

CLOUD COMPUTING METHODOLOGIES

LAB ASSESSMENT-4

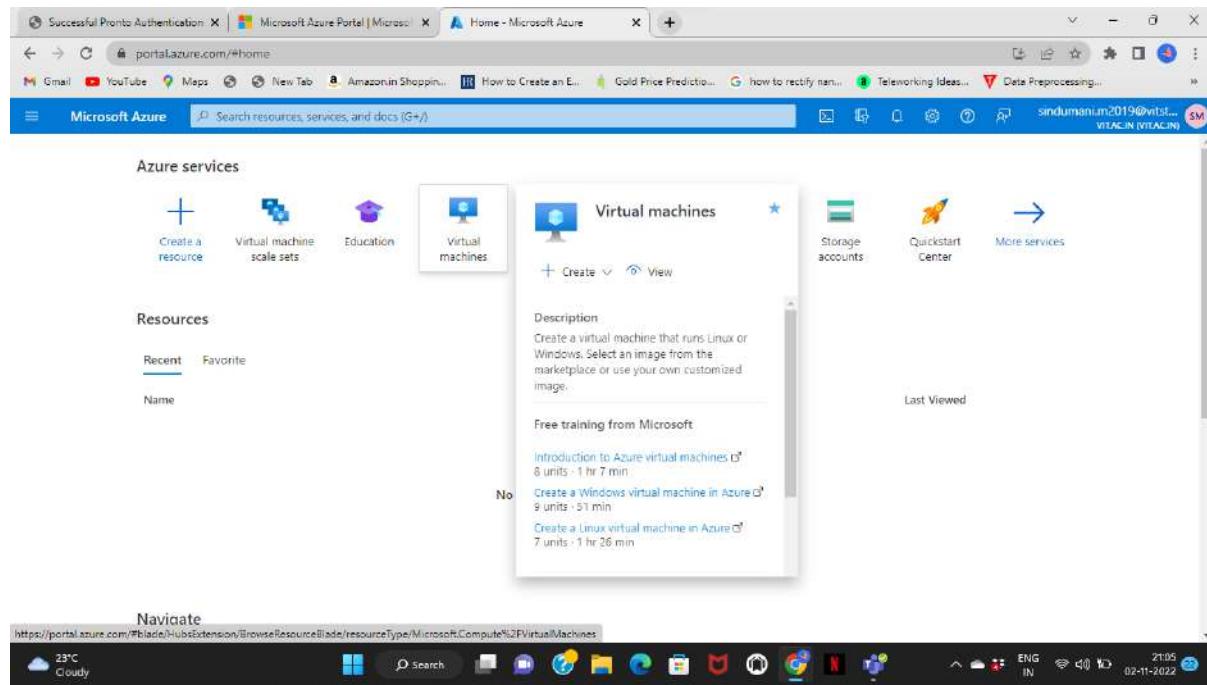
NAME:SINDUMANI.M

REGNO:19MIC0002

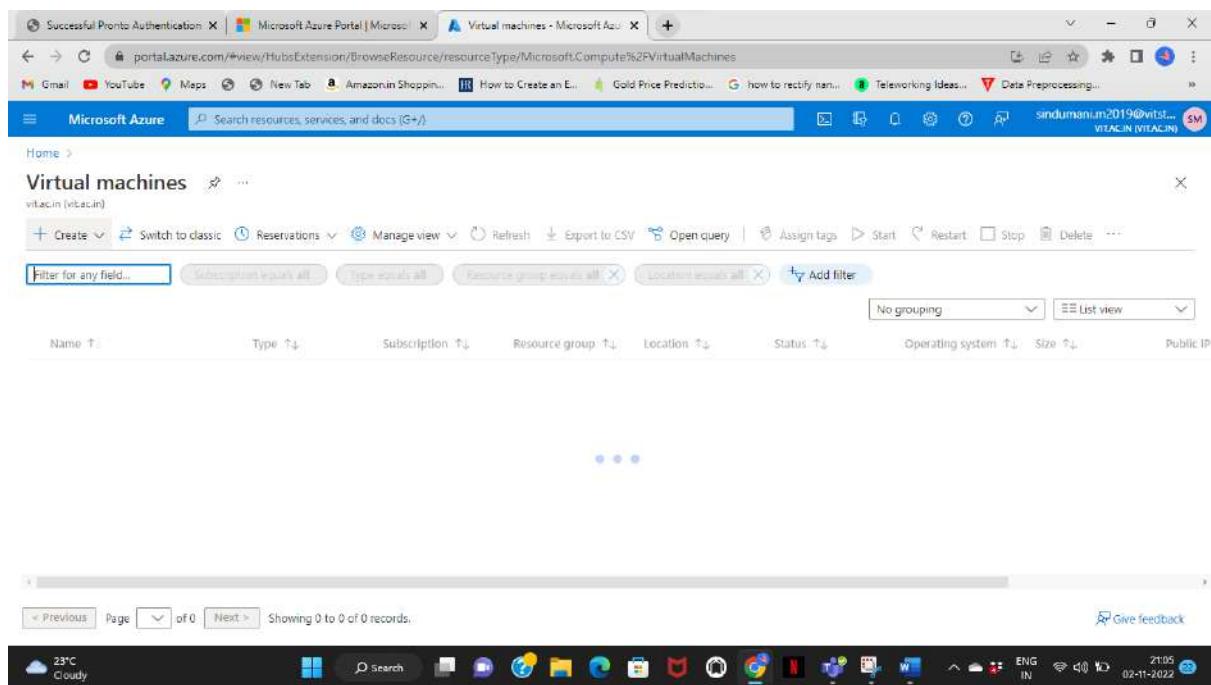
SLOT:L9+L10

1.LOAD BALACING IN AZURE

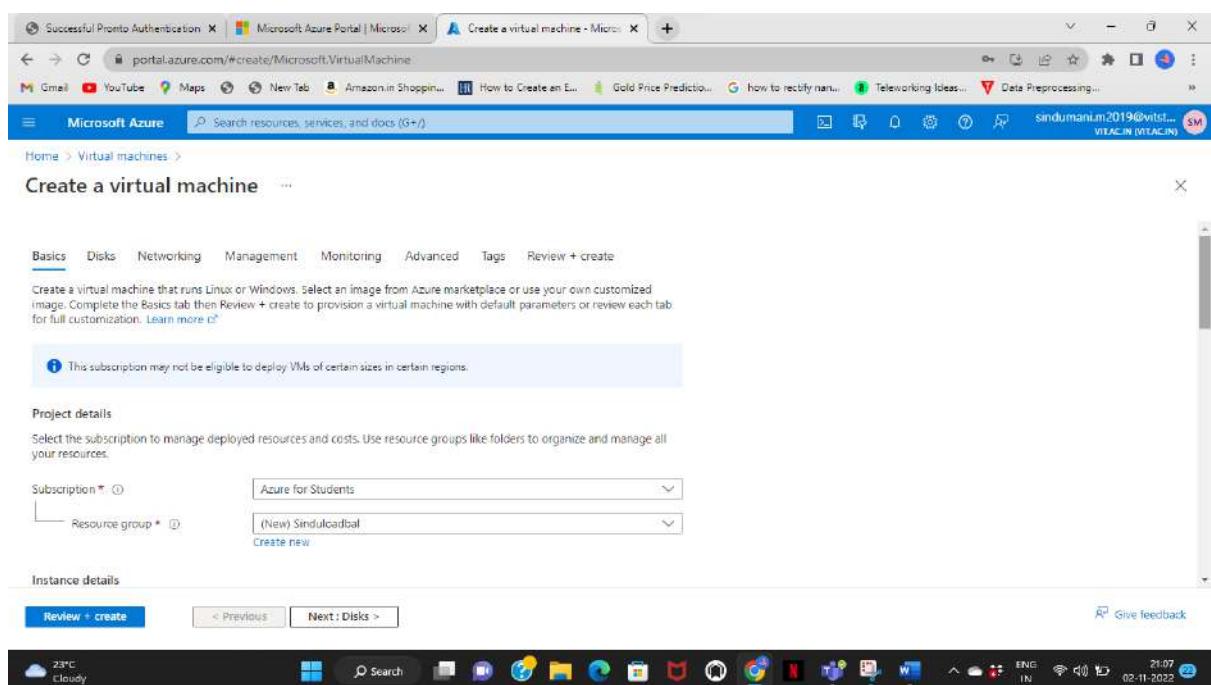
STEP 1:TO CREATE AN VIRTUAL MACHINE



STEP 2:CLICKING CREATE TO CREATE THE VIRTUAL MACHINE



STEP 3:FILLING THE DETAILS FOR VIRTUAL MACHINE1



Successful Pronto Authentication | Microsoft Azure Portal | Microsoft | Create a virtual machine - Microsoft

portal.azure.com/#create/Microsoft.VirtualMachine

Gmail YouTube Maps New Tab Amazon.in Shopping How to Create an E... Gold Price Prediction... how to rectify nan... Teleworking Ideas... Data Preprocessing...

Microsoft Azure Search resources, services, and docs (G+)

sindumani.m2019@vitst... VITACIN (VITACIN)

Home > Virtual machines >

Create a virtual machine

Instance details

Virtual machine name *

Region *

Availability options

Security type

Image * See all Images | Configure VM generation

VM architecture x64
 Arm64
Arm64 is not supported with the selected image.

