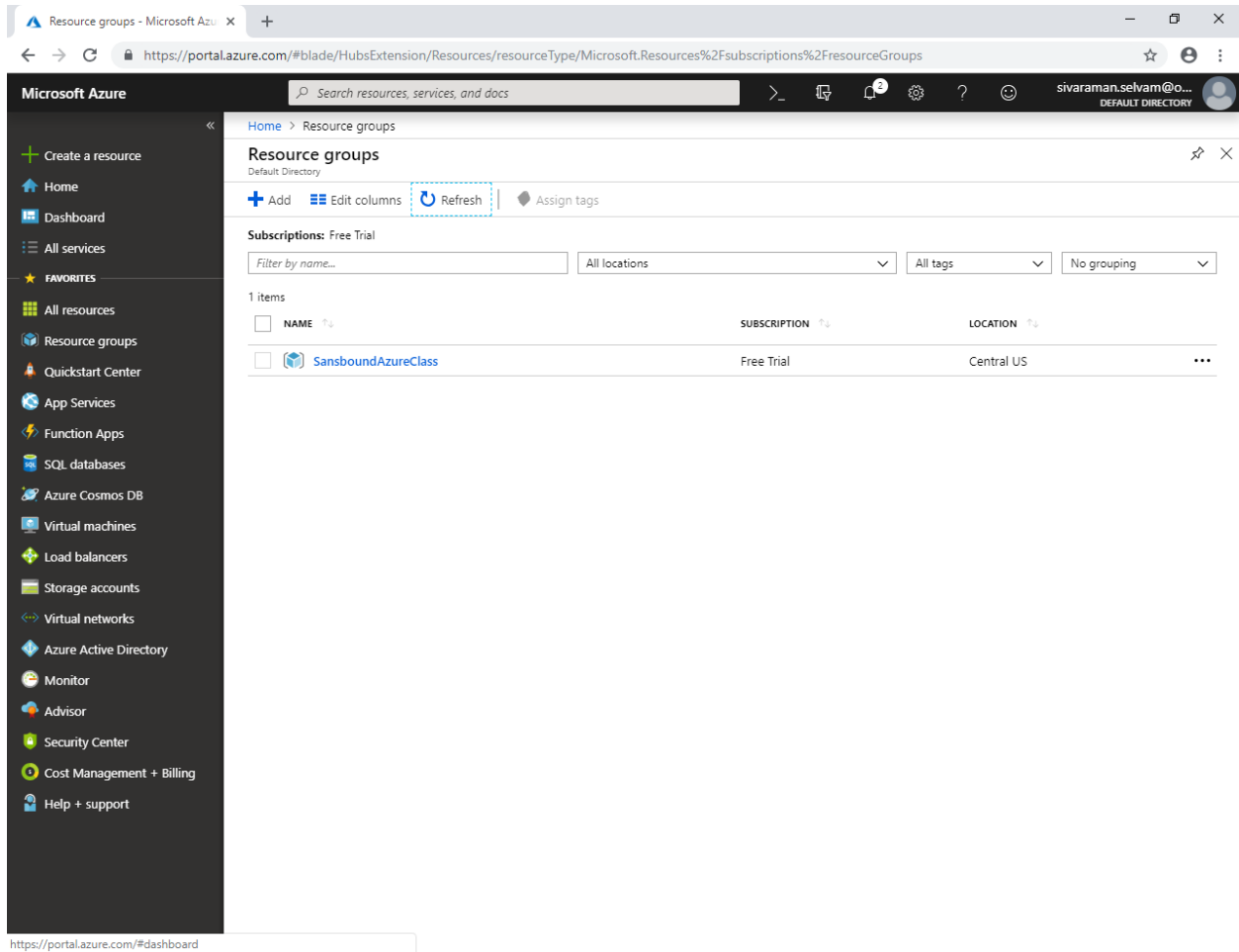
Then click **“Create”** to create the “Resource Group”.

Click “Refresh” to get the Resource group which we have created.



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", and "FAVORITES". The main content area is titled "Resource groups" and shows a message: "No resource groups to display. Try changing your filters if you don't see what you're looking for. Learn more". Below this message is a blue button labeled "Create resource group". The top bar shows the user's profile and the search bar.

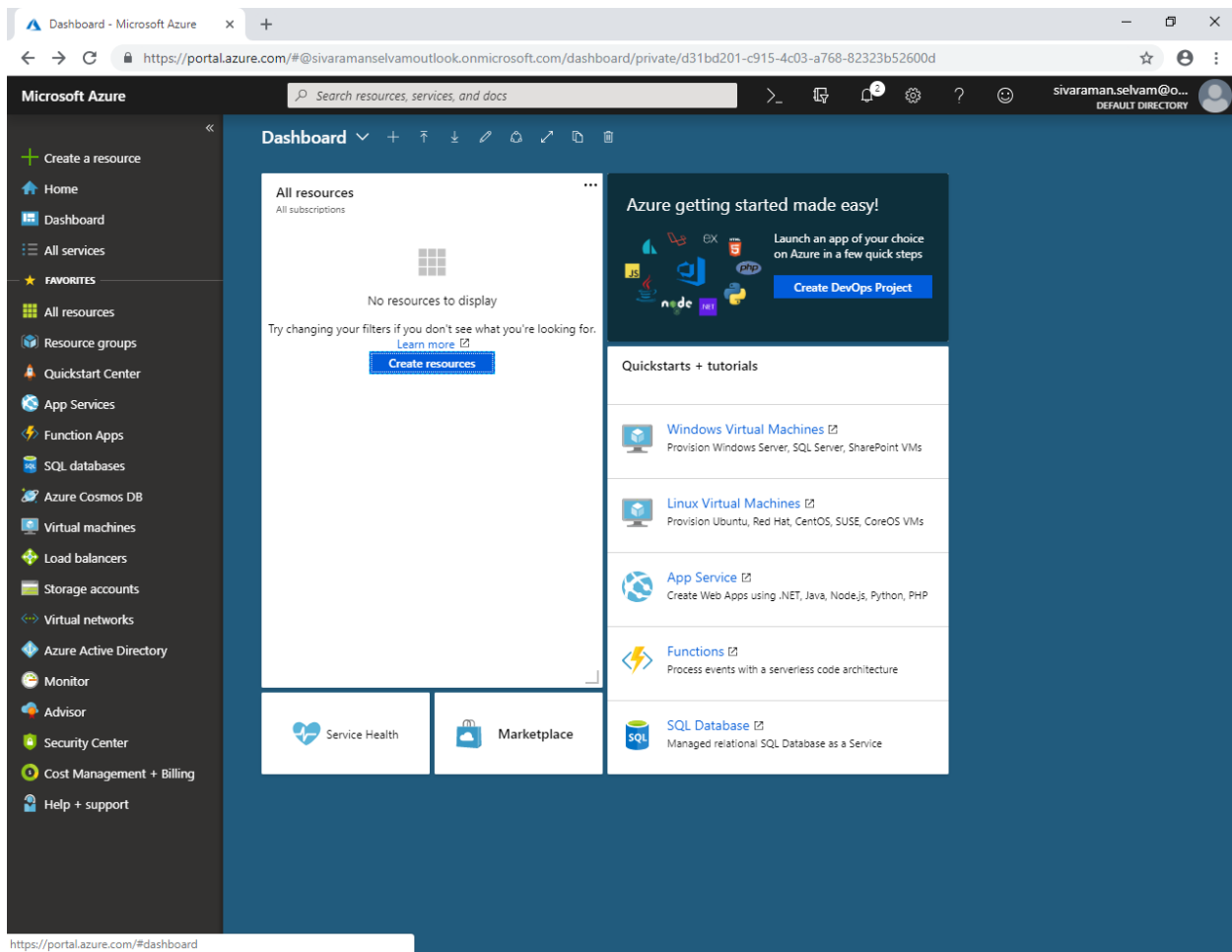
Now you are able to see the “Resource Group” which you have created as “SansboundAzureClass”.



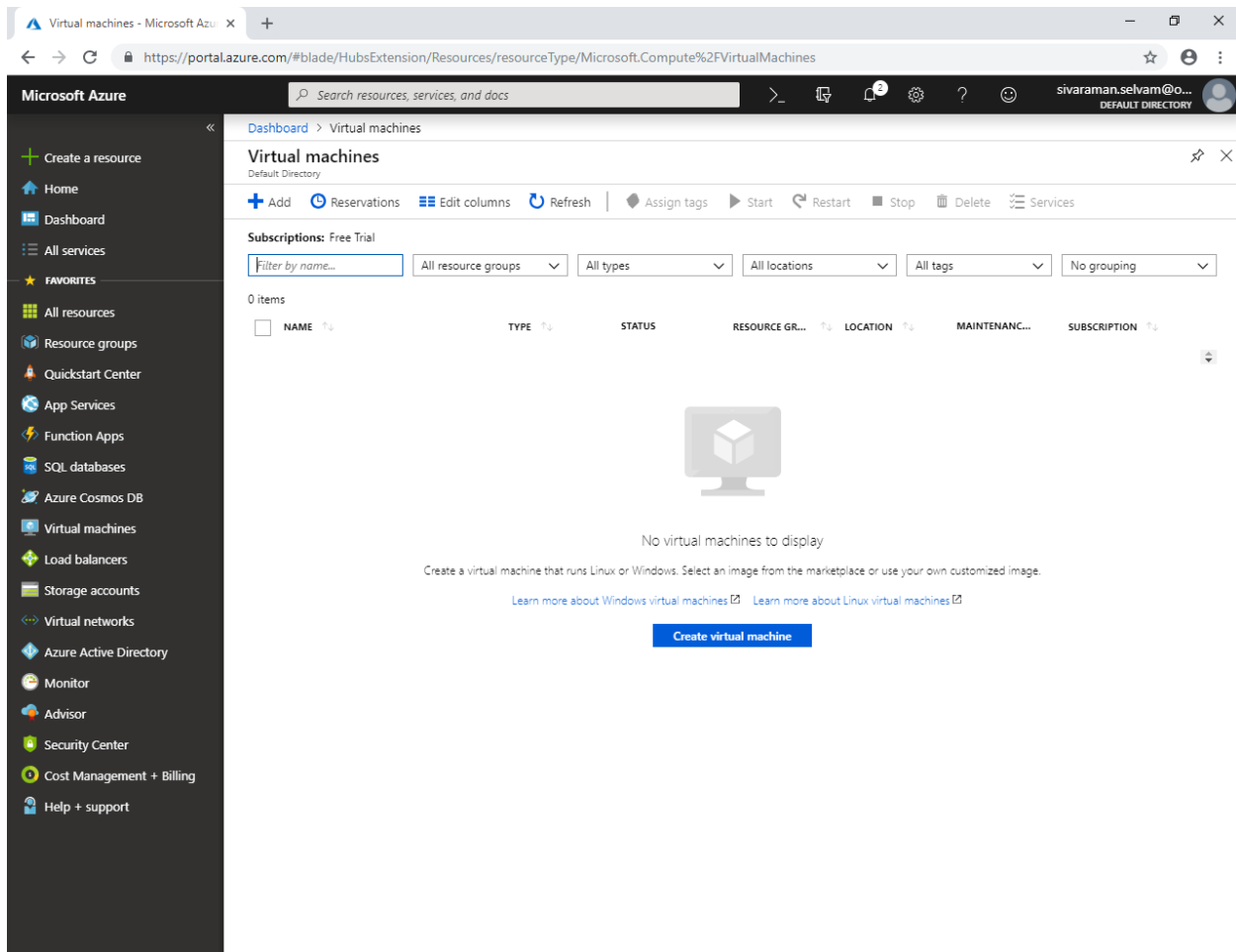
The screenshot shows the Microsoft Azure portal interface. The left sidebar contains navigation options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area is titled 'Resource groups' and shows a table with one item: 'SansboundAzureClass'. The table has columns for 'NAME', 'SUBSCRIPTION', and 'LOCATION'. The 'Refresh' button is highlighted with a dashed blue box.

NAME	SUBSCRIPTION	LOCATION
SansboundAzureClass	Free Trial	Central US

In Dashboard, click “Virtual machines” in Left side under Favourites.



In “Virtual machines” Click “Add” to create new virtual machine.



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', and 'FAVORITES'. The main content area is titled 'Virtual machines' and shows a list of virtual machines. The list is empty, with a message stating 'No virtual machines to display'. Below this message, there is a button labeled 'Create virtual machine'.

Virtual machines - Microsoft Azure

Search resources, services, and docs

Dashboard > Virtual machines

Virtual machines

Default Directory

+ Add Reservations Edit columns Refresh Assign tags Start Restart Stop Delete Services

Subscriptions: Free Trial

Filter by name... All resource groups All types All locations All tags No grouping

0 items

NAME TYPE STATUS RESOURCE GR... LOCATION MAINTENANC... SUBSCRIPTION

No virtual machines to display

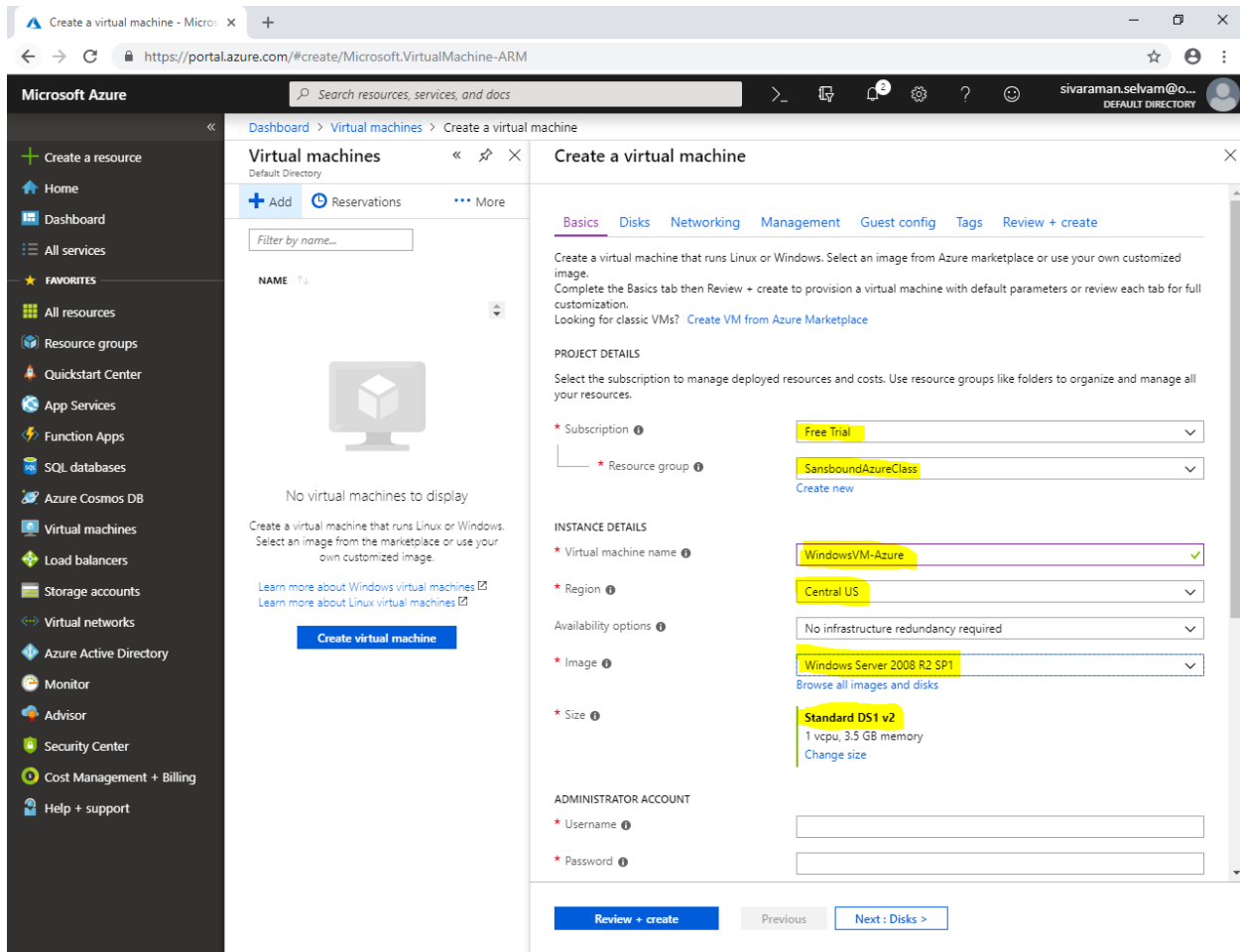
Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

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

Create virtual machine

While creating Virtual Machine we have required to provide below mentioned details

- Select the "Subscription" as "Free Trial".
- Select the "Resource Group" as "SansboundAzureClass".
- Specify the Virtual machine name as "WindowsVM-Azure".
- Specify the region as your business requirement, i will leave default region at this stage.
- Select the Image as "Windows Server 2008 R2 SP1".
- By default Virtual machine size will be selected as **Standard DS1 V2** (with 1 vCPU & 3.5 GB RAM). But we need to select Free Trial Virtual machine Type **B1S**.