Run with Azure Spot discount

Size * See all sizes

[Review + create](#) [Previous](#) [Next : Disks >](#) [Give feedback](#)

23°C Cloudy Search File Internet Explorer Google Chrome Netflix WPS Office ENG IN 21:08 02-11-2022

Successful Pronto Authentication | Microsoft Azure Portal | Microsoft | Create a virtual machine - Microsoft

portal.azure.com/#create/Microsoft.VirtualMachine

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Microsoft Azure Search resources, services, and docs (G+)

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Home > Virtual machines >

Create a virtual machine

Size * See all sizes

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
 None

Select inbound ports *

[Review + create](#) [Previous](#) [Next : Disks >](#) [Give feedback](#)

23°C Cloudy Search File Internet Explorer Google Chrome Netflix WPS Office ENG IN 21:08 02-11-2022

Successful Pronto Authentication X Microsoft Azure Portal | Microsoft X Create a virtual machine - Microsoft X +

portal.azure.com/#create/Microsoft.VirtualMachine

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Home > Virtual machines > Create a virtual machine ...

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * (new) SindhuLoadbal-vnet Create new

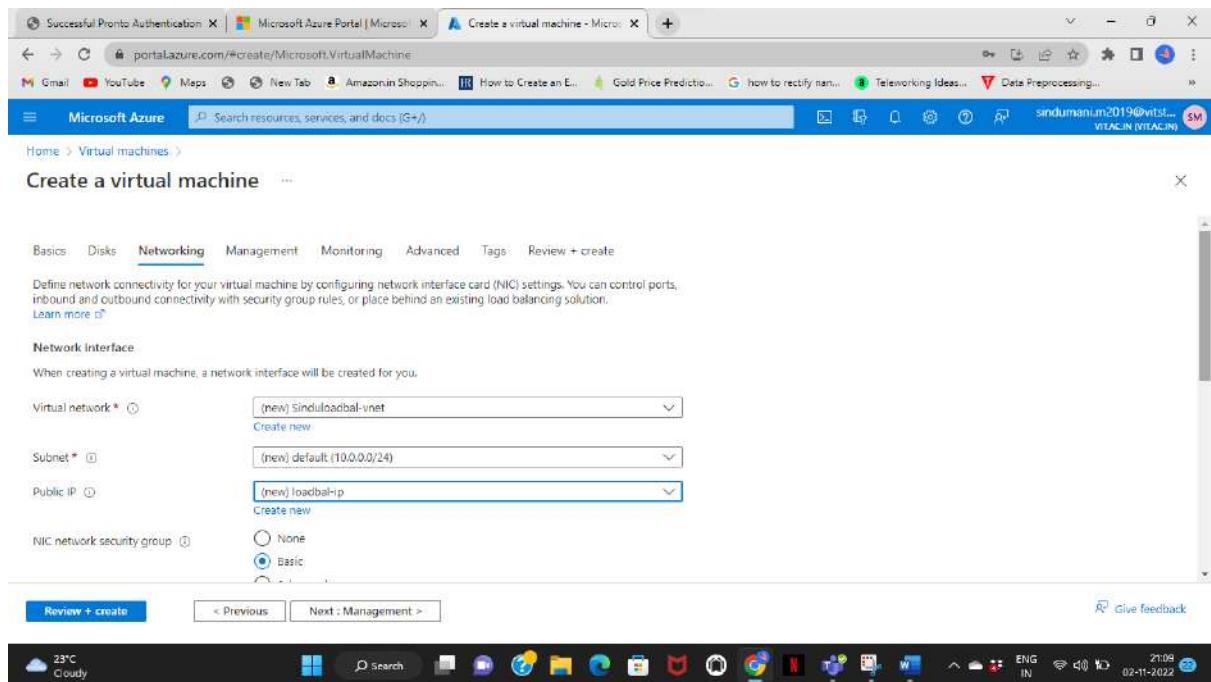
Subnet * (new) default (10.0.0.0/24)

Public IP * (new) loadbal-p Create new

NIC network security group * None Basic

Review + create < Previous Next : Management > Give feedback

Cloudy 23°C Search ENG IN 21:09 02-11-2022



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portal.azure.com/#create/Microsoft.VirtualMachine

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Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual machines > Create a virtual machine ...

Advanced

Public inbound ports * None Allow selected ports

Select inbound ports * HTTP (80), HTTPS (443), RDP (3389)

⚠ This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

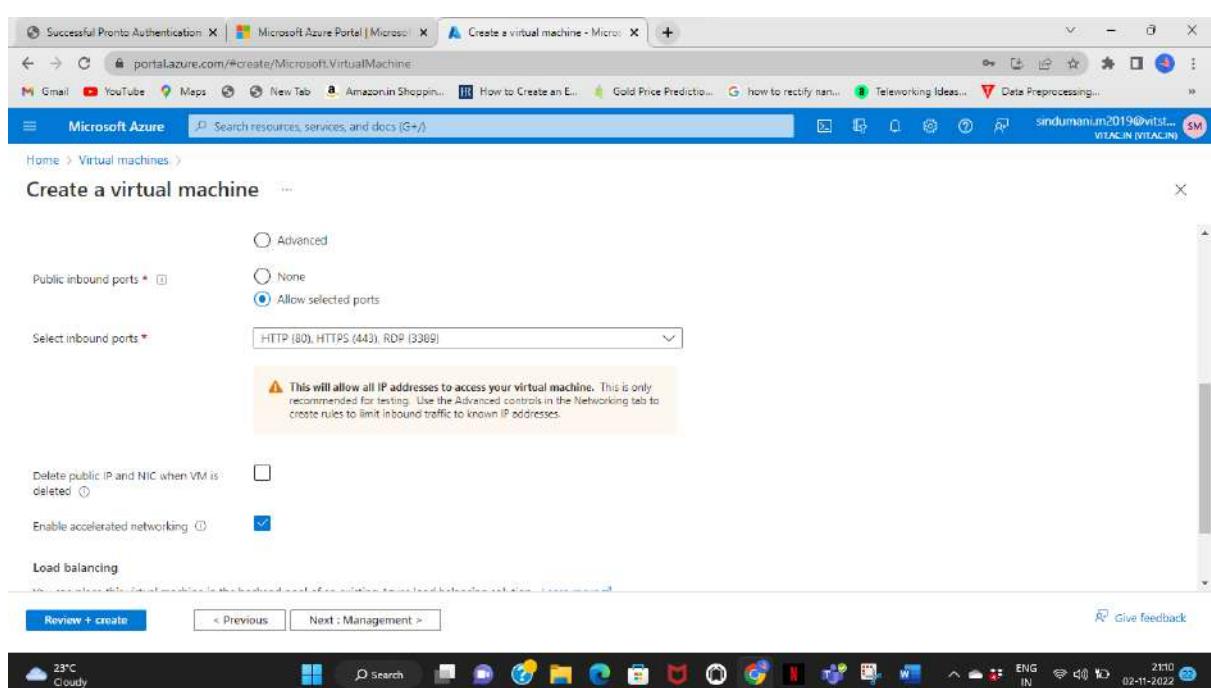
Delete public IP and NIC when VM is deleted

Enable accelerated networking

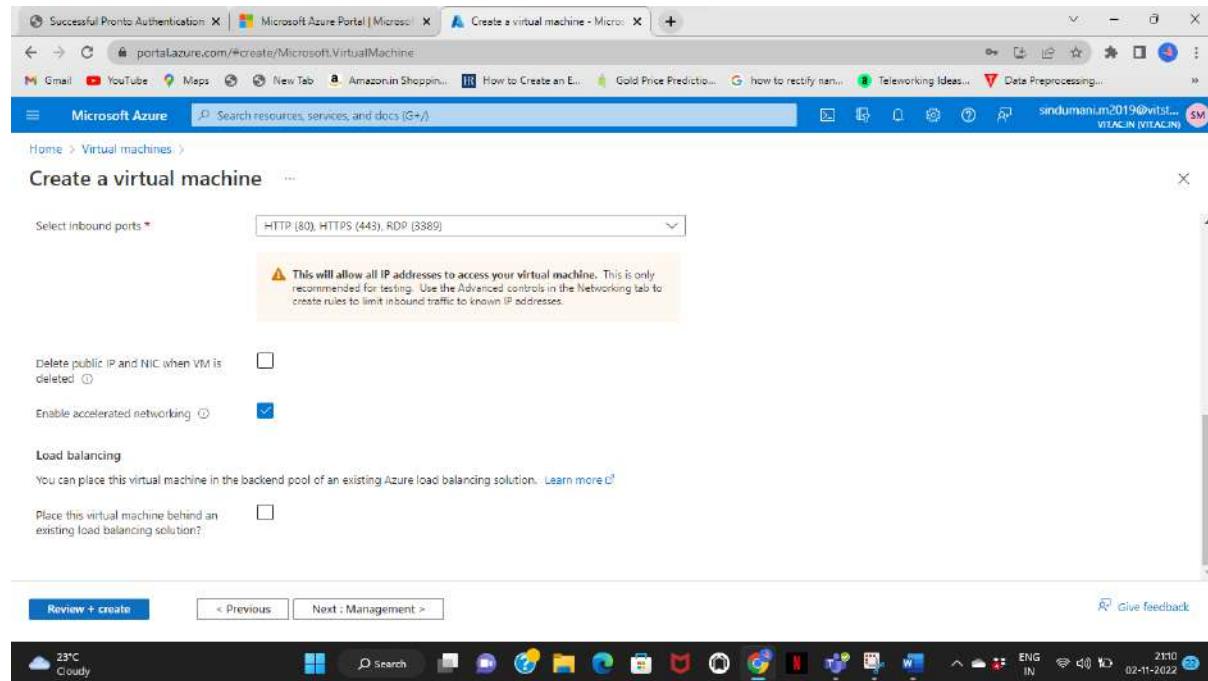
Load balancing

Review + create < Previous Next : Management > Give feedback

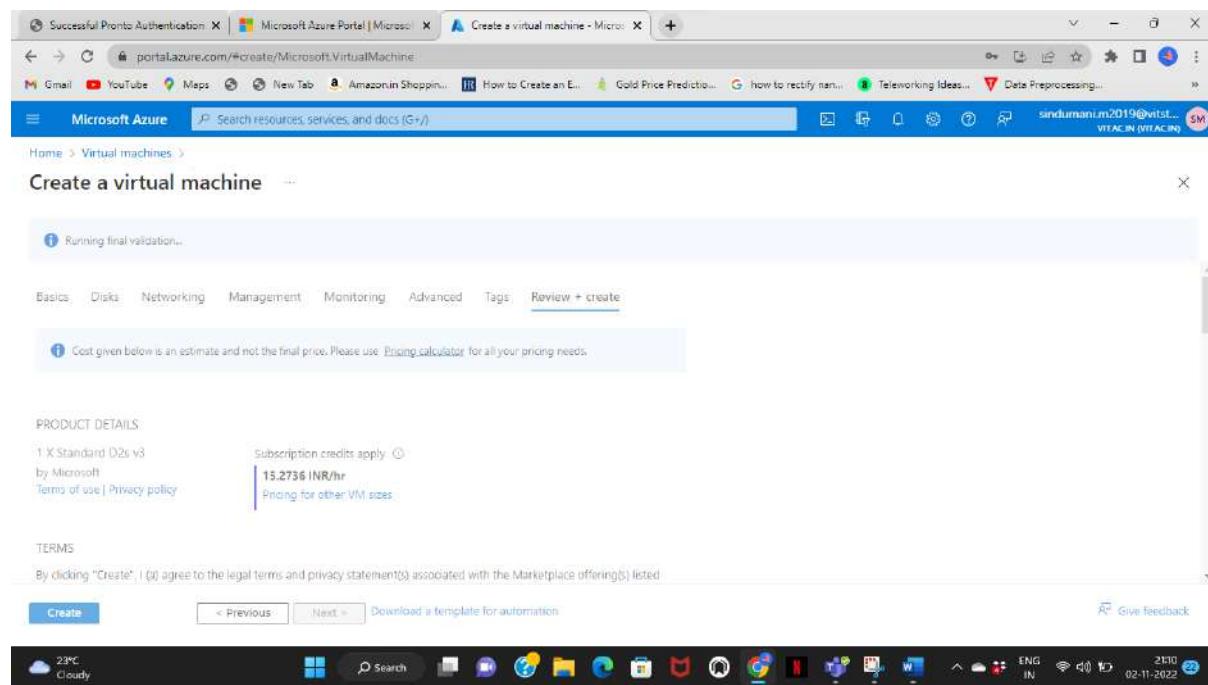
Cloudy 23°C Search ENG IN 21:10 02-11-2022



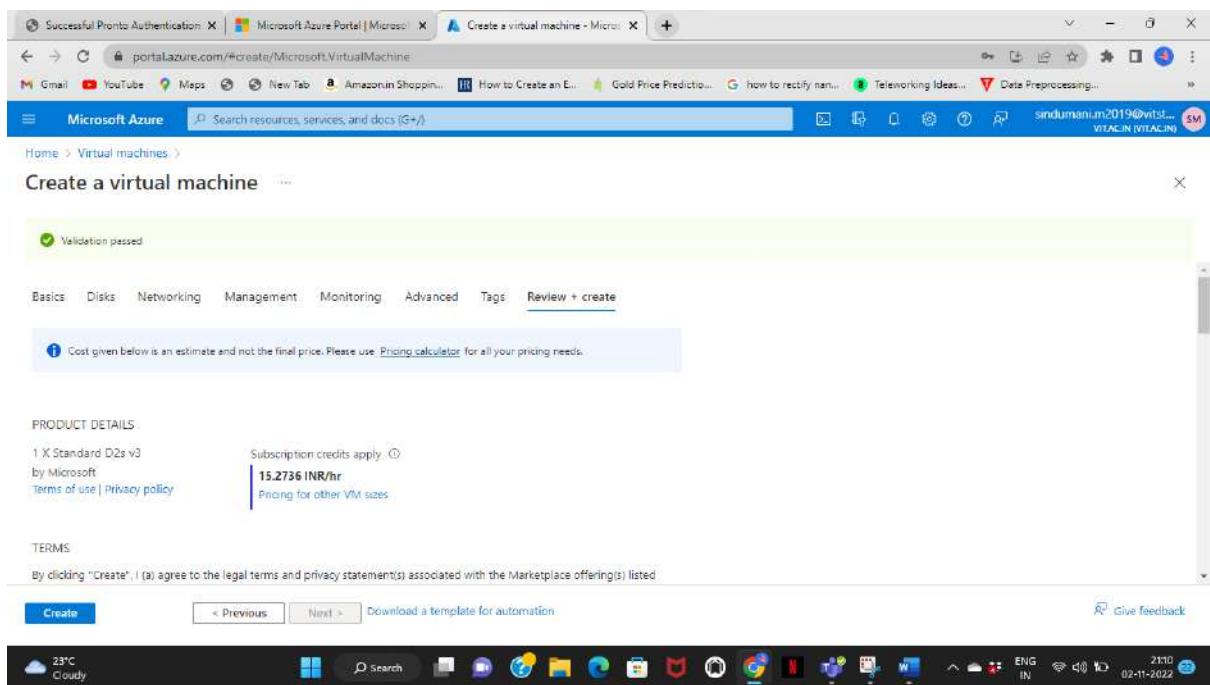
STEP 4:CLICKING REVIEW+CREATE TO VALIDATE THE VIRTUAL MACHINE



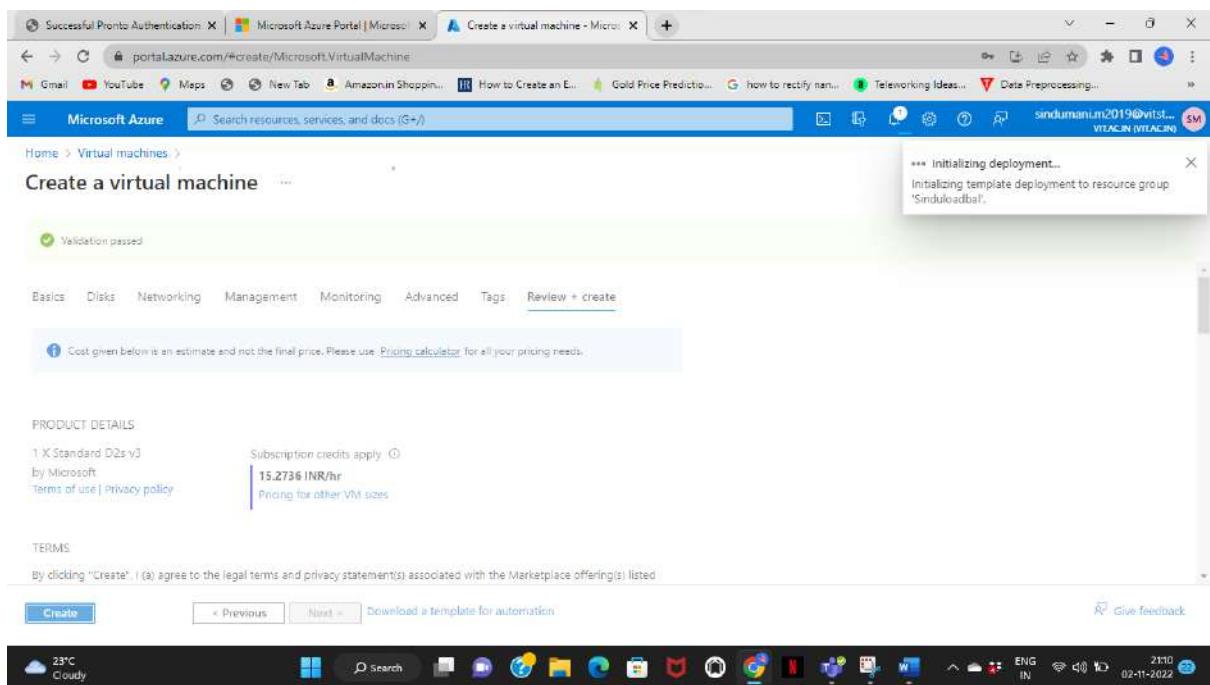
STEP 5:VALIDATION IS RUNNING



STEP 6: VALIDATION PASSED



STEP 7: CLICKING CREATE TO CREATE THE VIRTUAL MACHINE AND FOR DEPLOYMENT



STEP 8:DEPLOYMENT IS PROGRESSED

The screenshot shows the Microsoft Azure Portal with a deployment overview for a Windows Server VM. A tooltip indicates "Deployment in progress..." with the message "Deployment to resource group 'Sinduloadbal' is in progress." The deployment status is shown as "Deployment is in progress". Deployment details include a deployment name, subscription, and resource group. A "Deployment details" table is present, showing no results. The right sidebar features links for Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert.

STEP 9:DEPLOYMENT IS COMPLETED

The screenshot shows the Microsoft Azure Portal with a deployment overview for a Windows Server VM. The deployment status is now "Your deployment is complete". Deployment details show the same information as before. The right sidebar includes sections for Cost Management, Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert. The taskbar at the bottom shows system icons and the date/time as 02-11-2022.