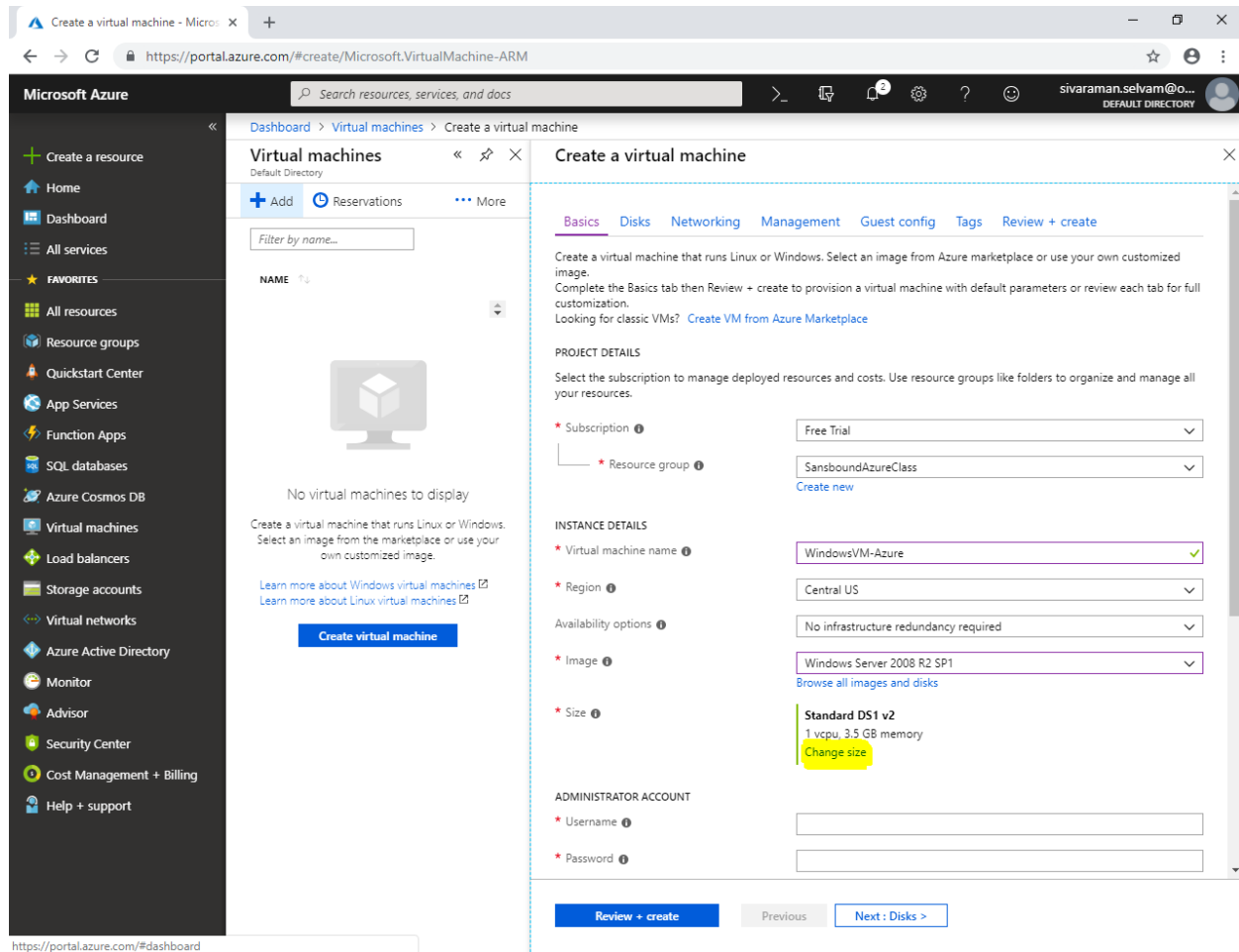


The screenshot displays the 'Create a virtual machine' wizard in the Microsoft Azure portal. The 'Basics' tab is active, showing the following configuration:

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

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

In Size, click “Change Size”



The screenshot shows the Microsoft Azure portal interface. On the left is the navigation pane with options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main area is titled 'Virtual machines' and shows 'No virtual machines to display'. A 'Create virtual machine' button is visible. On the right, the 'Create a virtual machine' wizard is open, with the 'Basics' tab selected. The 'Subscription' is 'Free Trial', 'Resource group' is 'SansboundAzureClass', 'Virtual machine name' is 'WindowsVM-Azure', 'Region' is 'Central US', 'Availability options' is 'No infrastructure redundancy required', and 'Image' is 'Windows Server 2008 R2 SP1'. The 'Size' dropdown is open, showing 'Standard DS1 v2' with '1 vcpu, 3.5 GB memory'. A yellow box highlights the 'Change size' link next to the size selection.

Microsoft Azure

Search resources, services, and docs

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

Basics Disks Networking Management Guest config Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Looking for classic VMs? [Create VM from Azure Marketplace](#)

PROJECT DETAILS

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

* Subscription Free Trial

* Resource group SansboundAzureClass

Create new

INSTANCE DETAILS

* Virtual machine name WindowsVM-Azure

* Region Central US

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

Review + create Previous Next : Disks >

Select the Virtual size as Standard “B1s” then click “Select” button in bottom.

Select a VM size - Microsoft Azure

Search resources, services, and docs

Search by VM size... Clear all filters

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

Showing 12 of 157 VM sizes. Subscription: Free Trial Region: Central US Current size: Standard_DS1_v2

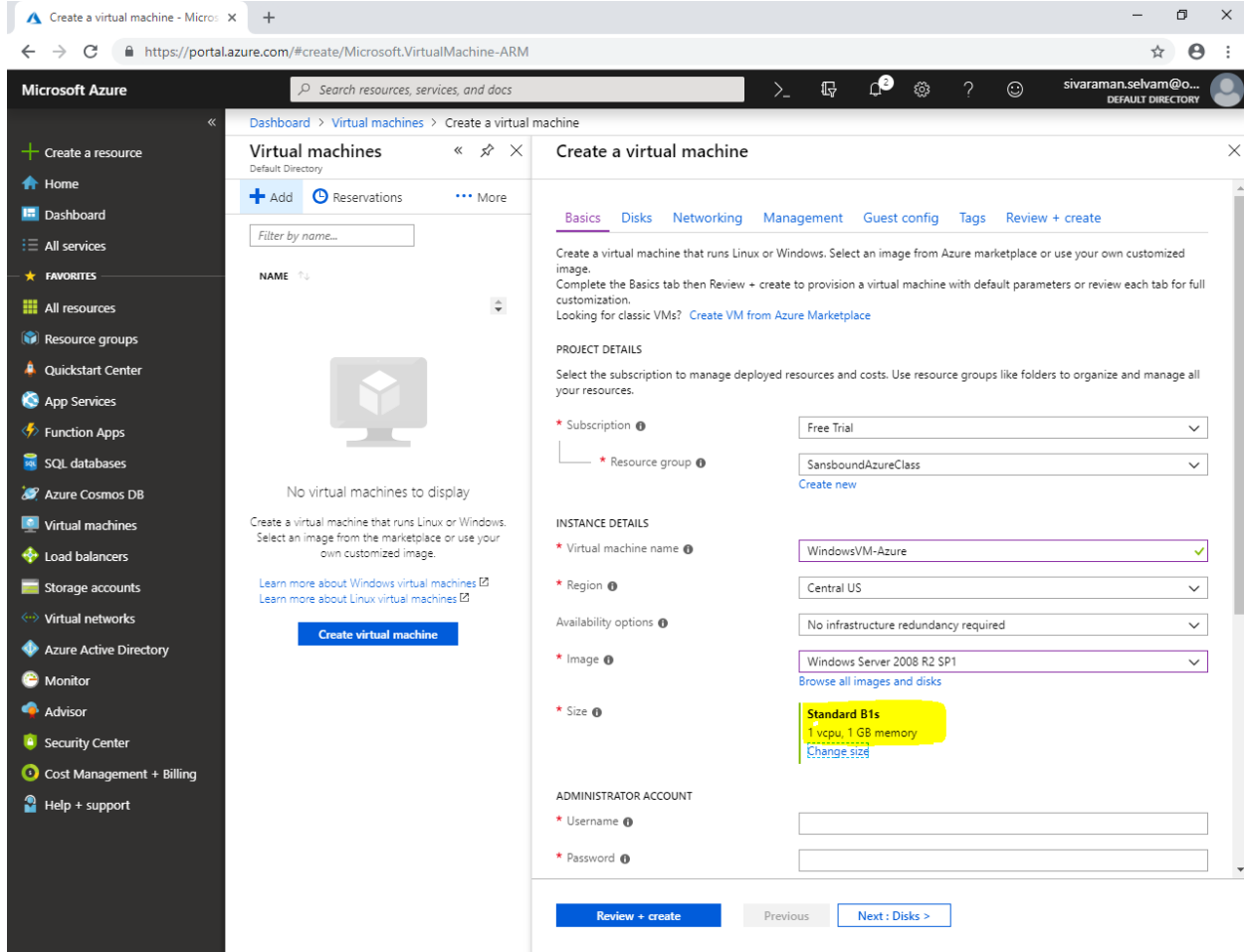
VM SIZE	OFFERING	FAMILY	VCPUS	RAM (GB)	DATA DISKS	MAX IOPS	TEMPORARY STOR...	PREMIUM DISK SU...	COST/MONTH (ESTI...
B1ms	Standard	General purpose	1	2	2	800	4 GB	Yes	₹1,480.19
B1s	Standard	General purpose	1	1	2	400	4 GB	Yes	₹885.16
B2ms	Standard	General purpose	2	8	4	2400	16 GB	Yes	₹5,901.07
B2s	Standard	General purpose	2	4	4	1600	8 GB	Yes	₹3,540.64
B4ms	Standard	General purpose	4	16	8	3600	32 GB	Yes	₹11,851.32
D2s_v3	Standard	General purpose	2	8	4	3200	16 GB	Yes	₹10,376.05
D4s_v3	Standard	General purpose	4	16	8	6400	32 GB	Yes	₹20,752.11
DS1_v2	Standard	General purpose	1	3.5	4	3200	7 GB	Yes	₹6,196.13
DS2_v2	Standard	General purpose	2	7	8	6400	14 GB	Yes	₹12,392.25
DS3_v2	Standard	General purpose	4	14	16	12800	28 GB	Yes	₹24,784.51
DS2_v2	Promo	General purpose	2	7	8	6400	14 GB	Yes	₹12,392.25
DS3_v2	Promo	General purpose	4	14	16	12800	28 GB	Yes	₹24,784.51

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 any 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

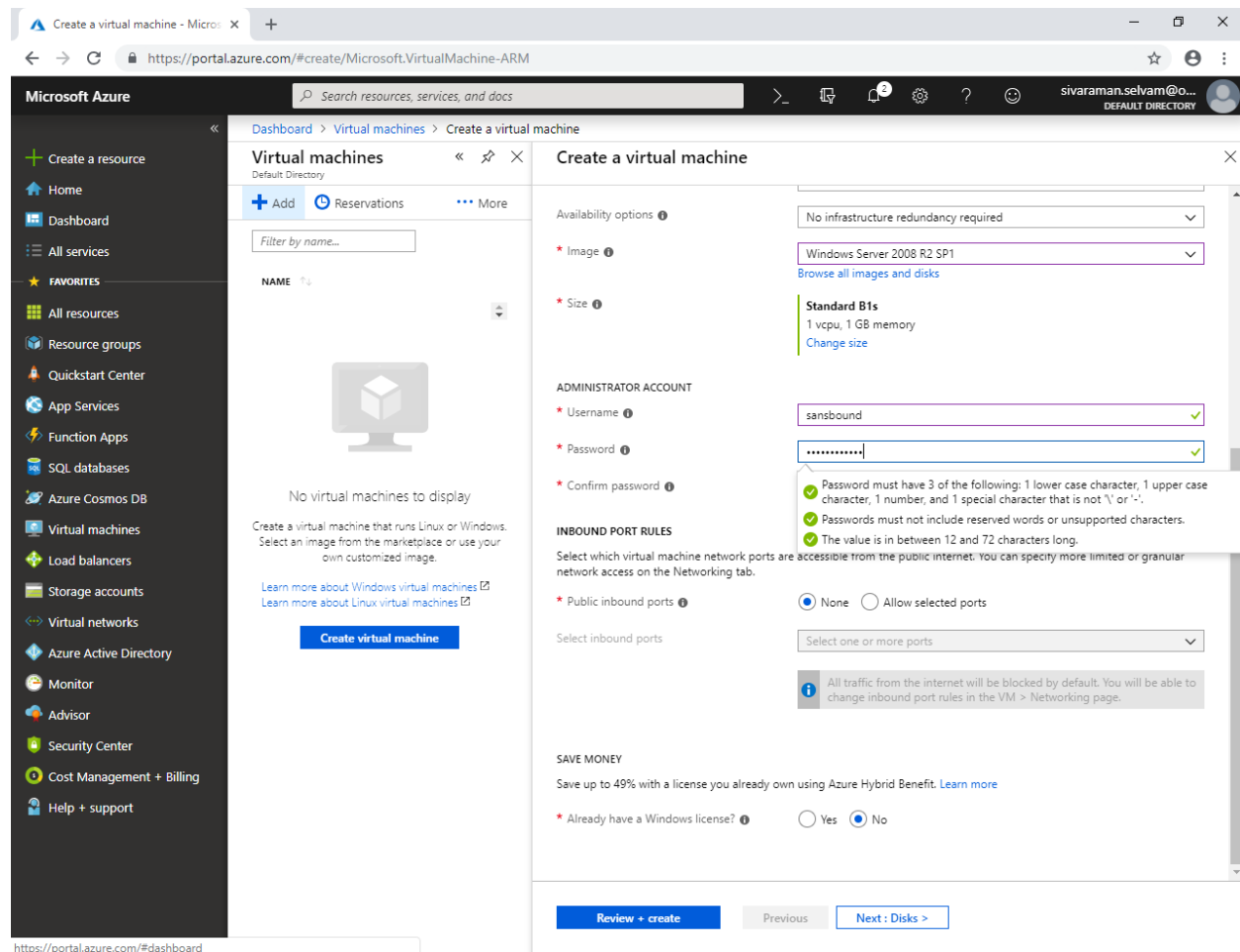
You need to ensure that VM Size is “Standard B1s”.