STEP 10:SIMILARLY DOING ALL THE STEPS FOR CREATING VIRTUAL MACHINE2

Essentials

Resource group (managed)	: Sinduloadbal	Operating system	: Windows (Windows Server 2019 Datacenter)
Status	: Running	Size	: Standard D2s v3 (2 vcpus, 8 GB memory)
Location	: West Europe	Public IP address	: -
Subscription (managed)	: Azure for Students	Virtual network/subnet	: -
Subscription ID	: e010da47-f604-4e12-99f3-d238f978f58b	DNS name	: -
Tags (edit)	: Click here to add tags	JSON View	

Properties **Monitoring** **Capabilities (8)** **Recommendations** **Tutorials**

Virtual machine

Computer name	: loadbal
Health state	: -
Operating system	: Windows (Windows Server 2019 Datacenter)
Publisher	: MicrosoftWindowsServer
Offer	: WindowsServer

Networking

Public IP address	: -
Public IP address (IPv6)	: -
Private IP address	: -
Private IP address (IPv6)	: -
Virtual network/subnet	: -

Plan

2019-datacenter-gensecond	DNS name	Configure
---------------------------	----------	-----------

Size

Standard D2s v3	Size
2	vCPUs
8 GB	RAM

Disk

loadbal_OsDisk_1_1fb70ec6e2534248b08c5584f5394d4	OS disk
Disabled	Encryption at host
Not enabled	Azure disk encryption
N/A	Ephemeral OS disk
0	Data disks

Availability + scaling

-	Availability zone
-	Availability set
-	Scale Set

Auto-shutdown

Not enabled	Auto-shutdown
-	Scheduled shutdown

Successful Pronto Authentication | Microsoft Azure Portal | Microsoft | loadbal - Microsoft Azure | +

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20221102210642 | Overview >

loadbal Virtual machine

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Settings Networking Connect Windows Admin Center Disks Size Microsoft Defender for Cloud Advisor recommendations Extensions + applications

Colocation status: N/A Capacity reservation group: - Availability + scaling Availability zone: - Availability set: - Scale Set: - Security type Security type: Standard Extensions: - Applications: - Auto-shutdown Auto-shutdown: Not enabled Scheduled shutdown: - Azure Spot Azure Spot: - Azure Spot eviction policy: -

Encryption at rest: Disabled Azure disk encryption: Not enabled Ephemeral OS disk: N/A Data disks: 0

CLI / PS Feedback

Connect Start Stop Capture Delete Refresh Open in mobile

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ENG IN 21:14 02-11-2022

Successful Pronto Authentication | Microsoft Azure Portal | Microsoft | Home - Microsoft Azure | +

Home - Microsoft Azure | +

Microsoft Azure | Search resources, services, and docs (G+)

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Azure services

Create a resource Virtual machines Load balancers App Services Storage accounts Quickstart Center More services

+ Create View

Recent Resources

Name	Type	Last Viewed
loadbal	Virtual machine	a minute ago
Sinduloadbal	Resource group	3 minutes ago

See all

Navigate

Subscriptions Resource groups All resources Dashboard

https://portal.azure.com/#blade/HubsExtension/BrowseResourceblade/resourceby...

23°C Cloudy Search

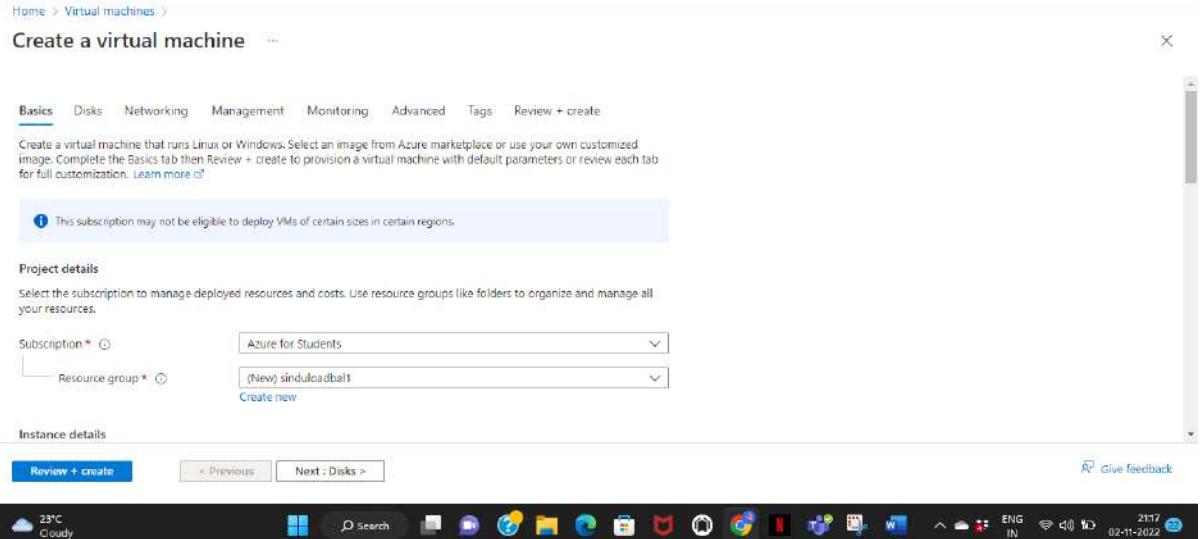
ENG IN 21:15 02-11-2022

Screenshot of Microsoft Azure Portal showing the Virtual machines page. A single virtual machine named "loadbal" is listed.

Name	Type	Subscription	Resource group	Location	Status	Operating system	Size	Public IP
loadbal	Virtual machine	Azure for Students	Sinduloadbal	West Europe	Running	Windows	Standard_D2s_v8	20.103.24



Screenshot of Microsoft Azure Portal showing the Create a virtual machine page.



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portal.azure.com/#create/Microsoft.VirtualMachine

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Microsoft Azure Search resources, services, and docs (G+)

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Home > Virtual machines >

Create a virtual machine

Instance details

Virtual machine name *

Region *

Availability options

Security type

Image * See all images | Configure VM generation

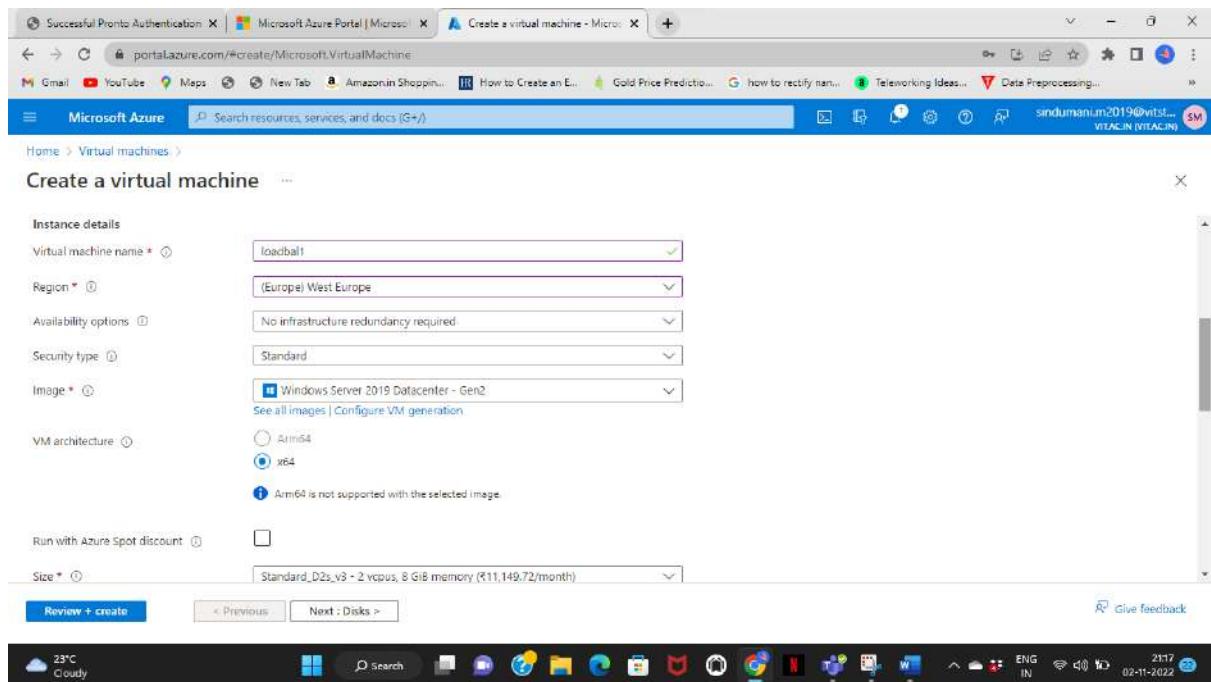
VM architecture x64
 Arm64
Arm64 is not supported with the selected image.

Run with Azure Spot discount

Size * See all sizes

Review + create < Previous Next : Disks > Give feedback

Cloudy 23°C Search File Explorer Task View Taskbar ENG IN 23:17 02-11-2022



Successful Pronto Authentication | Microsoft Azure Portal | Microsoft | Create a virtual machine - Microsoft | +

portal.azure.com/#create/Microsoft.VirtualMachine

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Microsoft Azure Search resources, services, and docs (G+)

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Home > Virtual machines >

Create a virtual machine

Size * See all sizes

Administrator account

Username *

Password *

Confirm password *

Inbound port rules

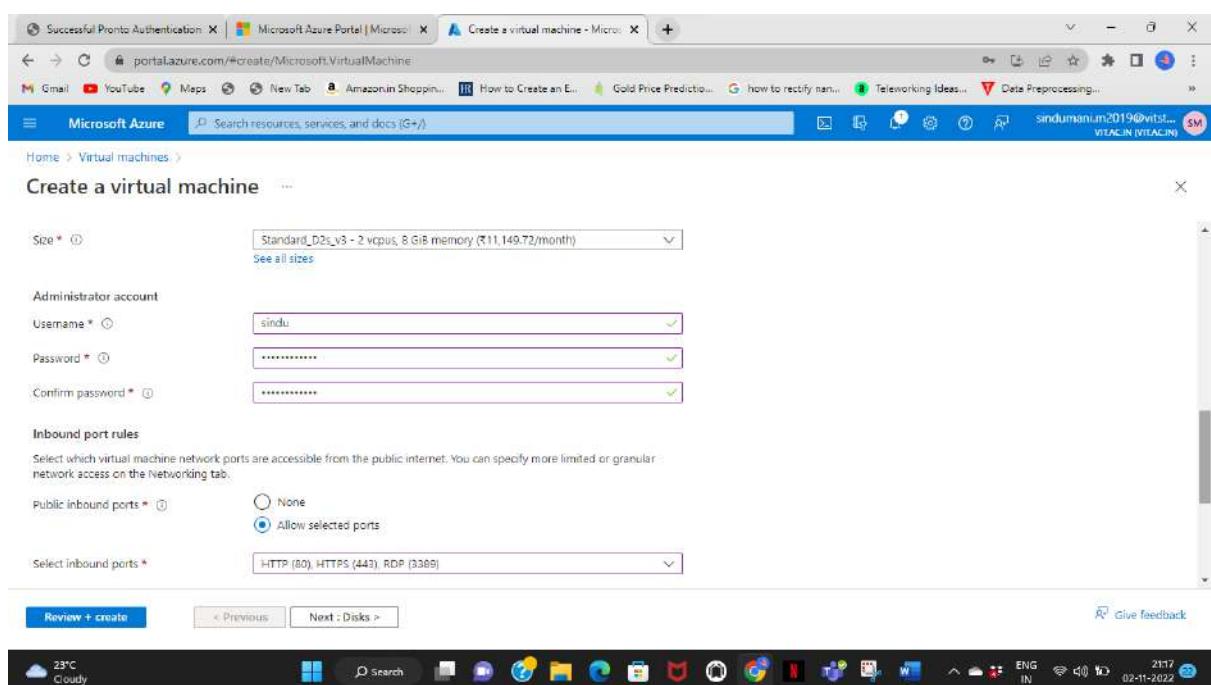
Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * None
 Allow selected ports

Select inbound ports *

Review + create < Previous Next : Disks > Give feedback

Cloudy 23°C Search File Explorer Task View Taskbar ENG IN 23:17 02-11-2022



The screenshot shows the Microsoft Azure Portal with the URL <https://portal.azure.com/#create/Microsoft.VirtualMachine>. The page title is "Create a virtual machine - Microsoft Virtual Machine". The main content area is titled "Create a virtual machine" and shows the "Networking" tab selected. Under "Public inbound ports", the "Allow selected ports" option is selected, and "HTTP (80), HTTPS (443), RDP (3389)" are listed. A warning message states: "This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses." Below this, there are sections for "Licensing" (with a note about saving up to 49% with a license) and "Would you like to use an existing Windows Server license?". At the bottom, there are "Review + create" and "Next : Disks >" buttons.

The screenshot shows the Microsoft Azure Portal with the same URL and title as the previous screenshot. The main content area is titled "Create a virtual machine" and shows the "Networking" tab selected. The "Virtual network" dropdown is set to "(new) sinduloadbal1-vnet", "Subnet" is set to "(new) default (10.1.0.0/24)", and "public IP" is set to "(new) loadbal1-ip". The "NIC network security group" dropdown has "Basic" selected. At the bottom, there are "Review + create" and "Next : Management >" buttons.

Screenshot of the Microsoft Azure Portal showing the 'Create a virtual machine' wizard. The 'Networking' step is displayed.

Public inbound ports *

- Advanced
- None
- Allow selected ports

Select inbound ports:

Warning: This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Delete public IP and NIC when VM is deleted

Enable accelerated networking

Load balancing

[Review + create](#) [Previous](#) [Next : Management >](#) [Give feedback](#)

Cloudy 23°C Search File Internet Explorer Edge Google Chrome Netflix WPS Office ENG IN 23:18 02-11-2022 VITACIN (VITACIN)

Screenshot of the Microsoft Azure Portal showing the 'Create a virtual machine' wizard. The 'Networking' step is displayed.

Select inbound ports *

Select inbound ports:

Warning: This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Delete public IP and NIC when VM is deleted

Enable accelerated networking

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Place this virtual machine behind an existing load balancing solution?

[Review + create](#) [Previous](#) [Next : Management >](#) [Give feedback](#)

Cloudy 23°C Search File Internet Explorer Edge Google Chrome Netflix WPS Office ENG IN 23:18 02-11-2022 VITACIN (VITACIN)

Select Inbound ports: HTTP (80), HTTPS (443), RDP (3389)

⚠️ This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Delete public IP and NIC when VM is deleted

Enable accelerated networking

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Place this virtual machine behind an existing load balancing solution?

Review + create < Previous Next : Management > Give feedback

Pricing calculator for all your pricing needs.' A warning message at the top states: 'You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.' Below are tabs for Basics, Disks, Networking, Management, Monitoring, Advanced, Tags, and Review + create. At the bottom are 'Create', '< Previous', 'Next >', 'Download a template for automation', and 'Give feedback' buttons."/>

Running final validation...

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

⚠️ You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

Basics

Subscription: Azure for Students
Resource group: (new!) sindulcloudlab1

Create < Previous Next > Download a template for automation Give feedback

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portal.azure.com/#create/Microsoft.VirtualMachine

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Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual machines > Create a virtual machine

Validation passed

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

PRODUCT DETAILS

1 X Standard D2s v3 by Microsoft Subscription credits apply ⓘ 15.2736 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

Create < Previous Next > Download a template for automation Give feedback

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portal.azure.com/#create/Microsoft.VirtualMachine

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Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual machines > Create a virtual machine

*** Initializing deployment... Initializing template deployment to resource group 'sinducloudbal1'.

Validation passed

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

PRODUCT DETAILS

1 X Standard D2s v3 by Microsoft Subscription credits apply ⓘ 15.2736 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

Create < Previous Next > Download a template for automation Give feedback

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Successful Pronto Authentication | Microsoft Azure Portal | Microsoft | CreateVm-MicrosoftWindowsServer... | +

Home > CreateVm-MicrosoftWindowsServer... | Overview

Deployment

Search | Delete | Cancel | Redeploy | Download | Refresh

Overview Deployment is in progress

Inputs Outputs Template

Resource Type Status Operation details

No results.

Give feedback Tell us about your experience with deployment

Waiting for management.azure.com...

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Deployment to resource group 'sinduloadball' is in progress.

*** Deployment in progress...

Successful Pronto Authentication | Microsoft Azure Portal | Microsoft | CreateVm-MicrosoftWindowsServer... | +

Home > CreateVm-MicrosoftWindowsServer... | Overview

Deployment

Search | Delete | Cancel | Redeploy | Download | Refresh

Overview Deployment is complete

Inputs Outputs Template

Deployment name: CreateVm-MicrosoftWindowsServer... Start time: 11/2/2022, 9:18:59 PM
Subscription: Azure for Students Correlation ID: 79c03429-204a-44d4-b75b-dec
Resource group: sinduloadball

Deployment details

Next steps

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

Go to resource Create another VM

Give feedback Tell us about your experience with deployment

Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >

Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >

Free Microsoft tutorials
Start learning today >

Work with an expert

Cloudy 23°C Search ... ENG IN 21:22 02-11-2022

Successful Point Authentication | Microsoft Azure Portal | Microsoft | loadbal1 - Microsoft Azure | +

portal.azure.com/#@vit.ac.in/resource/subscriptions/e010da47-f604-4e12-99f3-d238f978f58b/resourcegroups/sinduloadbal1/providers/Microsoft.Compute/virtualMachines/loadbal1

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Microsoft Azure Search resources, services, and docs (G+)

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20221102211551 | Overview >

loadbal1 Virtual machine

Search Connect Start Restart Stop Capture Delete Refresh Open in mobile CLI / PS Feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Settings Networking Connect Windows Admin Center Disks Size Microsoft Defender for Cloud Advisor recommendations

Resource group (move) : sinduloadbal1 Status : Running Location : West Europe Subscription (move) : Azure for Students Subscription ID : e010da47-f604-4e12-99f3-d238f978f58b Tags (edit) : Click here to add tags

Operating system : Windows (Windows Server 2019 Datacenter) Size : Standard D2s v3 (2 vCPUs, 8 GiB memory) Public IP address : 40.115.13.71 Virtual network/subnet : sinduloadbal1-vnet/default DNS name : Not configured

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name	loadbal1
Health state	-
Operating system	Windows (Windows Server 2019 Datacenter)
Publisher	MicrosoftWindowsServer
Version	WindowsServer

Networking

Public IP address	40.115.13.71
Public IP address (IPv6)	-
Private IP address	10.1.0.4
Private IP address (IPv6)	-
Virtual network/subnet	sinduloadbal1-vnet/default

23°C Cloudy Search

https://portal.azure.com/#@vit.ac.in/resource/subscriptions/e010da47-f604-4e12-99f3-d238f978f58b/resourcegroups/sinduloadbal1/providers/Microsoft.Compute/virtualMachines/loadbal1

21:24 02-11-2022 ENG IN

Successful Point Authentication | Microsoft Azure Portal | Microsoft | loadbal1 - Microsoft Azure | +

portal.azure.com/#@vit.ac.in/resource/subscriptions/e010da47-f604-4e12-99f3-d238f978f58b/resourcegroups/sinduloadbal1/providers/Microsoft.Compute/virtualMachines/loadbal1

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Microsoft Azure Search resources, services, and docs (G+)

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20221102211551 | Overview >

loadbal1 Virtual machine

Search Connect Start Restart Stop Capture Delete Refresh Open in mobile CLI / PS Feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Settings Networking Connect Windows Admin Center Disks Size Microsoft Defender for Cloud Advisor recommendations Extensions + applications