The screenshot shows the Microsoft Azure portal interface for creating a new virtual machine. The left sidebar contains the navigation menu with options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area is titled 'Virtual machines' and shows a 'Create a virtual machine' button. The right pane displays the 'Create a virtual machine' wizard with the 'Basics' tab selected. The 'Subscription' is set to 'Free Trial' and the 'Resource group' is 'SansboundAzureClass'. Under 'INSTANCE DETAILS', the 'Virtual machine name' is 'WindowsVM-Azure', the 'Region' is 'Central US', and the 'Image' is 'Windows Server 2008 R2 SP1'. The 'Size' dropdown is set to 'Standard B1s', which is highlighted in yellow. The 'Administrator account' section has fields for 'Username' and 'Password'. At the bottom, there are buttons for 'Review + create', 'Previous', and 'Next: Disks >'.

In “Administrator Account”, I will type type username which has required built-in administrator privilege. I have type as “**sansbound**”. You can specify the user name as per your wish.

In password, password must have 1 upper case character , 1 lower case character and and 1 number and 1 special character. Also password length should be minimum 12 characters maximum 72 characters.



Microsoft Azure

Search resources, services, and docs

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

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?

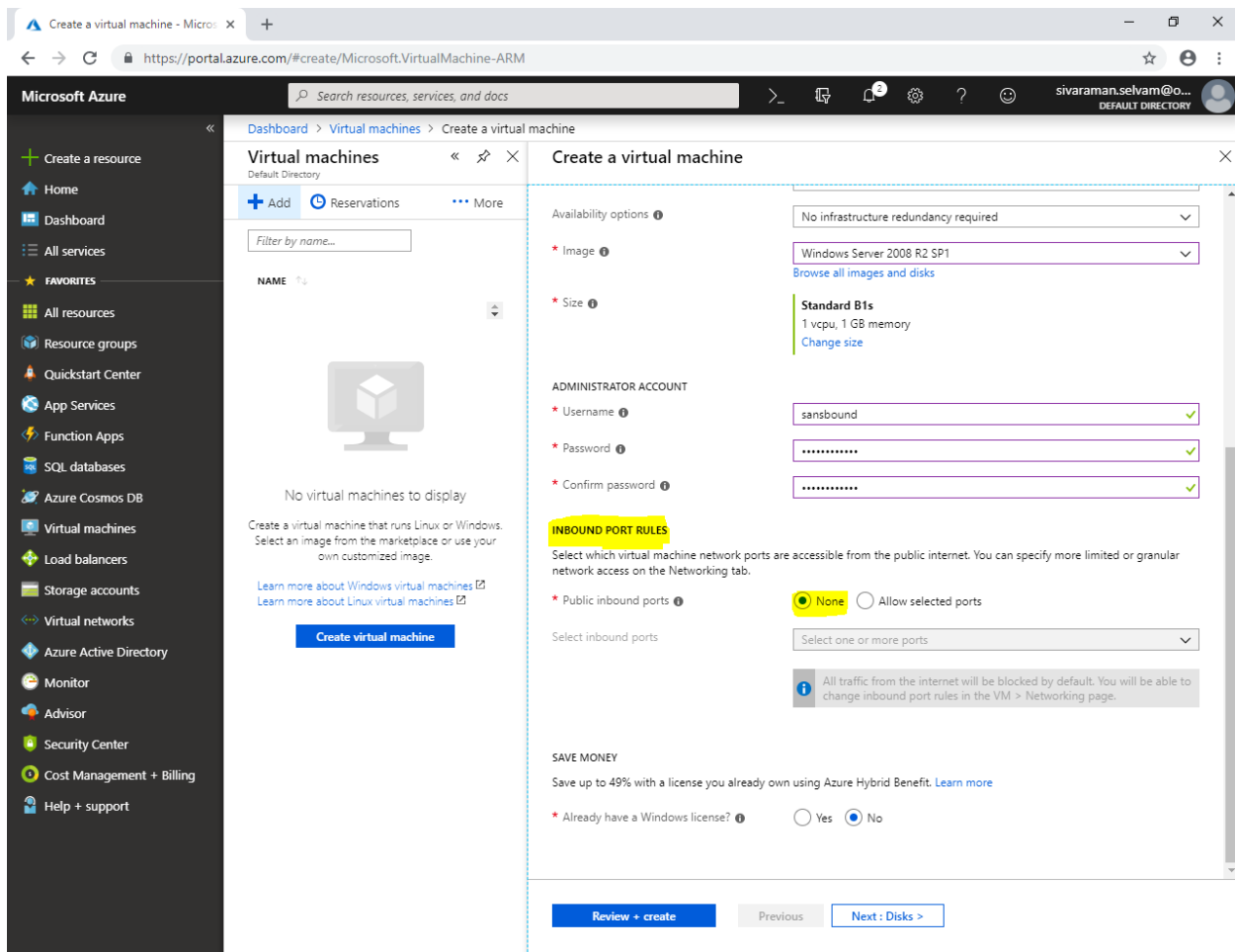
☐ Yes ☒ No

Review + create

Previous

Next : Disks >

In “Inbound Port Rules”, by default it has been set as “None”.



The screenshot displays the Microsoft Azure portal interface for creating a virtual machine. The left sidebar shows the navigation menu with options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area is titled 'Virtual machines' and 'Create a virtual machine'. The 'INBOUND PORT RULES' section is highlighted, showing the 'None' option selected for public inbound ports. The 'ADMINISTRATOR ACCOUNT' section shows the username 'sansbound' and password fields. The 'SAVE MONEY' section shows the 'Already have a Windows license?' option set to 'No'.

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 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 | Select one or more ports

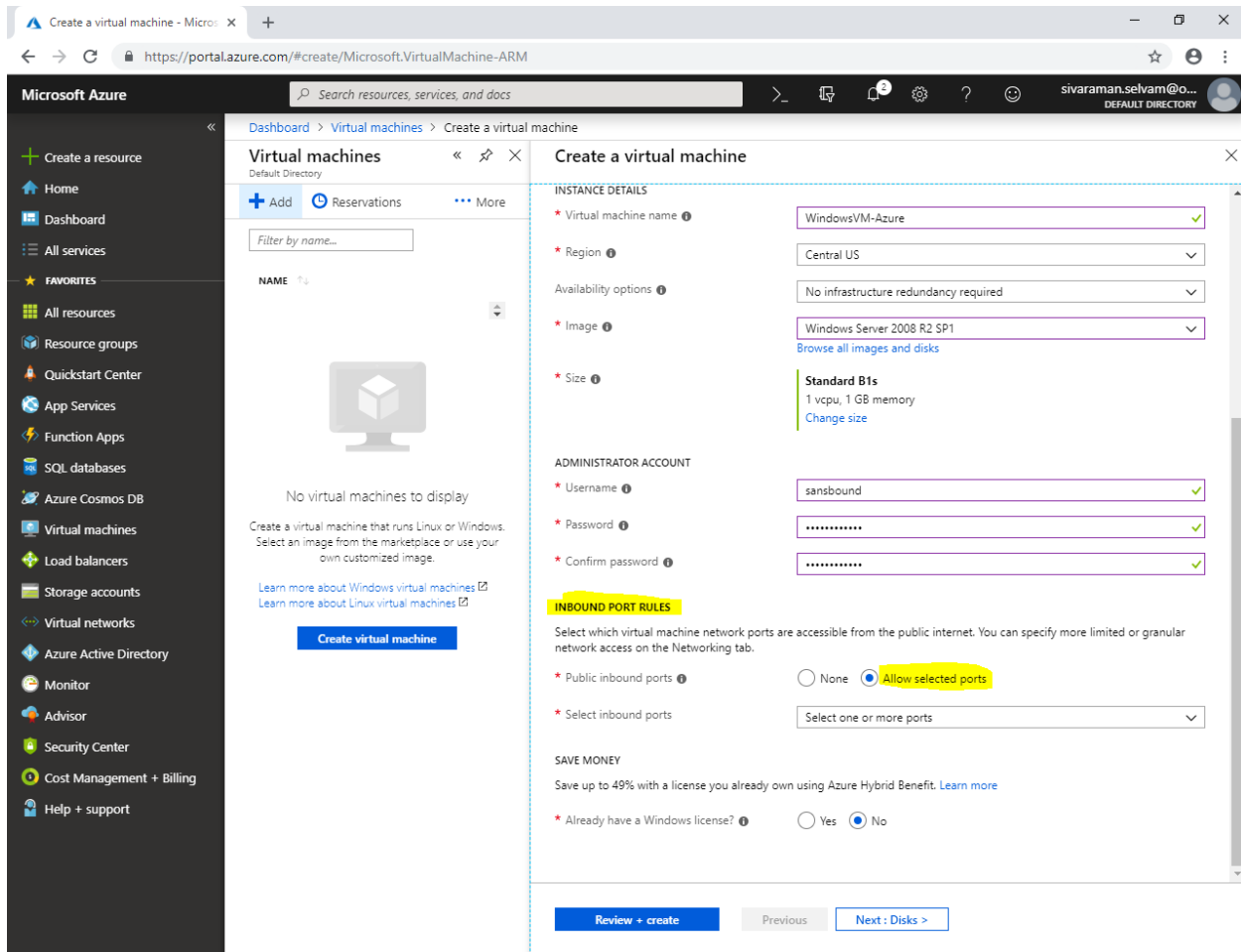
SAVE MONEY

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 >](#)

But we have required to allow specific ports by click **“Allow Selected Ports”** manually.



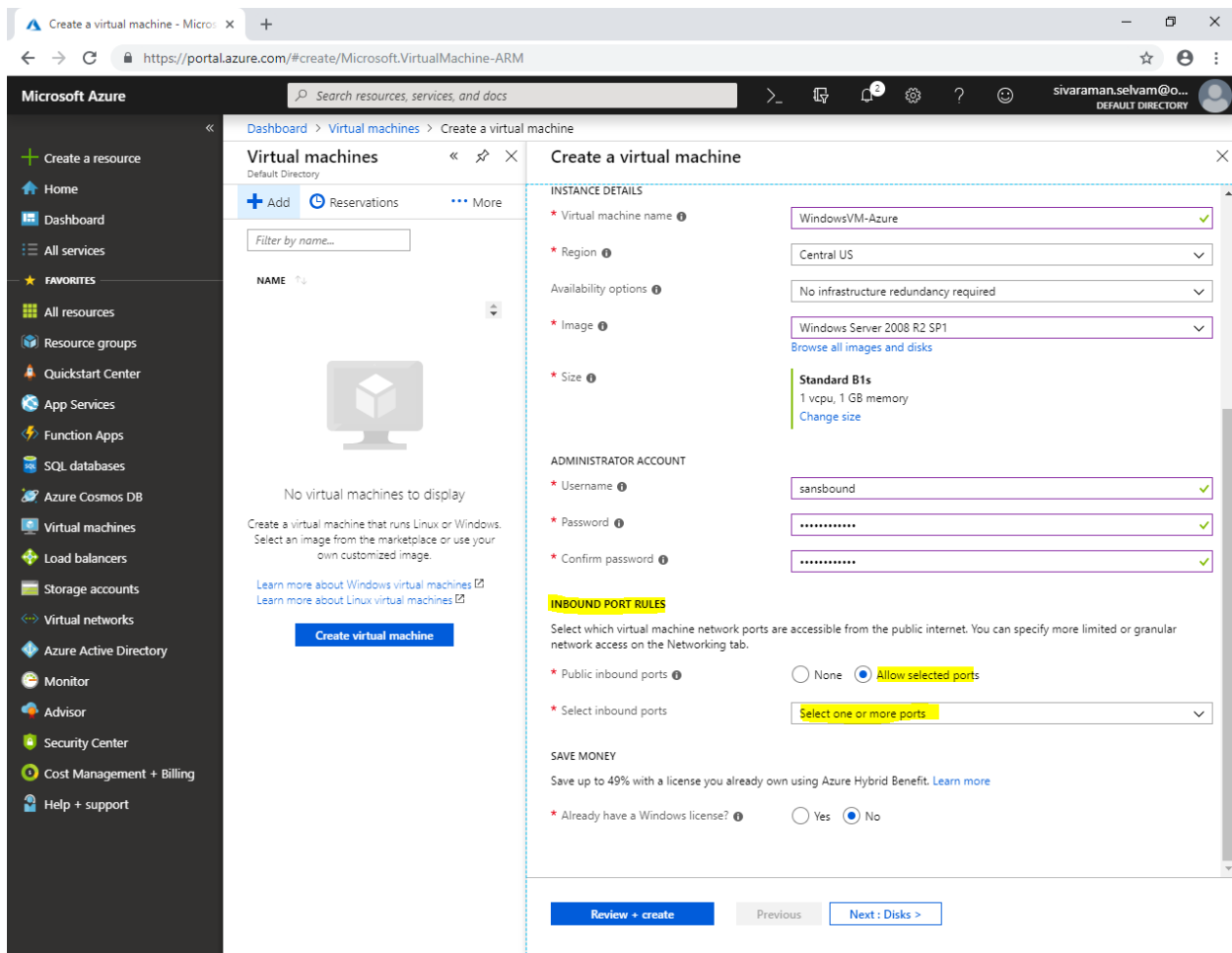
The screenshot displays the Microsoft Azure portal interface for creating a virtual machine. The left sidebar shows the navigation menu with options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area is titled 'Virtual machines' and includes a 'Create a virtual machine' button. The right pane shows the 'Create a virtual machine' wizard with the following sections:

- INSTANCE DETAILS**
 - Virtual machine name: WindowsVM-Azure
 - Region: Central US
 - Availability options: No infrastructure redundancy required
 - Image: Windows Server 2008 R2 SP1
 - Size: Standard B1s (1 vcpu, 1 GB memory)
- ADMINISTRATOR ACCOUNT**
 - Username: sansbound
 - Password: [masked]
 - Confirm password: [masked]
- INBOUND PORT RULES**
 - Public inbound ports: ☒ Allow selected ports
 - Select inbound ports: Select one or more ports
- SAVE MONEY**
 - Already have a Windows license?: ☒ No

At the bottom, there are buttons for 'Review + create', 'Previous', and 'Next: Disks >'.

In “Inbound Port Rules”, click “Allow Selected Ports”.