Offer : WindowsServer Plan : 2019-datacenter-gensecond VM generation : V2 VM architecture : x64 Agent status : Ready Agent version : 2.7.41491.1057 Host group : None Host : Proximity placement group : Colocation status : N/A Capacity reservation group : Availability + scaling

Offer	WindowsServer	Virtual network/subnet	sinduloadbal1-vnet/default
Plan	2019-datacenter-gensecond	DNS name	Configure
VM generation	V2	Size	Standard D2s v3
VM architecture	x64	vCPUs	2
Agent status	Ready	RAM	8 GiB
Agent version	2.7.41491.1057	Disk	
Host group	None	OS disk	loadbal1_OsDisk_1_610fef5bd984aae991857ce7a07a784
Host	-	Encryption at host	Disabled
Proximity placement group	-	Azure disk encryption	Not enabled
Colocation status	N/A	Ephemeral OS disk	N/A
Capacity reservation group	-	Data disks	0

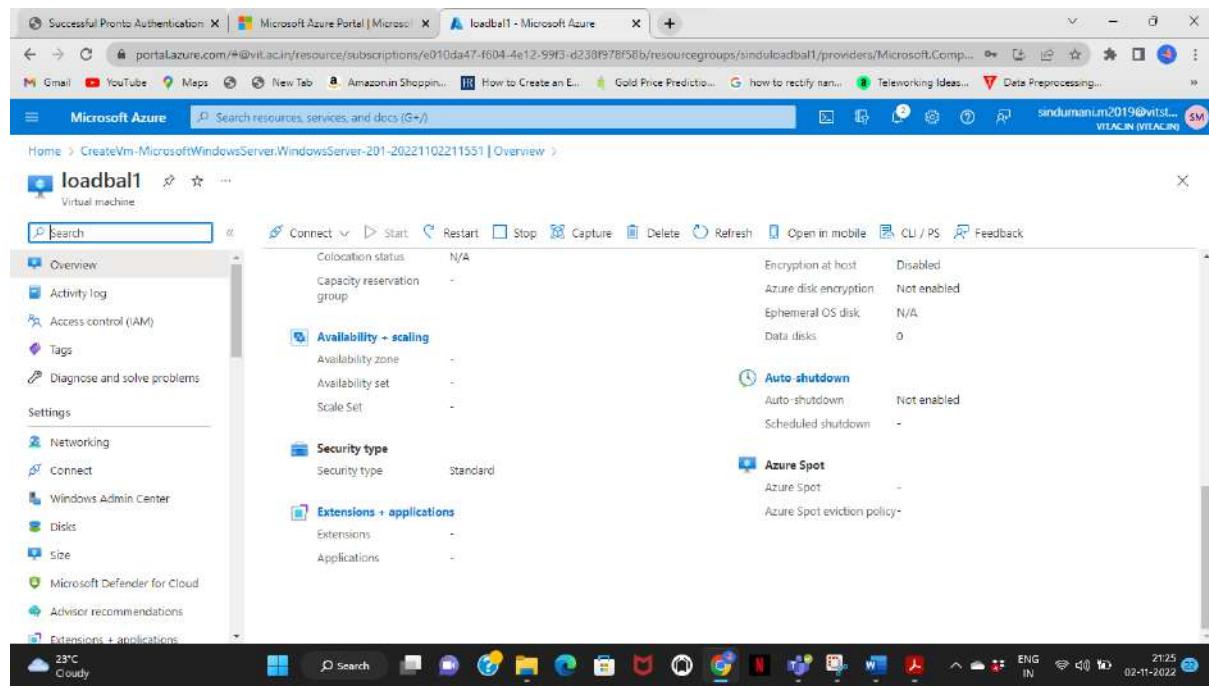
Auto-shutdown

Auto-shutdown	Not enabled
---------------	-------------

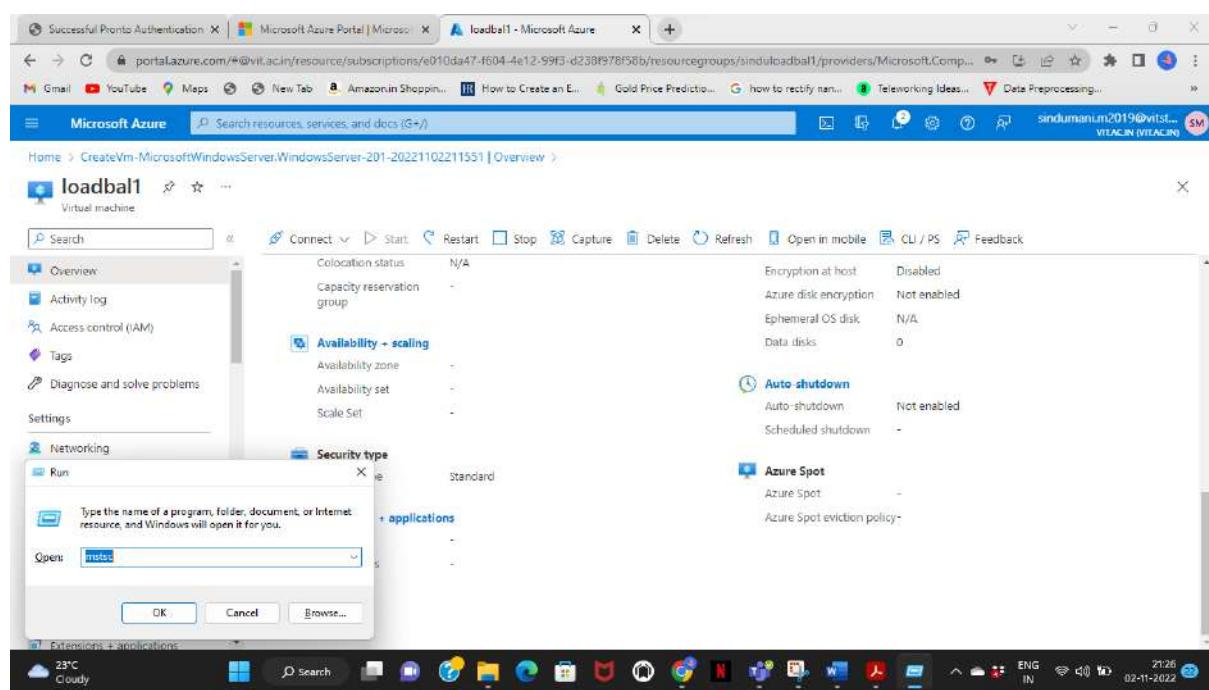
23°C Cloudy Search

https://portal.azure.com/#@vit.ac.in/resource/subscriptions/e010da47-f604-4e12-99f3-d238f978f58b/resourcegroups/sinduloadbal1/providers/Microsoft.Compute/virtualMachines/loadbal1