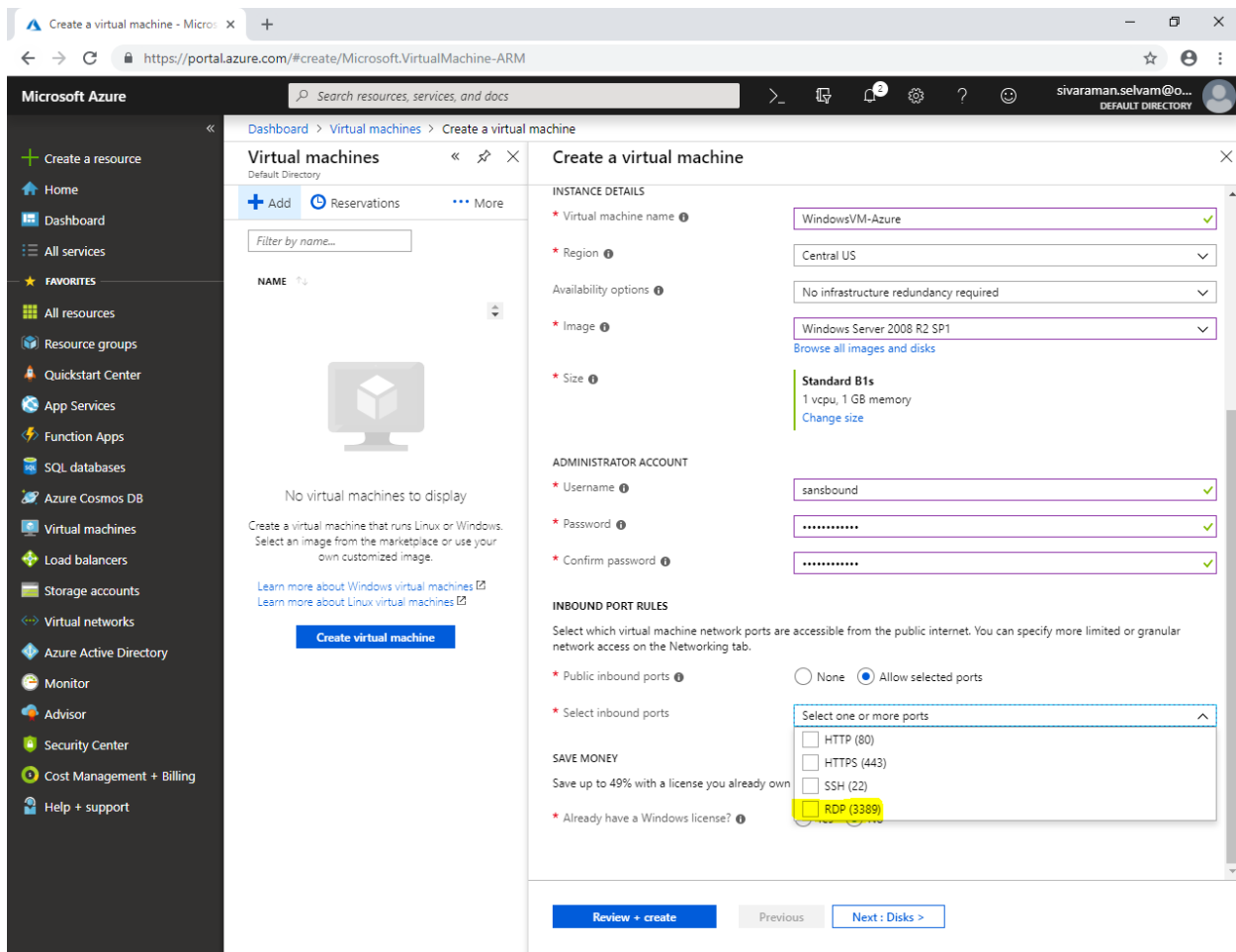
Then click “Select one or more ports” drop down box.



The screenshot displays the Microsoft Azure portal interface for creating a virtual machine. The left sidebar shows the navigation menu with options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area is titled 'Virtual machines' and shows a 'Create a virtual machine' wizard. The 'INSTANCE DETAILS' section includes fields for 'Virtual machine name' (WindowsVM-Azure), 'Region' (Central US), 'Availability options' (No infrastructure redundancy required), 'Image' (Windows Server 2008 R2 SP1), and 'Size' (Standard B1s). The 'ADMINISTRATOR ACCOUNT' section includes fields for 'Username' (sansbound), 'Password', and 'Confirm password'. The 'INBOUND PORT RULES' section is highlighted, showing the 'Allow selected ports' option selected. The 'Select one or more ports' dropdown is also highlighted. The 'SAVE MONEY' section includes a checkbox for 'Already have a Windows license?' (No).

As of now, I have created Windows Virtual machine for that I have required **Port 3389 (RDP)** to Allow for access the server remotely.

You need to check the **“RDP (3389)”** in Inbound Rule.



The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The 'INBOUND PORT RULES' section is expanded, showing a list of ports to select. The 'RDP (3389)' port is highlighted with a yellow box. The wizard includes sections for 'INSTANCE DETAILS', 'ADMINISTRATOR ACCOUNT', and 'INBOUND PORT RULES'.

INSTANCE DETAILS

- Virtual machine name: WindowsVM-Azure
- Region: Central US
- Availability options: No infrastructure redundancy required
- Image: Windows Server 2008 R2 SP1
- Size: Standard B1s (1 vcpu, 1 GB memory)

ADMINISTRATOR ACCOUNT

- Username: sansbound
- Password: [Redacted]
- Confirm password: [Redacted]

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

- ☐ HTTP (80)
- ☐ HTTPS (443)
- ☐ SSH (22)
- ☒ RDP (3389)

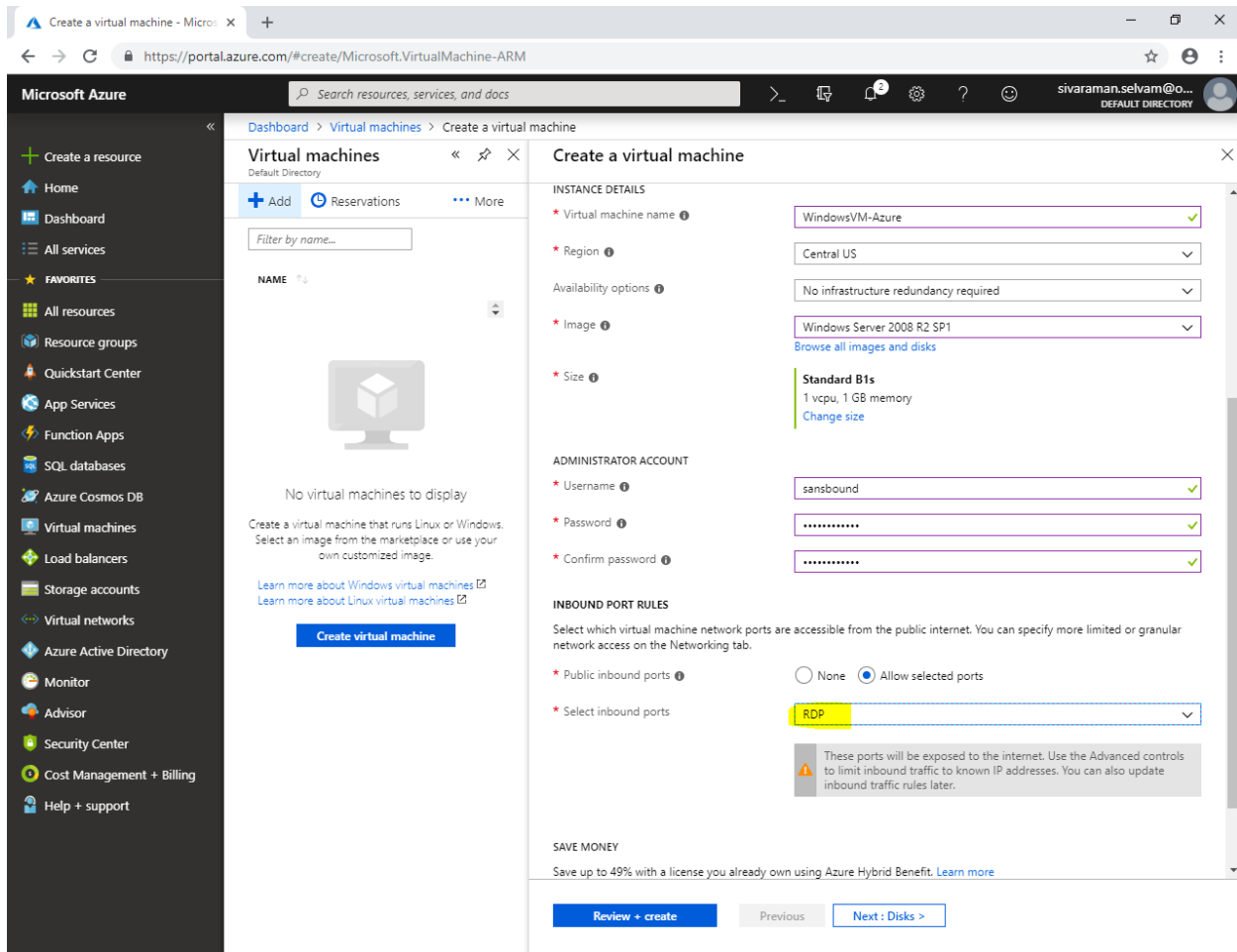
SAVE MONEY

Save up to 49% with a license you already own

Already have a Windows license? ☐

Buttons: Review + create, Previous, Next: Disks >

As of now, we have allowed only **RDP (3389)** port to access the Windows Server through remotely.



Create a virtual machine - Micro: 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

+ 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

INSTANCE DETAILS

* Virtual machine name WindowsVM-Azure ✓

* Region Central US

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

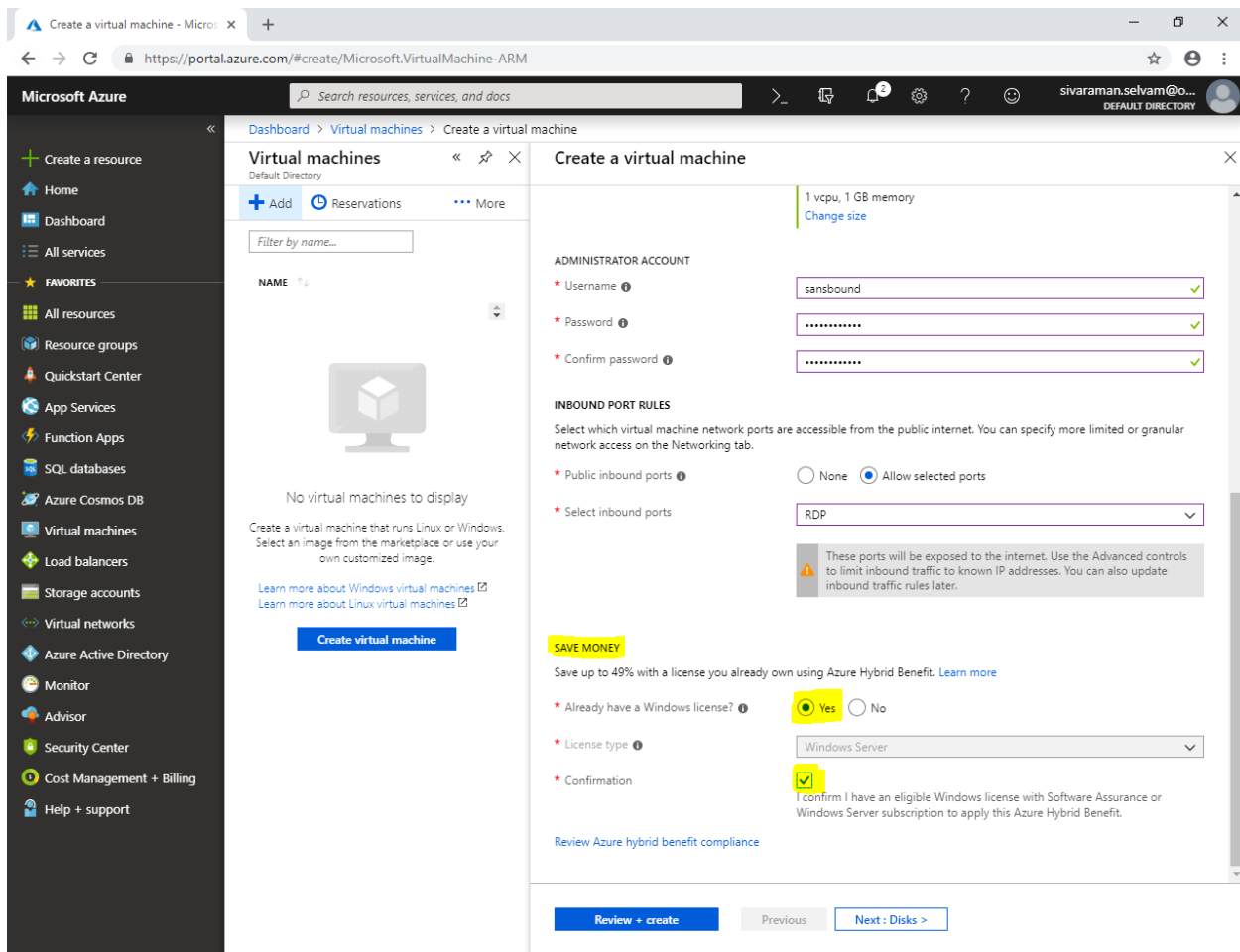
Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

Review + create Previous Next : Disks >

In Save Money,

Click **“Yes”** that you have already have Windows license.

Also in **“Confirmation”** click the Check box.



Create a virtual machine - Micro: X +

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

Microsoft Azure Search resources, services, and docs

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

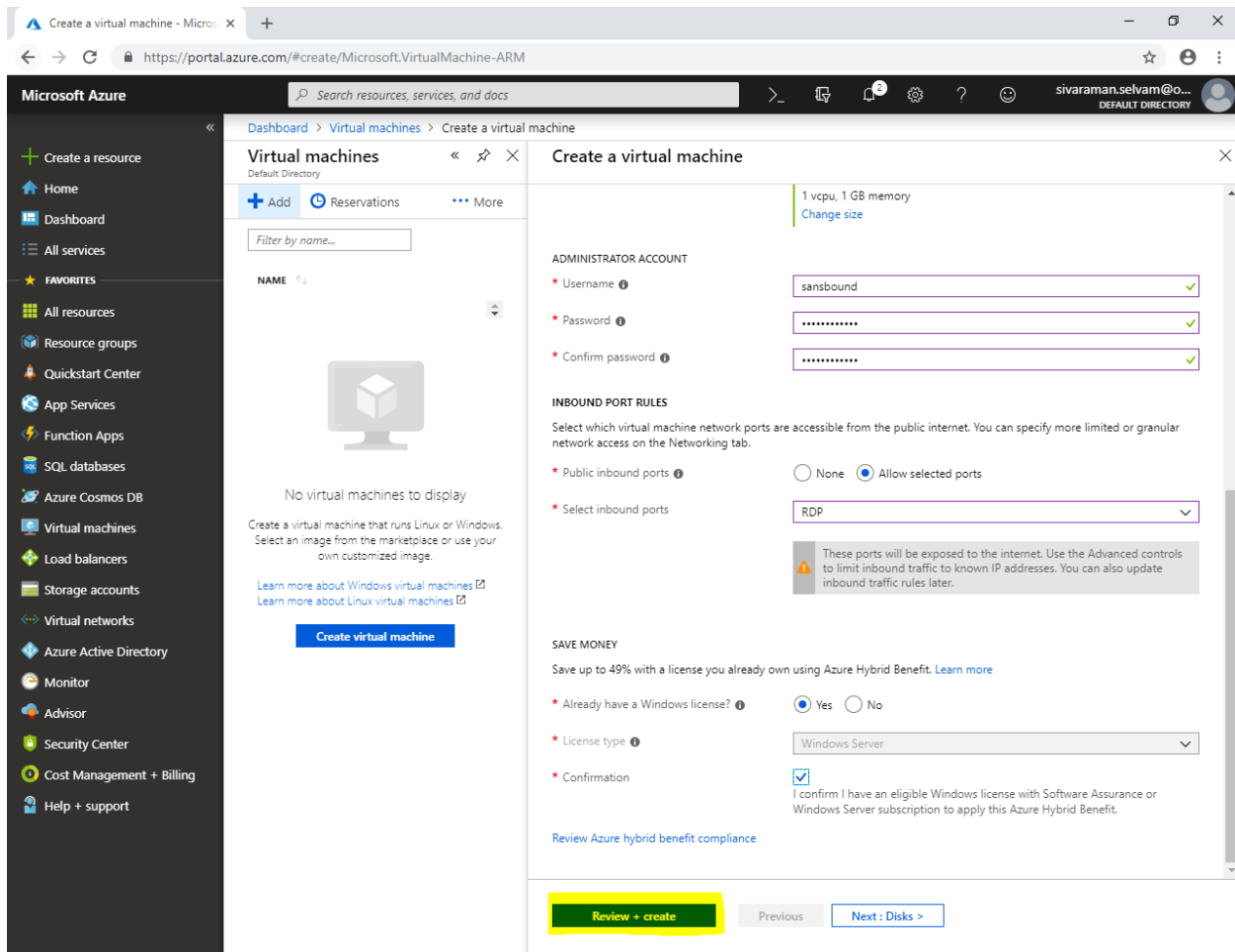
* Confirmation

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 >

At this stage, I will click **“Review + Create”**.



Microsoft Azure

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

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

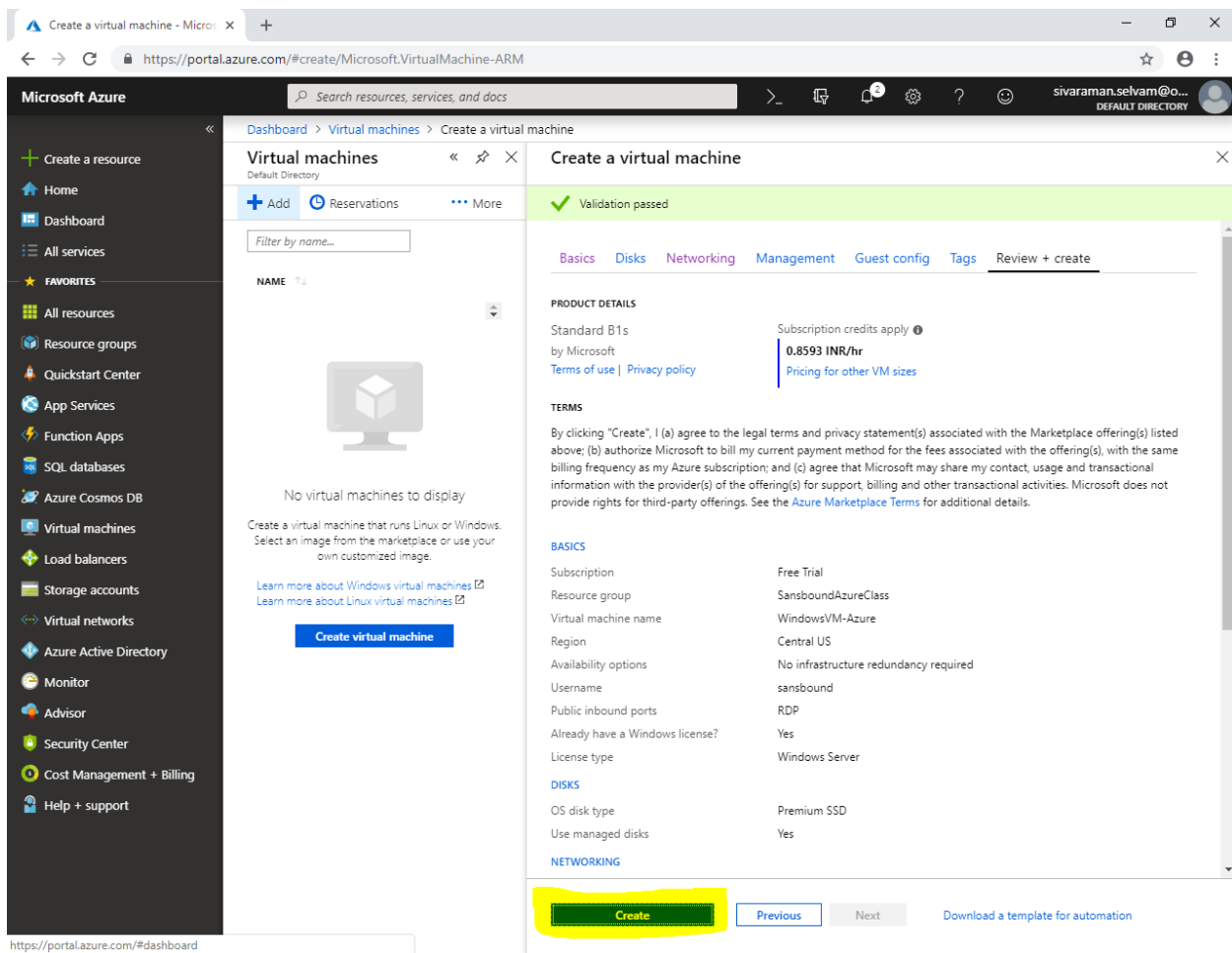
* Confirmation ☒

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”** to create Virtual machine.



The screenshot shows the Microsoft Azure portal interface for creating a virtual machine. The left sidebar contains navigation links for various Azure services. The main content area is titled 'Create a virtual machine' and shows a 'Validation passed' status. The 'Basics' tab is active, displaying configuration details for a Standard B1s VM. The 'Create' button is highlighted in yellow.

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 | Validation passed

Basics | Disks | Networking | Management | Guest config | Tags | Review + create

PRODUCT DETAILS

Standard B1s by Microsoft | Subscription credits apply | **0.8593 INR/hr** | [Pricing for other VM sizes](#)

[Terms of use](#) | [Privacy policy](#)

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	WindowsVM-Azure
Region	Central US
Availability options	No infrastructure redundancy required
Username	sansbound
Public inbound ports	RDP
Already have a Windows license?	Yes
License type	Windows Server

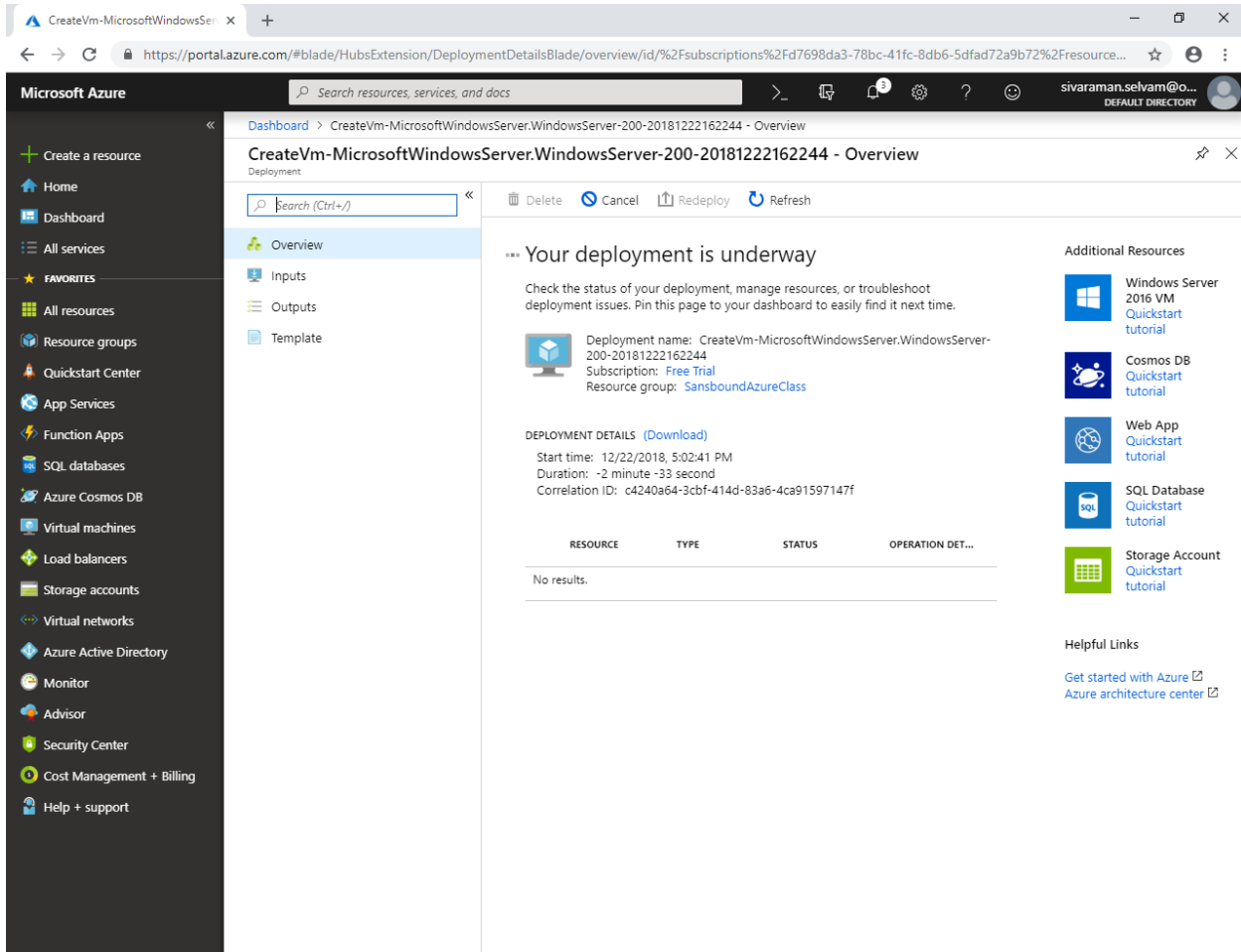
DISKS

OS disk type	Premium SSD
Use managed disks	Yes

NETWORKING

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

Virtual machine creation in progress, we need to wait for some time. Please wait for 4-5 minutes approximately.



Microsoft Azure

Search resources, services, and docs

Dashboard > CreateVm-MicrosoftWindowsServer.WindowsServer-200-20181222162244 - Overview

CreateVm-MicrosoftWindowsServer.WindowsServer-200-20181222162244 - Overview

Deployment

Search (Ctrl+/)

Overview

Inputs

Outputs

Template

*** Your deployment is underway

Check the status of your deployment, manage resources, or troubleshoot deployment issues. Pin this page to your dashboard to easily find it next time.

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsServer-200-20181222162244
Subscription: [Free Trial](#)
Resource group: [SansboundAzureClass](#)

DEPLOYMENT DETAILS [\(Download\)](#)

Start time: 12/22/2018, 5:02:41 PM
Duration: ~2 minute ~33 second
Correlation ID: c4240a64-3cbf-414d-83a6-4ca91597147f

RESOURCE	TYPE	STATUS	OPERATION DET...
No results.			

Additional Resources

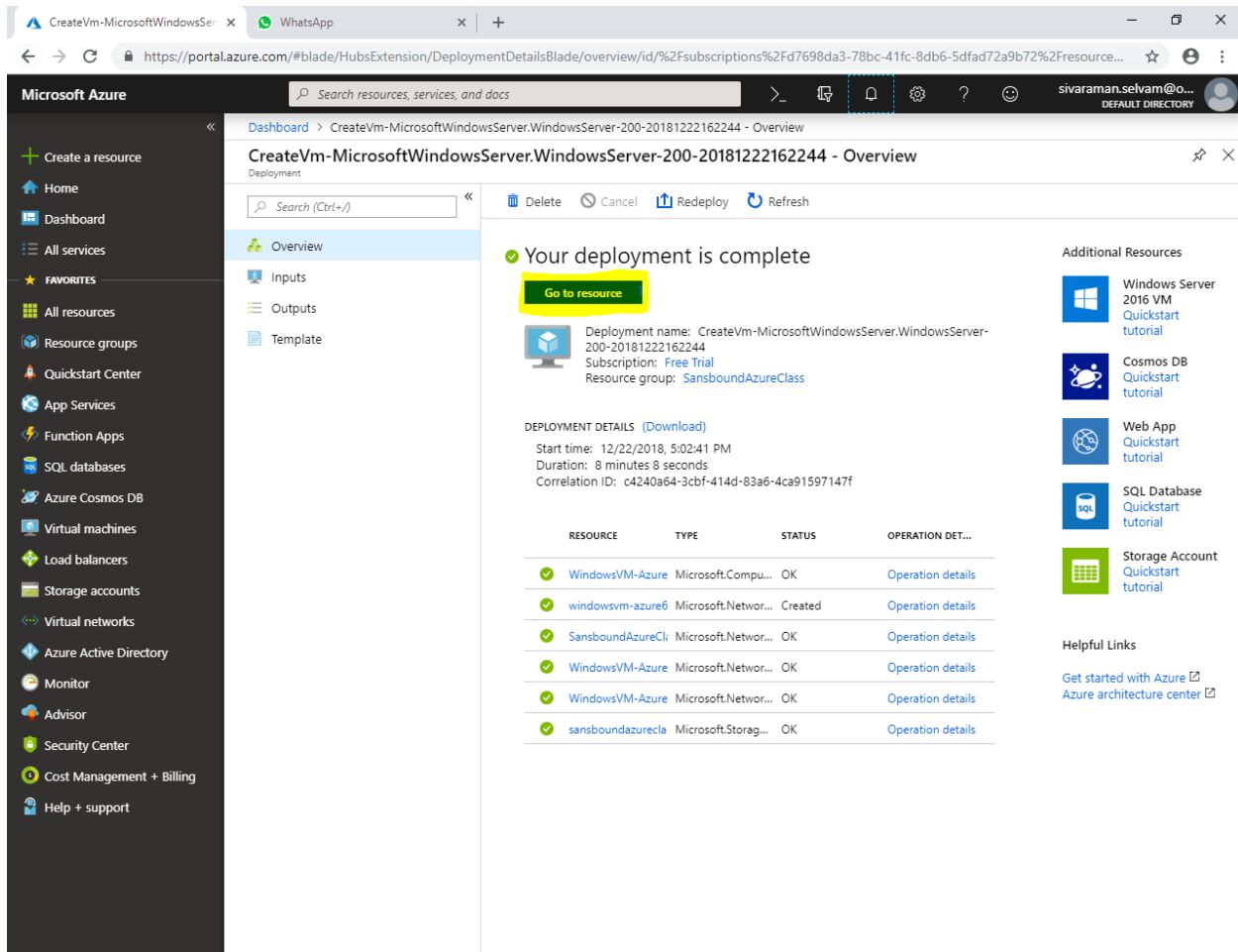
- [Windows Server 2016 VM Quickstart tutorial](#)
- [Cosmos DB Quickstart tutorial](#)
- [Web App Quickstart tutorial](#)
- [SQL Database Quickstart tutorial](#)
- [Storage Account Quickstart tutorial](#)

Helpful Links

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

Now your deployment has been completed.

Click **“Go to resource”**.



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 content area is titled 'CreateVm-MicrosoftWindowsServer.WindowsServer-200-20181222162244 - Overview'. It features a 'Go to resource' button and a message 'Your deployment is complete'. Below this, deployment details are listed: Start time: 12/22/2018, 5:02:41 PM; Duration: 8 minutes 8 seconds; Correlation ID: c4240a64-3cbf-414d-83a6-4ca91597147f. A table lists the resources deployed, all with a status of 'OK'. The table has columns for RESOURCE, TYPE, STATUS, and OPERATION DET....