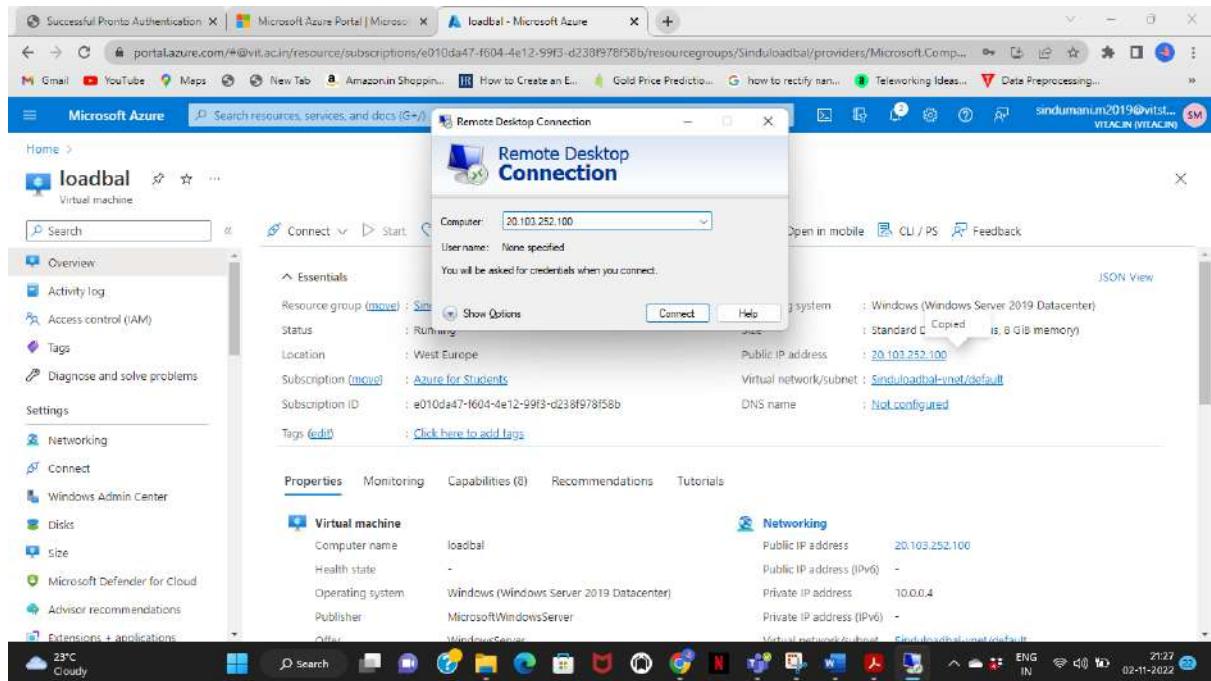
21:24 02-11-2022 ENG IN



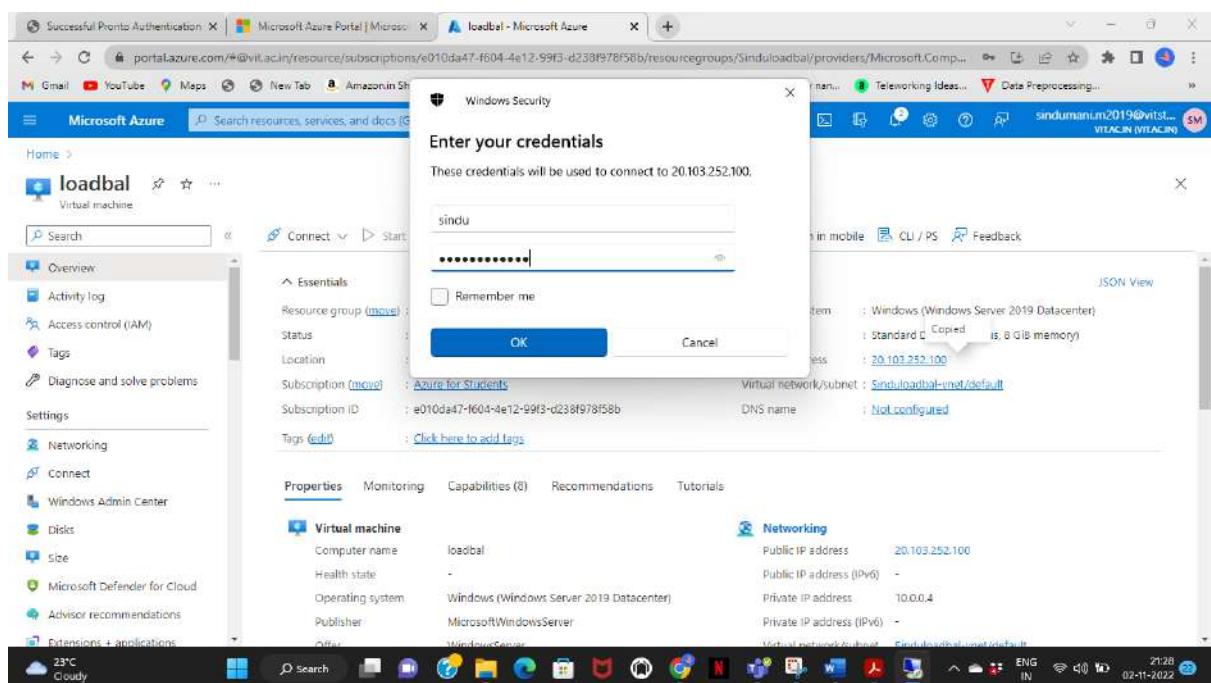
STEP 11:RUNNING THE COMMAND mstsc BY CLICKING WINDOWS+R



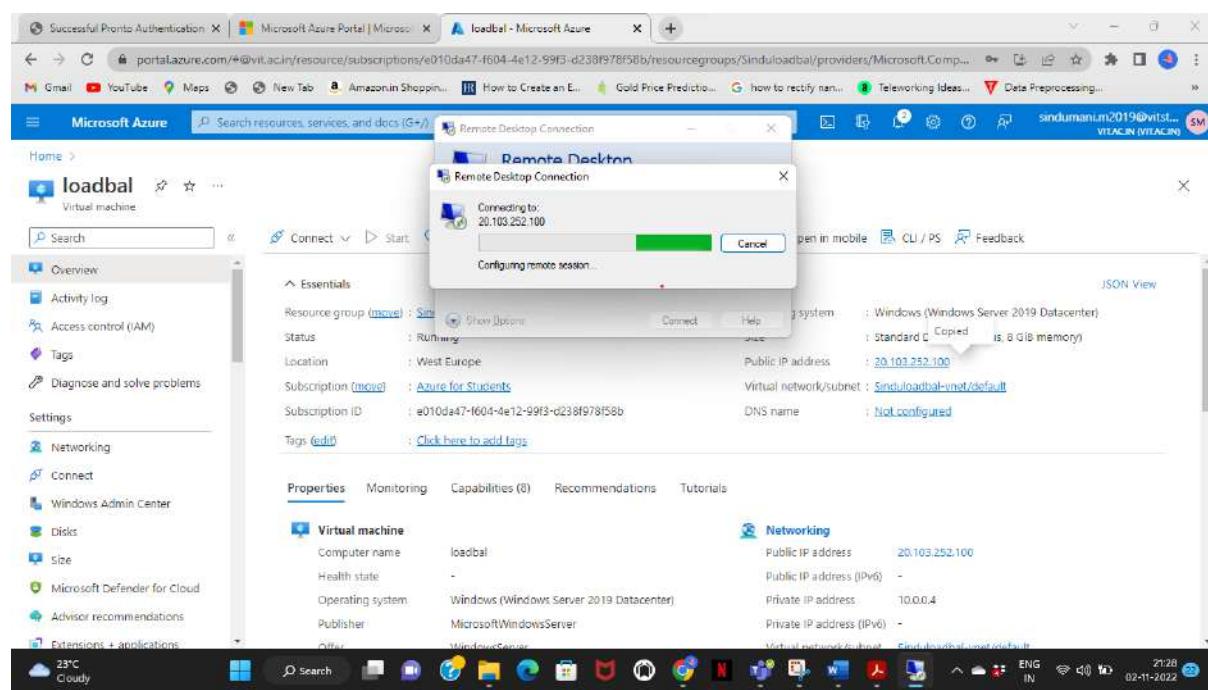
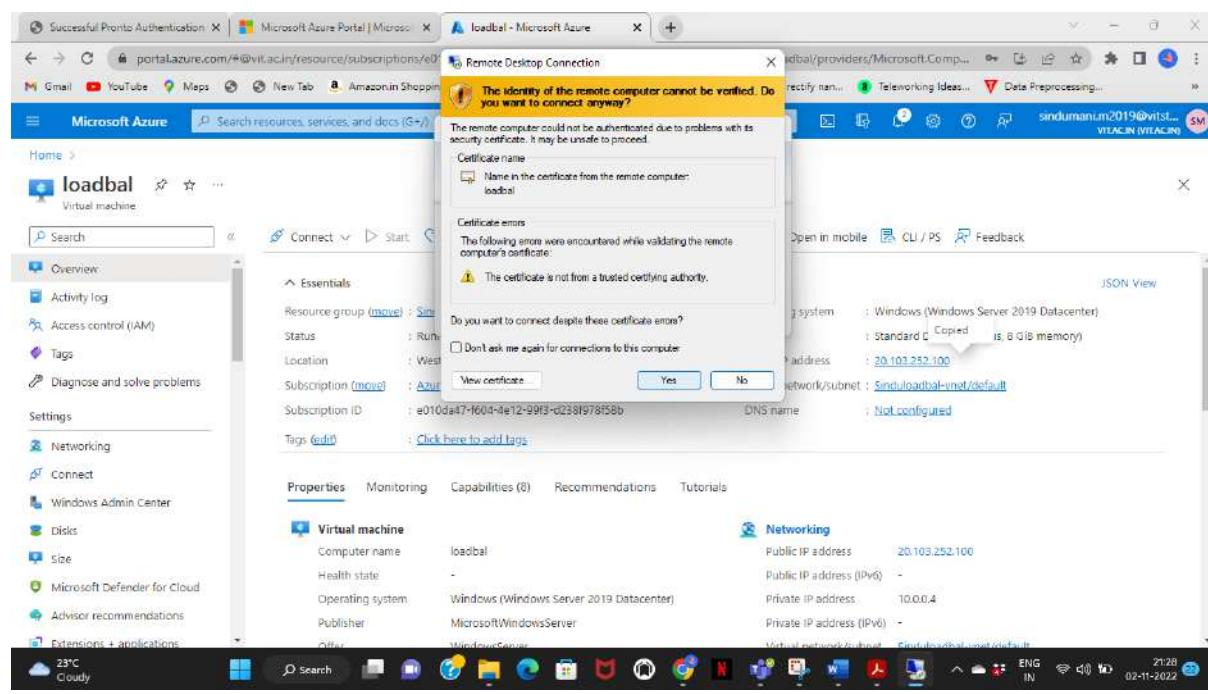
STEP 12:GIVING THE IP ADDRESS OF VIRTUAL MACHINE1 TO CONNECT