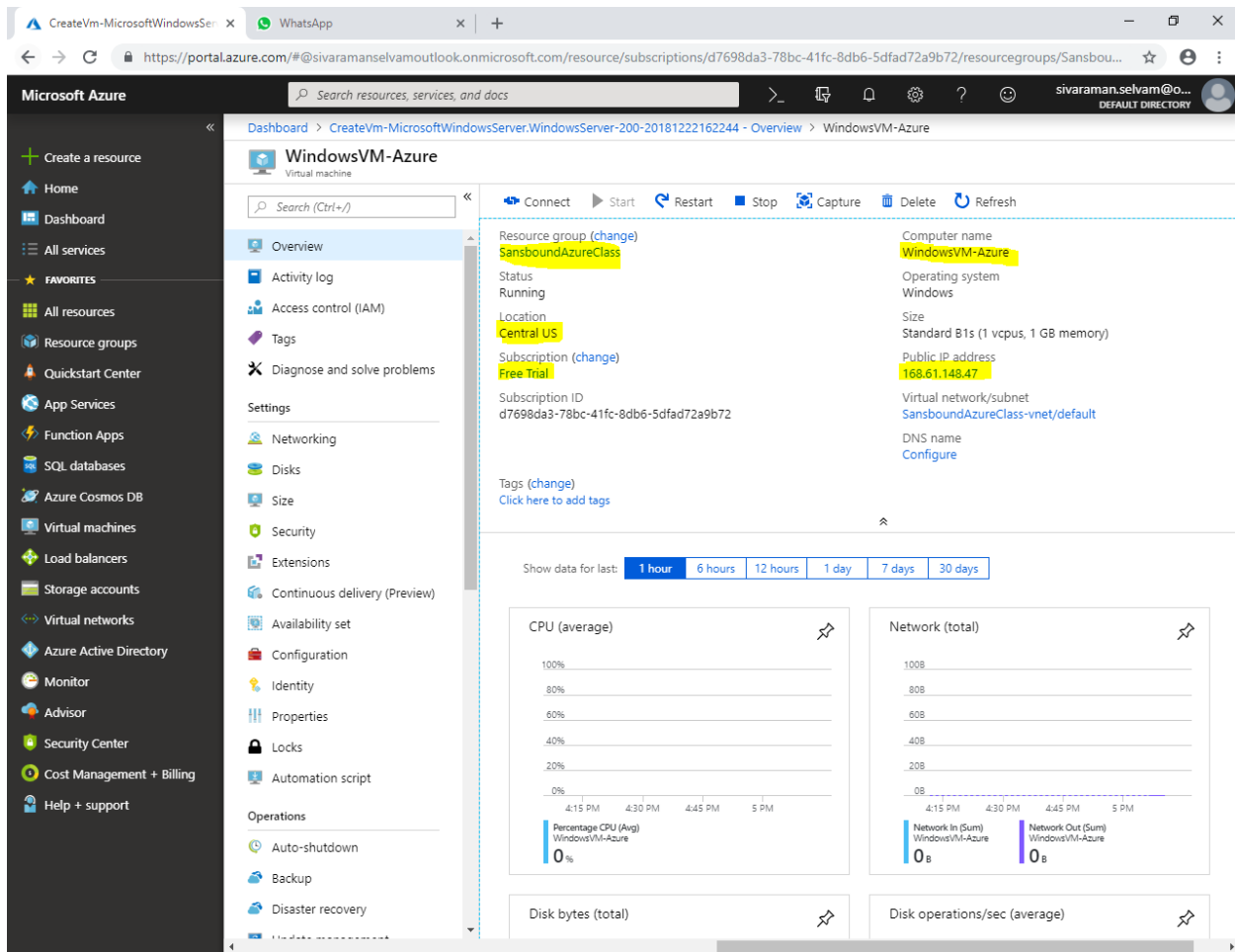
RESOURCE	TYPE	STATUS	OPERATION DET...
WindowsVM-Azure	Microsoft.Compu...	OK	Operation details
windowsvm-azure6	Microsoft.Networ...	Created	Operation details
SansboundAzureCli	Microsoft.Networ...	OK	Operation details
WindowsVM-Azure	Microsoft.Networ...	OK	Operation details
WindowsVM-Azure	Microsoft.Networ...	OK	Operation details
sansboundazurecla	Microsoft.Storag...	OK	Operation details

Additional Resources on the right include: Windows Server 2016 VM Quickstart tutorial, Cosmos DB Quickstart tutorial, Web App Quickstart tutorial, SQL Database Quickstart tutorial, and Storage Account Quickstart tutorial. Helpful Links at the bottom include 'Get started with Azure' and 'Azure architecture center'.

Now we are in VM settings which has been created by us in the name of **“WindowsVM-Azure”**.

We have got below mentioned information in the Virtual machine.

- a) Resource group details under which **“Resource Group”** has been created the VM.
- b) **Computer Name, Location and Virtual Machine Size.**
- c) **Subscription type.**
- d) We have got Public IP for the Virtual machine (Our IP is **168.61.148.47**).



The screenshot displays the Azure portal interface for a virtual machine named 'WindowsVM-Azure'. The left sidebar shows the navigation menu with options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area shows the 'Overview' tab for the VM, which includes details such as the resource group ('SansboundAzureClass'), status ('Running'), location ('Central US'), subscription ('Free Trial'), and public IP address ('168.61.148.47'). Below the overview, there are performance charts for CPU (average), Network (total), Disk bytes (total), and Disk operations/sec (average).

WindowsVM-Azure
Virtual machine

Search (Ctrl+/)

Connect Start Restart Stop Capture Delete Refresh

Resource group (change) **SansboundAzureClass**

Status Running

Location **Central US**

Subscription (change) **Free Trial**

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

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

Computer name **WindowsVM-Azure**

Operating system Windows

Size Standard B1s (1 vcpu, 1 GB memory)

Public IP address **168.61.148.47**

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) WindowsVM-Azure

0%

Network (total)

Network In (Sum) WindowsVM-Azure

0 B

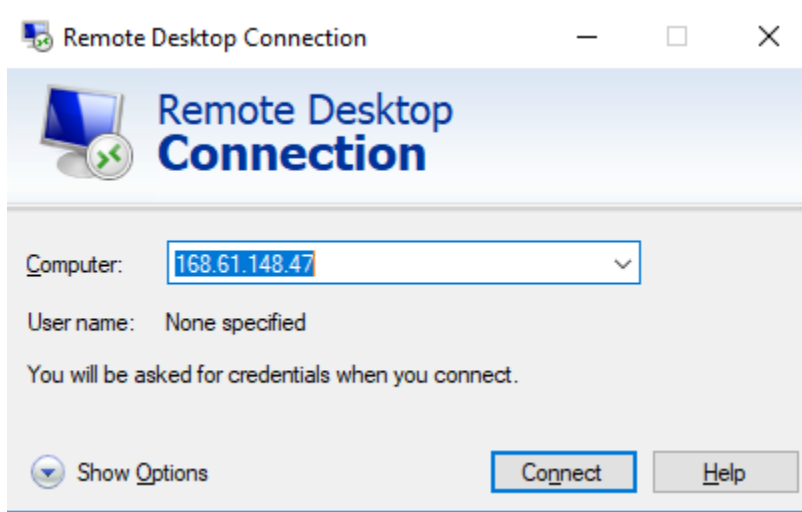
Network Out (Sum) WindowsVM-Azure

0 B

Disk bytes (total)

Disk operations/sec (average)

From local machine / Physical machine, type “mstsc” in Run box to get console to access the server remotely.

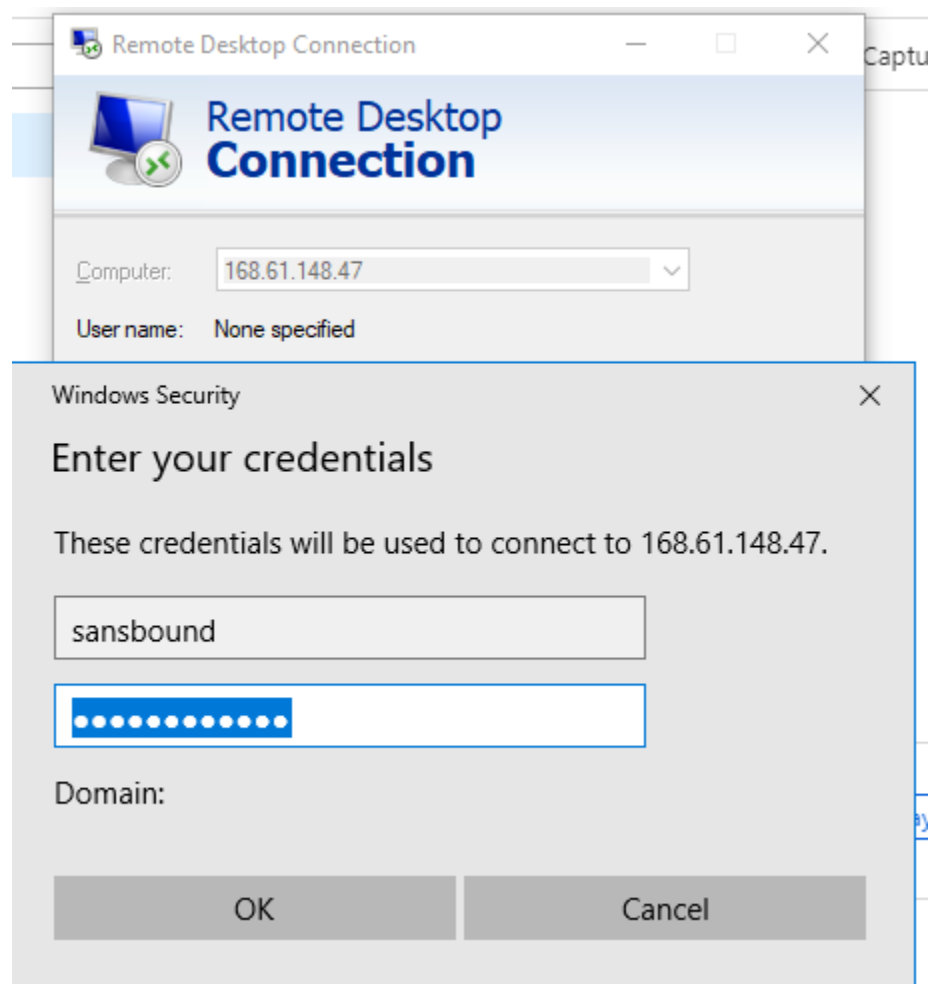


Click “Connect”.

While click “Connect” it required login credentials to access the server.

Type username as “sansbound”

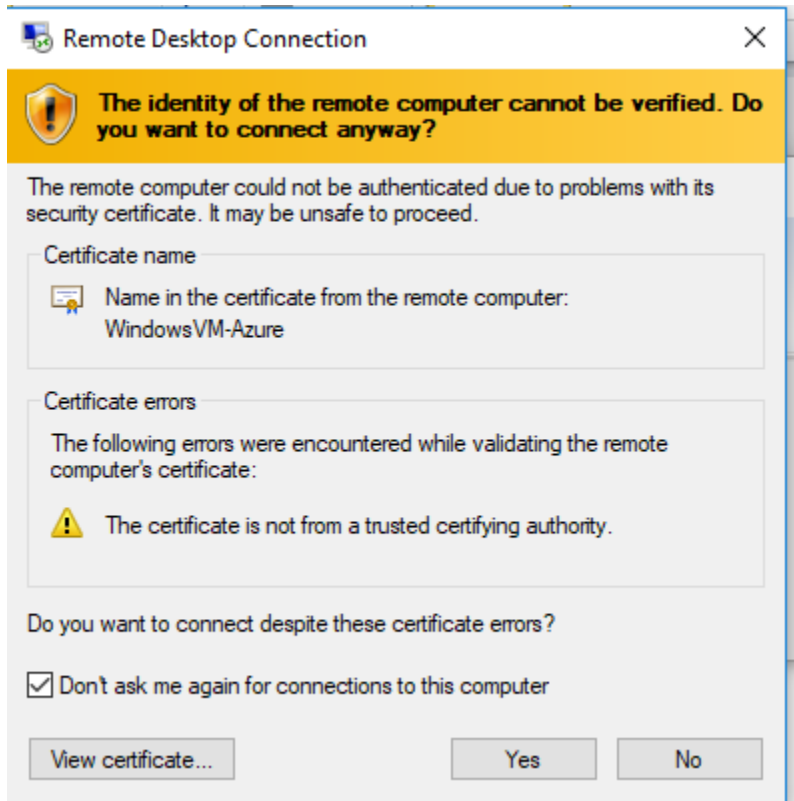
Type Password (Which you have provided in Azure Portal)



Then Click “OK”.

And Check “Don’t ask me again for connections to this computer”.

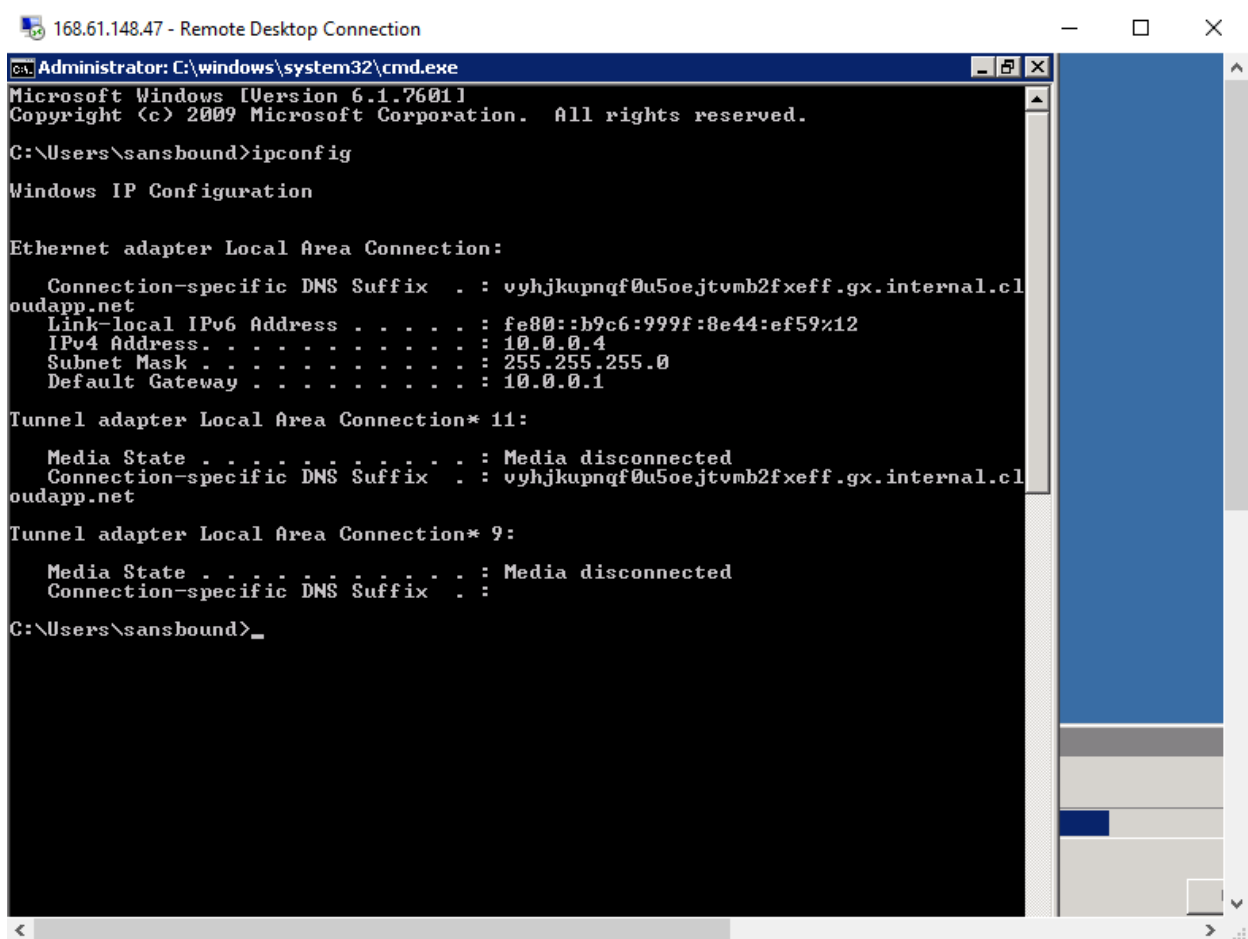
Click “Yes”



I have successfully logged on to the “Windows 2008 R2” Virtual machine in Azure.

I have got the IP address details from command prompt by type “ipconfig”.

I have got the IP as 10.0.0.4.



```
Administrator: C:\windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\sansbound>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : vyhjkupnqf0u5oejtvmb2fxeff.gx.internal.cl
oudapp.net
    Link-local IPv6 Address . . . . . : fe80::b9c6:999f:8e44:ef59%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:

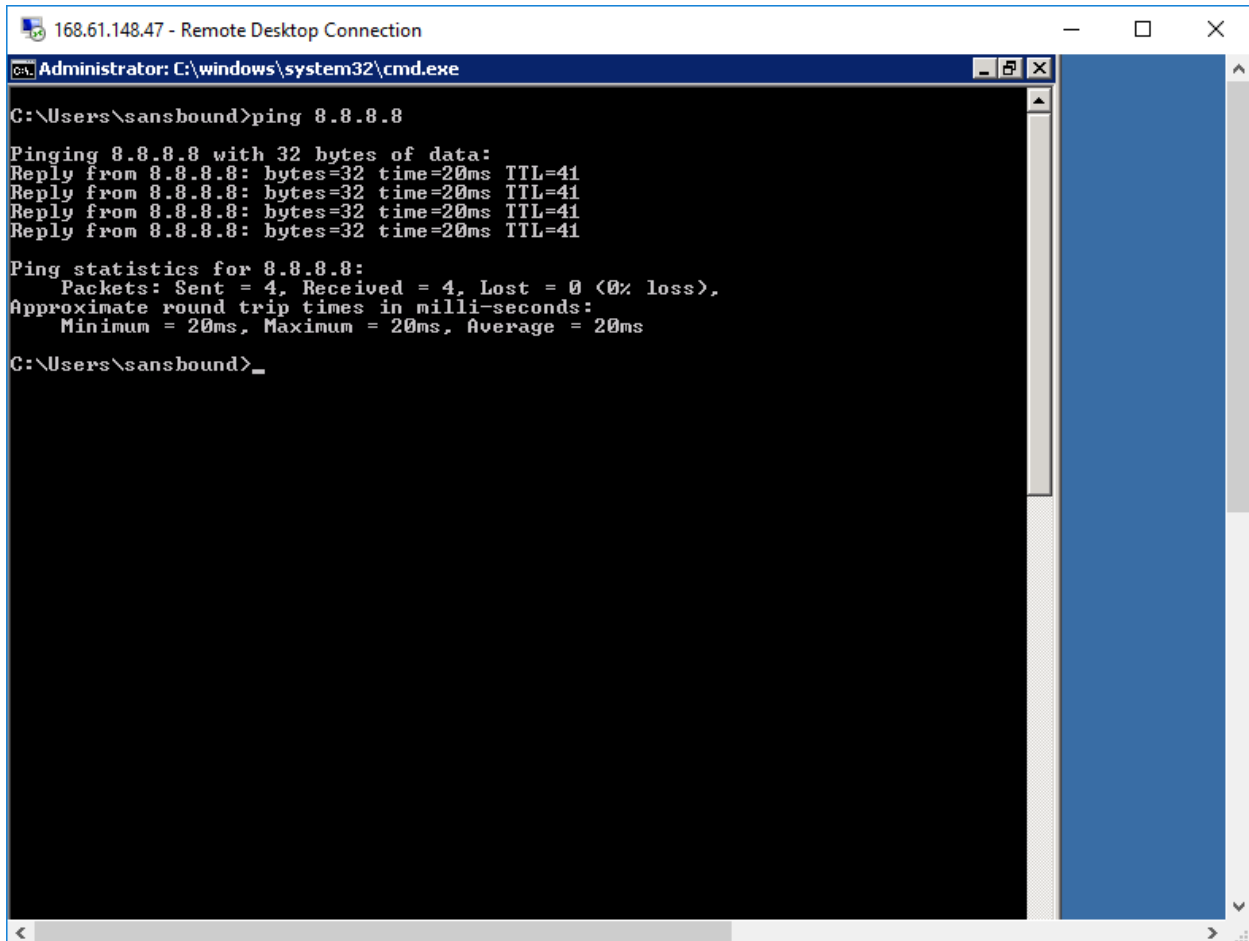
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : vyhjkupnqf0u5oejtvmb2fxeff.gx.internal.cl
oudapp.net

Tunnel adapter Local Area Connection* 9:

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

C:\Users\sansbound>
```

By default internet access has been provided.



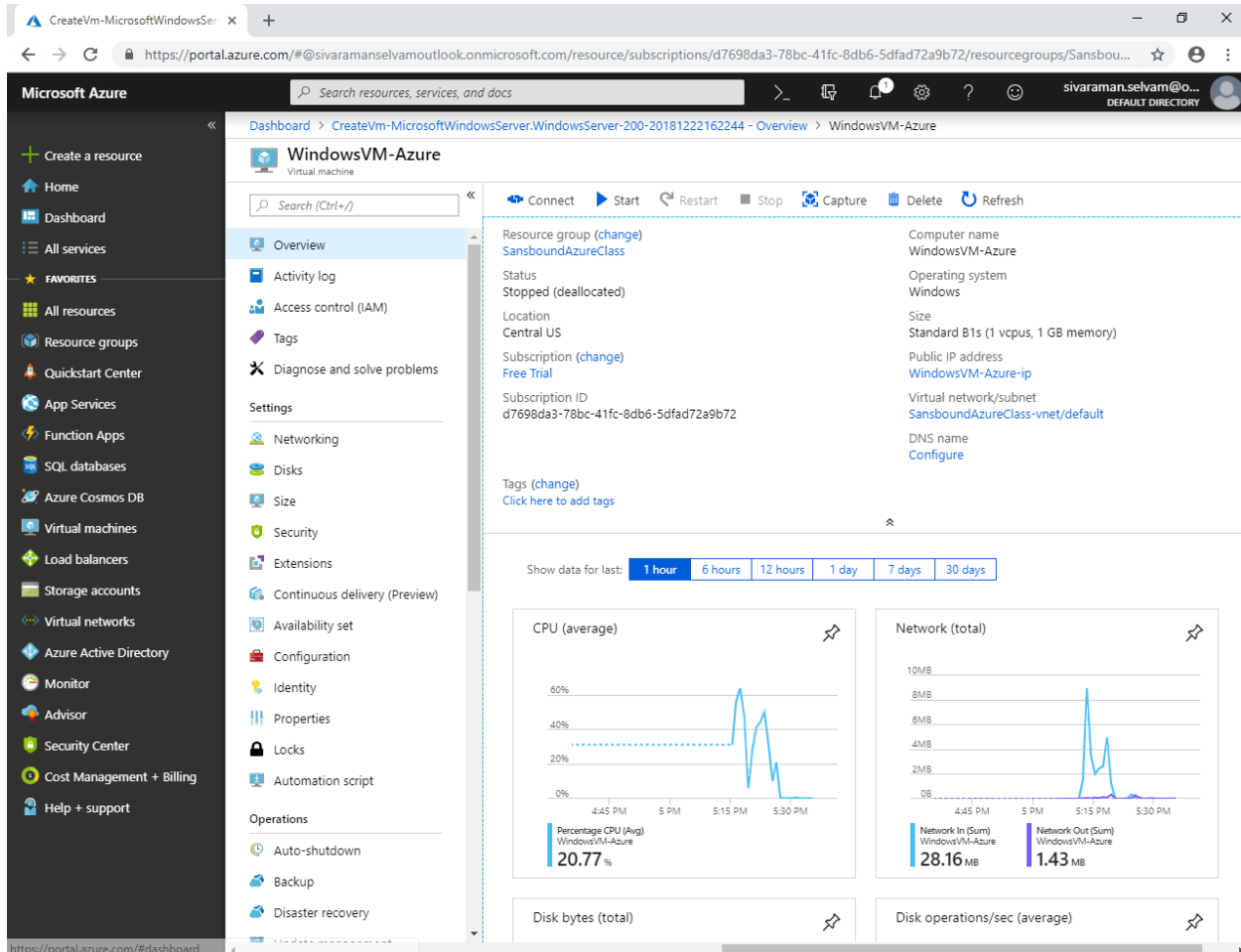
```
C:\Users\sansbound>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=20ms TTL=41
Reply from 8.8.8.8: bytes=32 time=20ms TTL=41
Reply from 8.8.8.8: bytes=32 time=20ms TTL=41
Reply from 8.8.8.8: bytes=32 time=20ms TTL=41

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 20ms, Maximum = 20ms, Average = 20ms

C:\Users\sansbound>_
```

Once you have shutdown the machine “Stop” button becomes inactive. It seems the VM has been Shutdown successfully.



The screenshot shows the Azure portal interface for a virtual machine named "WindowsVM-Azure". The VM is in a "Stopped (deallocated)" state, and the "Stop" button is inactive. The page displays various settings, tags, and performance metrics.

Resource group: SansboundAzureClass

Status: Stopped (deallocated)

Location: Central US

Subscription: SansboundAzureClass

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

Computer name: WindowsVM-Azure

Operating system: Windows

Size: Standard B1s (1 vcpu, 1 GB memory)

Public IP address: WindowsVM-Azure-ip

Virtual network/subnet: SansboundAzureClass-vnet/default

DNS name: Configure

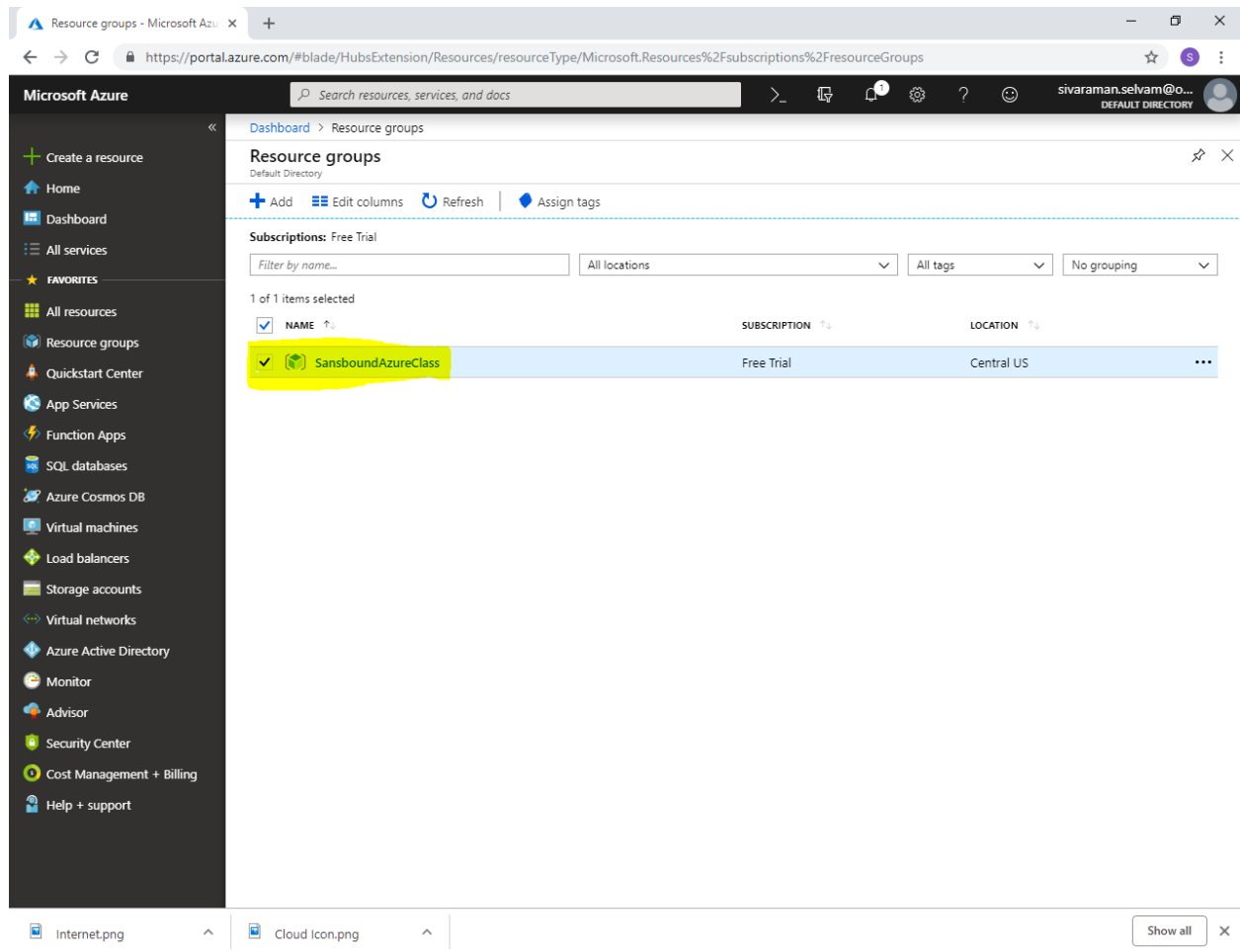
Tags: (change) [Click here to add tags](#)

Performance Metrics:

- CPU (average):** 20.77 %
- Network (total):** 28.16 MB (Network In), 1.43 MB (Network Out)
- Disk bytes (total):**
- Disk operations/sec (average):**

In Dashboard, click **“Resource Groups”**

Select Resource groups **“SansboundAzureClass”** which you have required to delete.



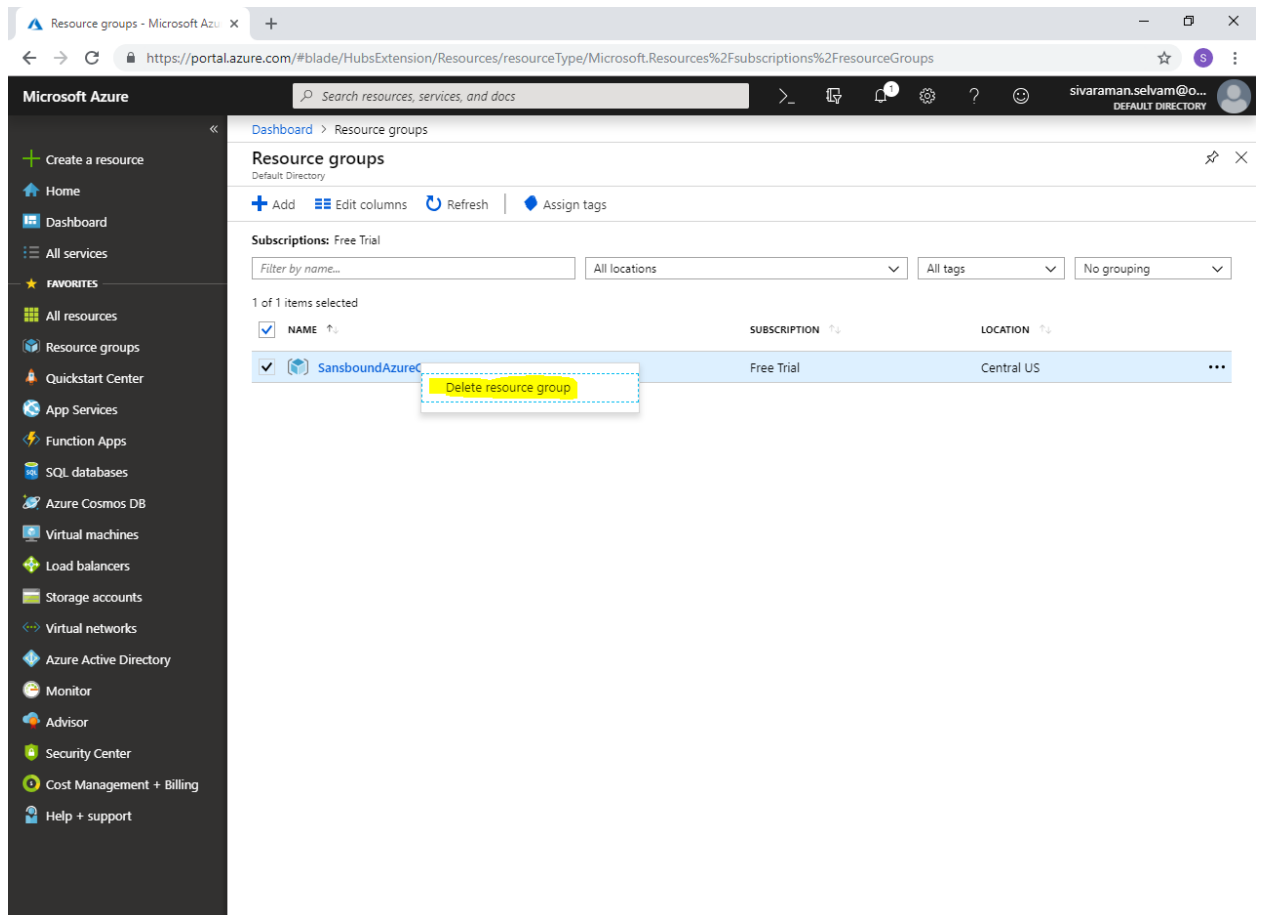
The screenshot shows the Microsoft Azure portal interface. The left sidebar contains the navigation menu with options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area displays the 'Resource groups' page for the 'Free Trial' subscription. A table lists the resource groups, with 'SansboundAzureClass' highlighted in yellow. The table has columns for 'NAME', 'SUBSCRIPTION', and 'LOCATION'.

NAME	SUBSCRIPTION	LOCATION
SansboundAzureClass	Free Trial	Central US

Note: It's not recommended to delete the Resource group it will delete the entire features which has been created under the resource groups.

But, we are in Free Trial subscription / Learning purpose. So we have delete the resource group to delete all features which has been created by us instead of manual deletion of the features.

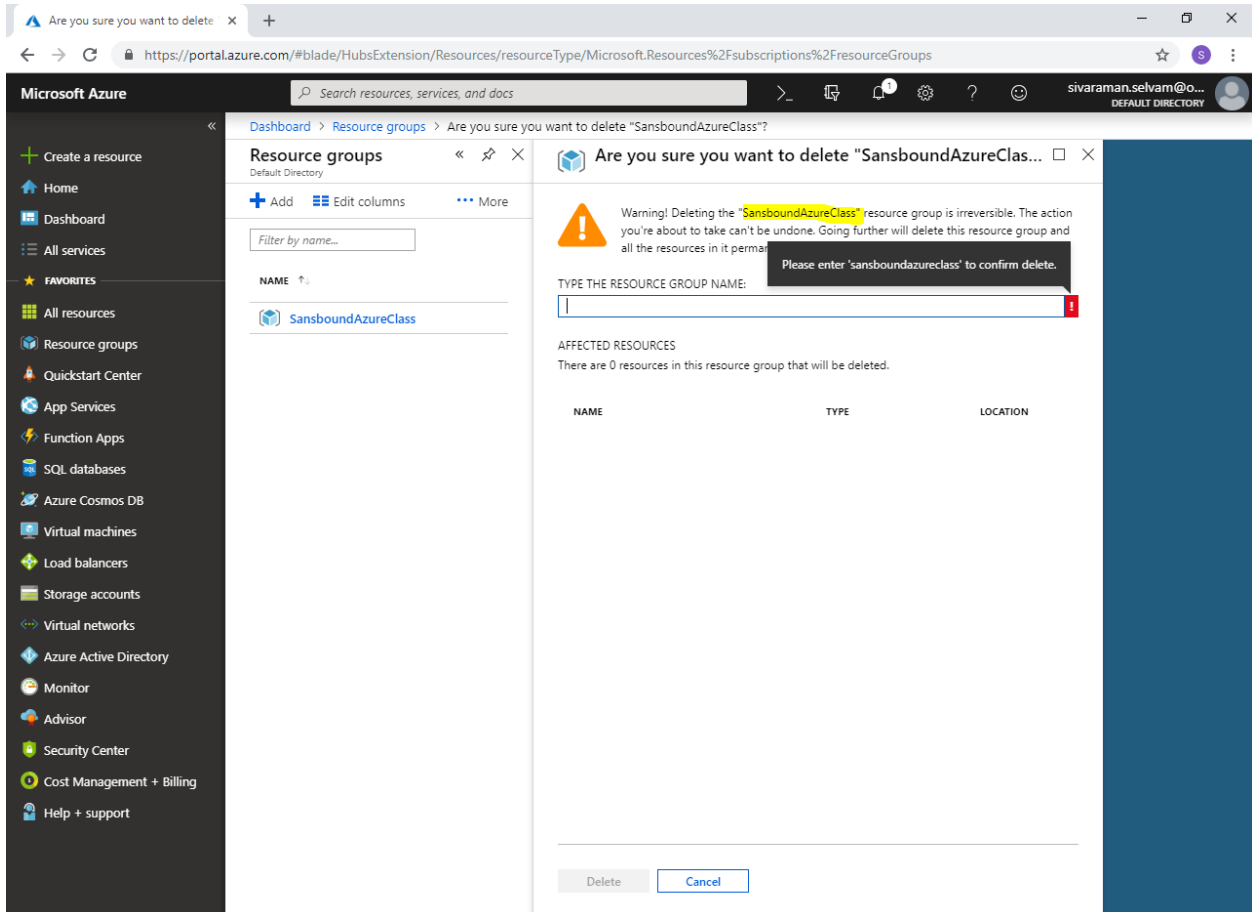
Select Resource Group named “SansboundAzureClass” and right click it, then click “Delete resource group”.



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', and 'FAVORITES'. The main content area displays the 'Resource groups' page for the 'Default Directory'. A table lists the resource groups, with 'SansboundAzureClass' selected. A context menu is open over the selected resource group, showing the option 'Delete resource group'.

NAME	SUBSCRIPTION	LOCATION
SansboundAzureClass	Free Trial	Central US

Type Resource group name as “SansboundAzureClass”



The screenshot shows the Microsoft Azure portal interface. On the left is the navigation pane with options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main area displays the 'Resource groups' page for the 'Default Directory'. A resource group named 'SansboundAzureClass' is listed. A confirmation dialog box is open, titled 'Are you sure you want to delete "SansboundAzureClass..."'. The dialog contains a warning message: 'Warning! Deleting the "SansboundAzureClass" resource group is irreversible. The action you're about to take can't be undone. Going further will delete this resource group and all the resources in it permanently.' Below this, there is a text input field labeled 'TYPE THE RESOURCE GROUP NAME:' with the value 'sansboundazureclass' entered. A message above the input field says 'Please enter "sansboundazureclass" to confirm delete.' Below the input field, it states 'AFFECTED RESOURCES: There are 0 resources in this resource group that will be deleted.' At the bottom of the dialog are 'Delete' and 'Cancel' buttons.

Are you sure you want to delete "SansboundAzureClass"?

Warning! Deleting the "SansboundAzureClass" resource group is irreversible. The action you're about to take can't be undone. Going further will delete this resource group and all the resources in it permanently.

Please enter "sansboundazureclass" to confirm delete.

TYPE THE RESOURCE GROUP NAME:

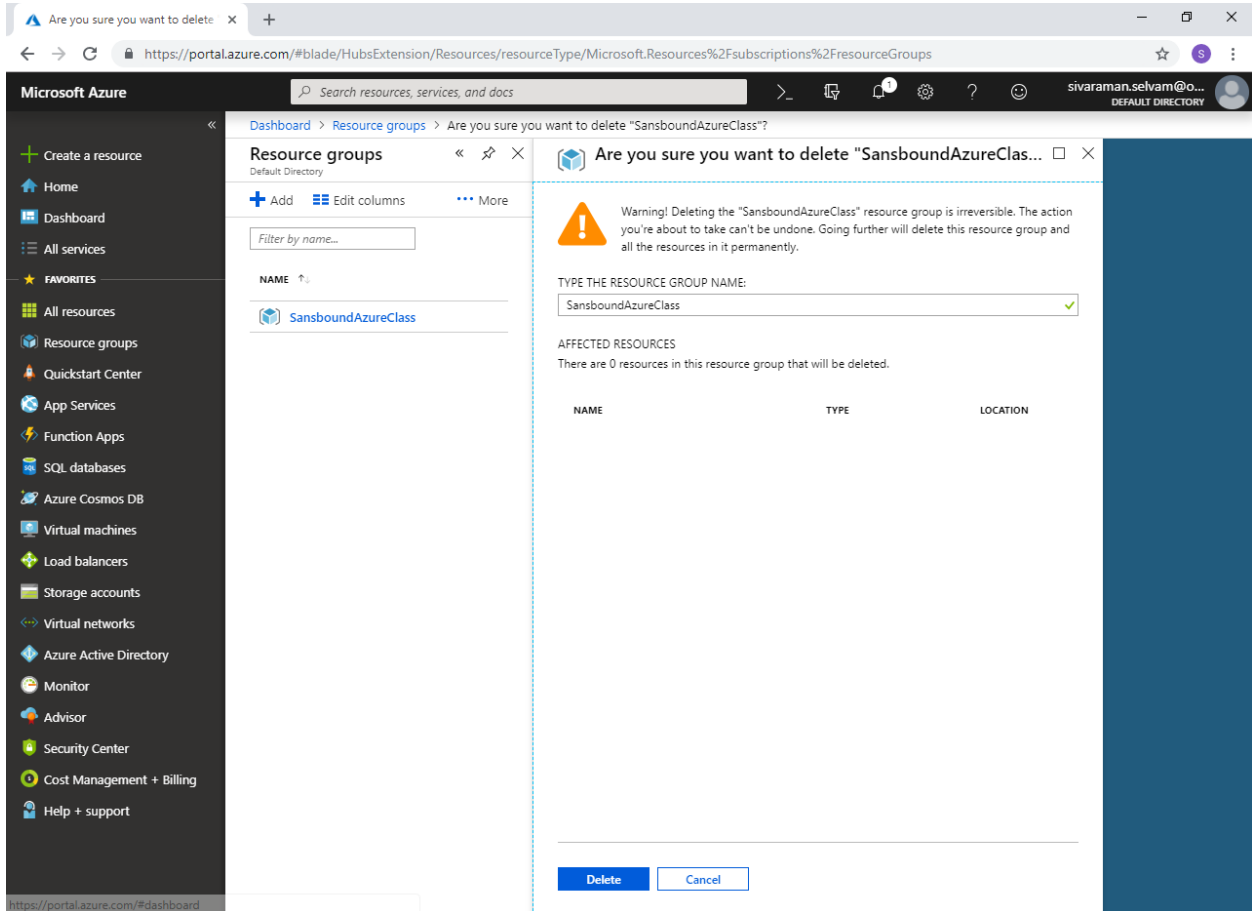
AFFECTED RESOURCES

There are 0 resources in this resource group that will be deleted.

NAME TYPE LOCATION

Delete Cancel

Click **"Delete"** to delete the Resource group.



The screenshot shows the Microsoft Azure portal interface. On the left is a navigation sidebar with options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main area displays the 'Resource groups' page for the 'Default Directory'. A confirmation dialog is open, titled 'Are you sure you want to delete "SansboundAzureClass..."'. The dialog contains a warning icon and text: 'Warning! Deleting the "SansboundAzureClass" resource group is irreversible. The action you're about to take can't be undone. Going further will delete this resource group and all the resources in it permanently.' Below this, there is a field 'TYPE THE RESOURCE GROUP NAME:' with the value 'SansboundAzureClass' and a green checkmark. Under 'AFFECTED RESOURCES', it states 'There are 0 resources in this resource group that will be deleted.' At the bottom of the dialog are two buttons: 'Delete' and 'Cancel'.

Microsoft Azure

Search resources, services, and docs

Are you sure you want to delete "SansboundAzureClass..."

Resource groups

Default Directory

+ Add Edit columns More

Filter by name...

NAME

SansboundAzureClass

Warning! Deleting the "SansboundAzureClass" resource group is irreversible. The action you're about to take can't be undone. Going further will delete this resource group and all the resources in it permanently.

TYPE THE RESOURCE GROUP NAME:

SansboundAzureClass

AFFECTED RESOURCES

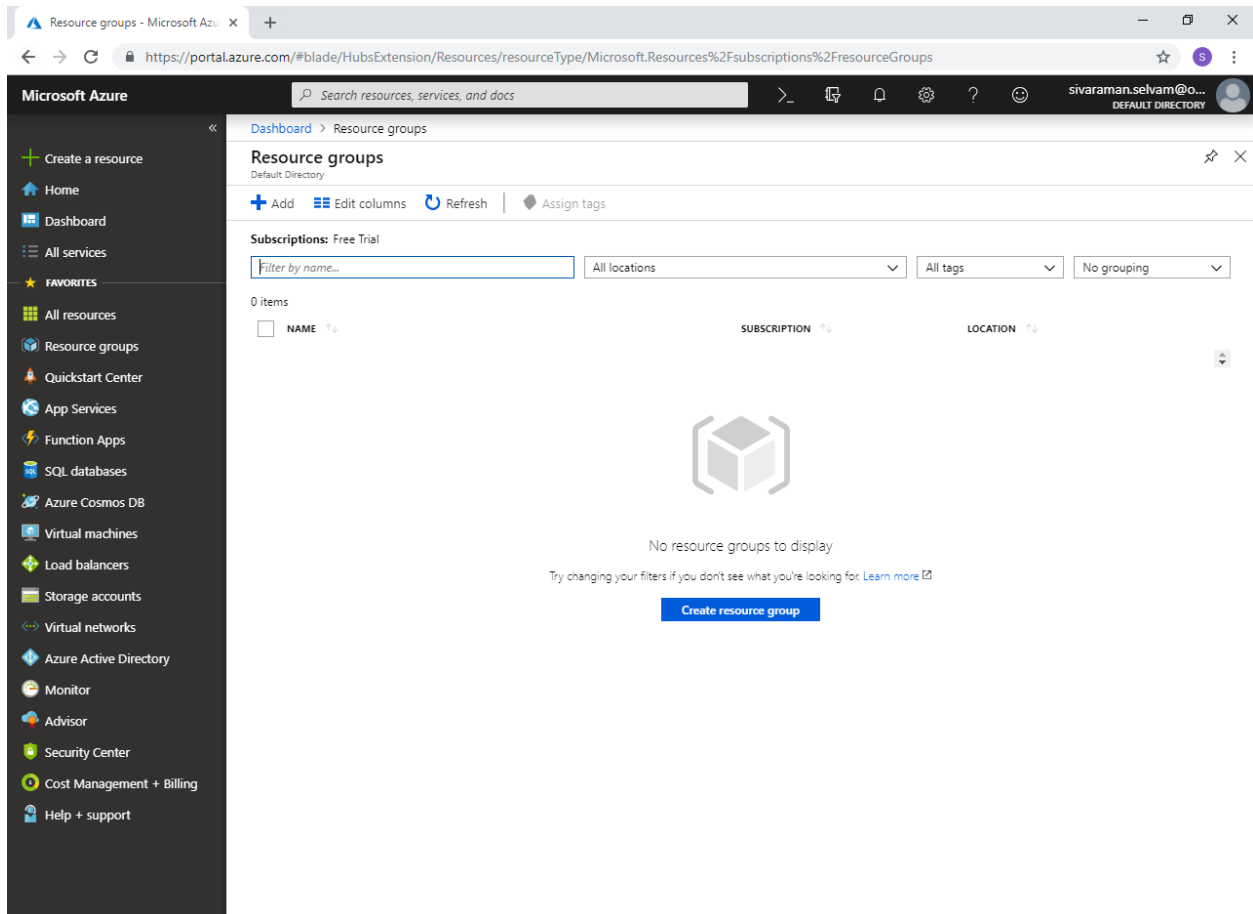
There are 0 resources in this resource group that will be deleted.

NAME	TYPE	LOCATION
------	------	----------

Delete Cancel

Click “Refresh”.

Now the “Resource Group” has been deleted.



The screenshot shows the Microsoft Azure portal interface. The left-hand navigation pane is open, displaying various services. The 'Resource groups' section is selected. The main content area shows the 'Resource groups' page with a message stating '0 items' and 'No resource groups to display'. A 'Create resource group' button is visible at the bottom of the main content area. The top navigation bar includes a search bar and the user's profile information.