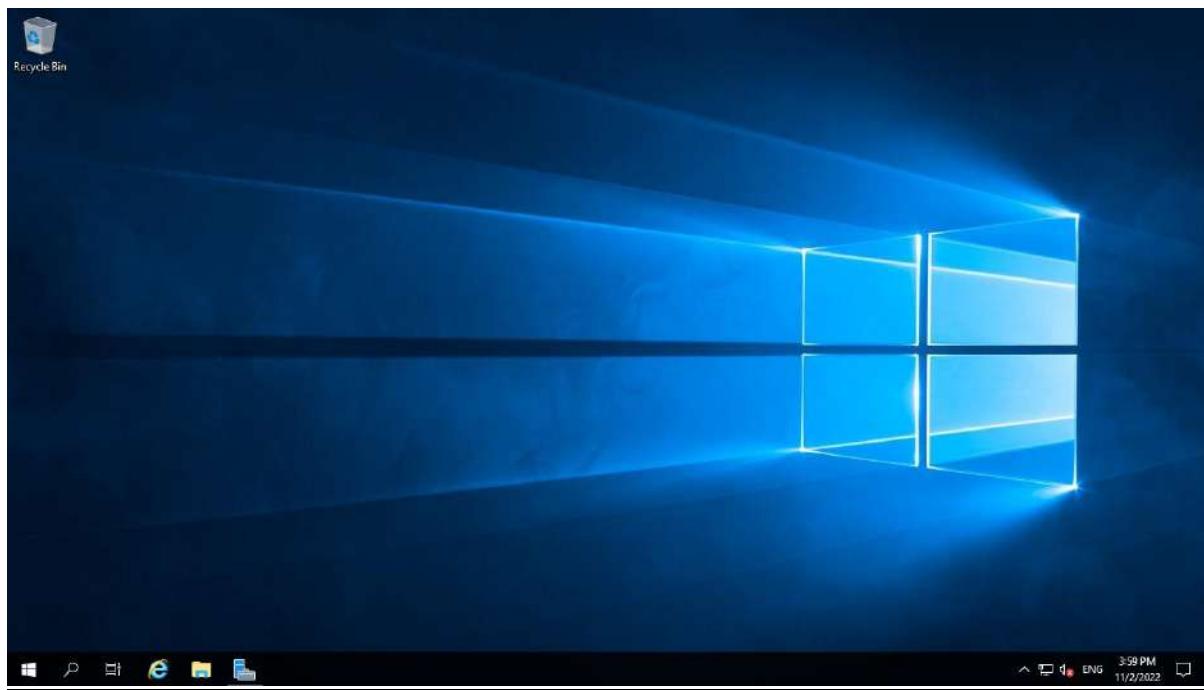
STEP 13:ENTERING THE USERNAME AND PASSWORD CREATED FOR VIRTUAL MACHINE1



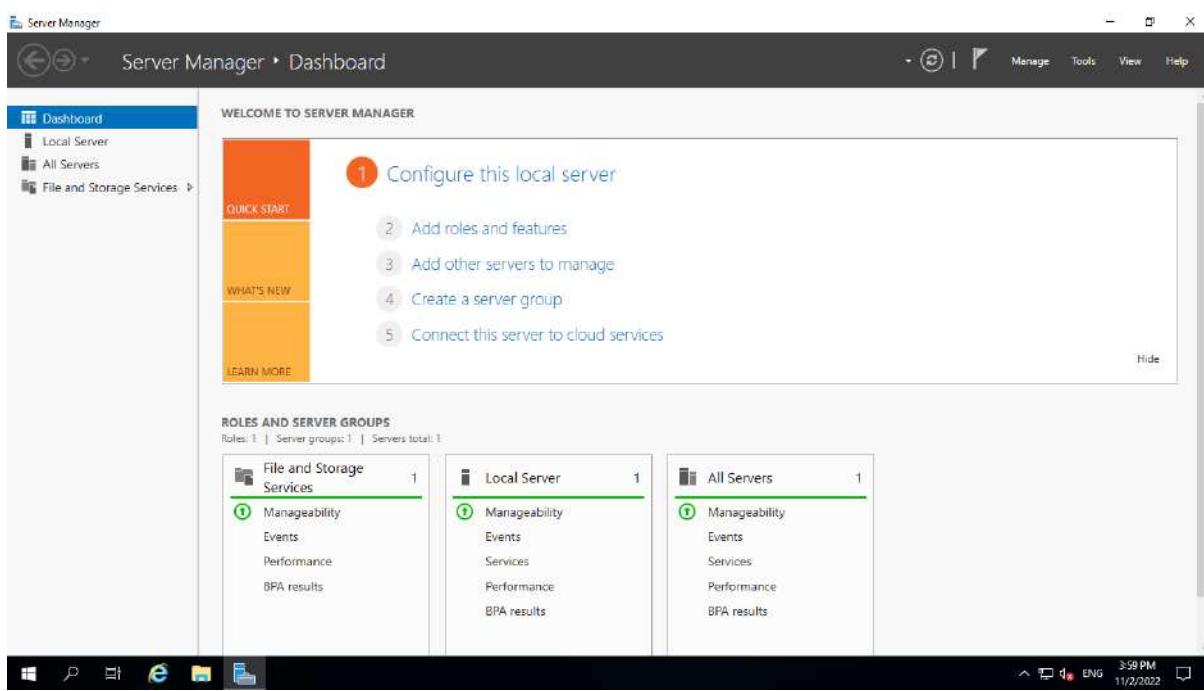
STEP 14:CLICKING YES AND CONNECTING



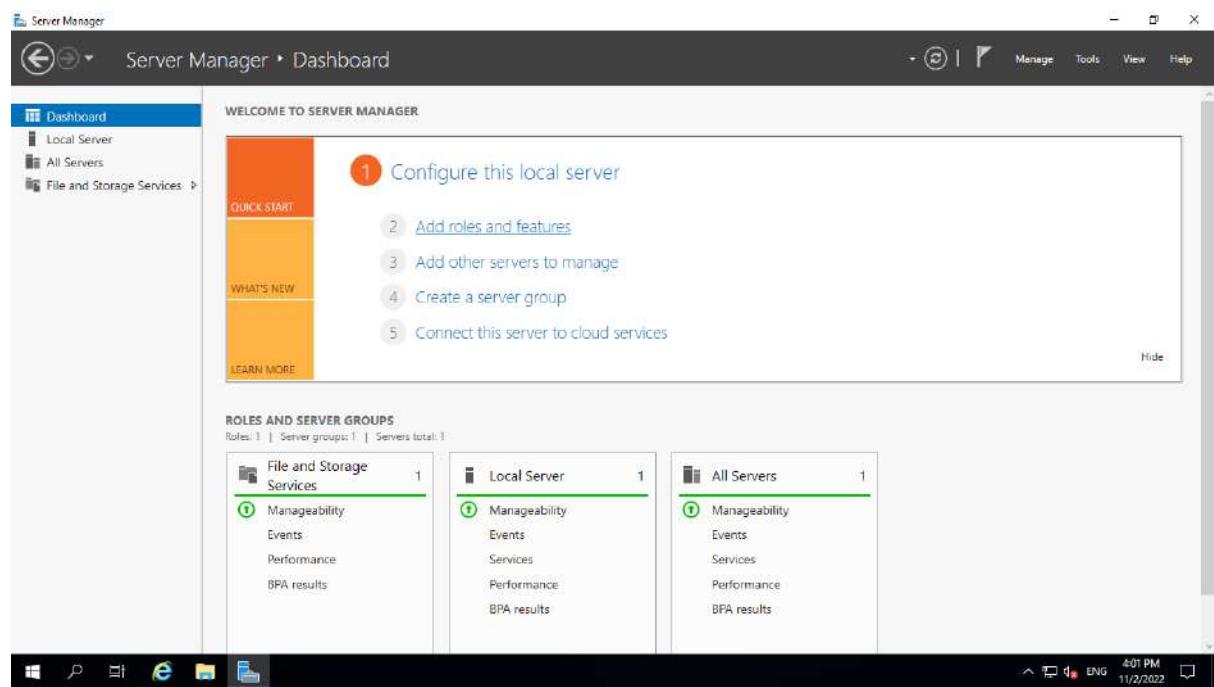
STEP 15:VIRTUAL MACHINE1 IS OPENED



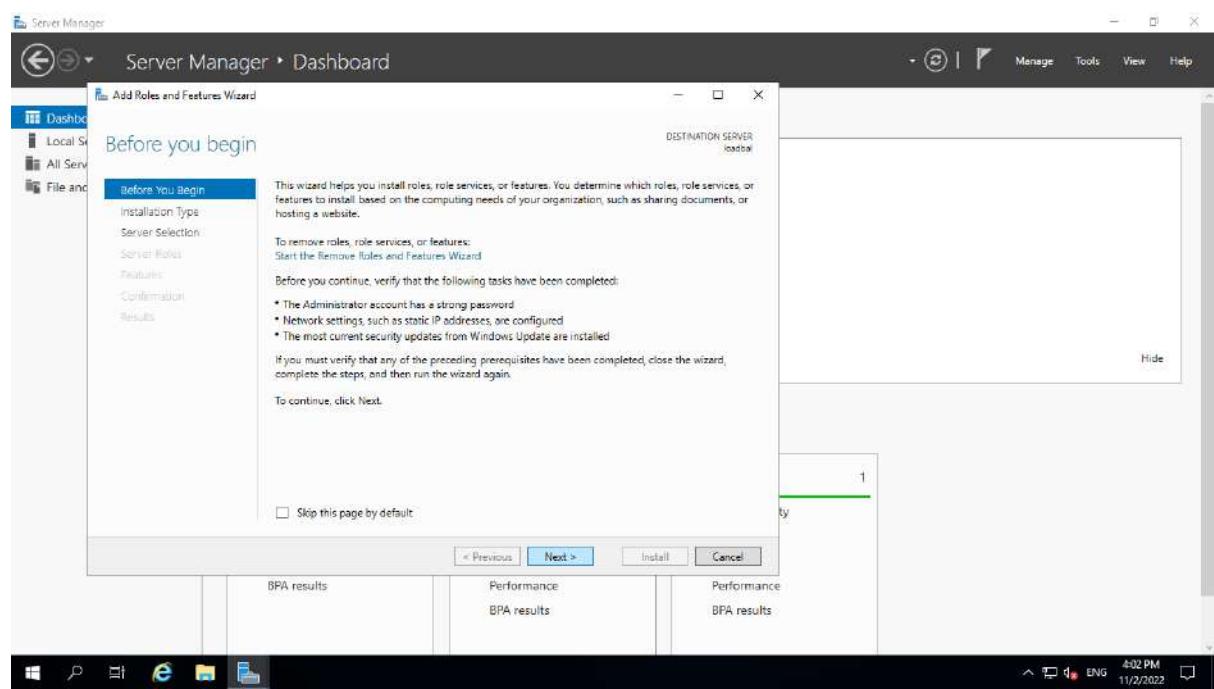
STEP 16:OPENING THE SERVER MANAGER DASHBOARD



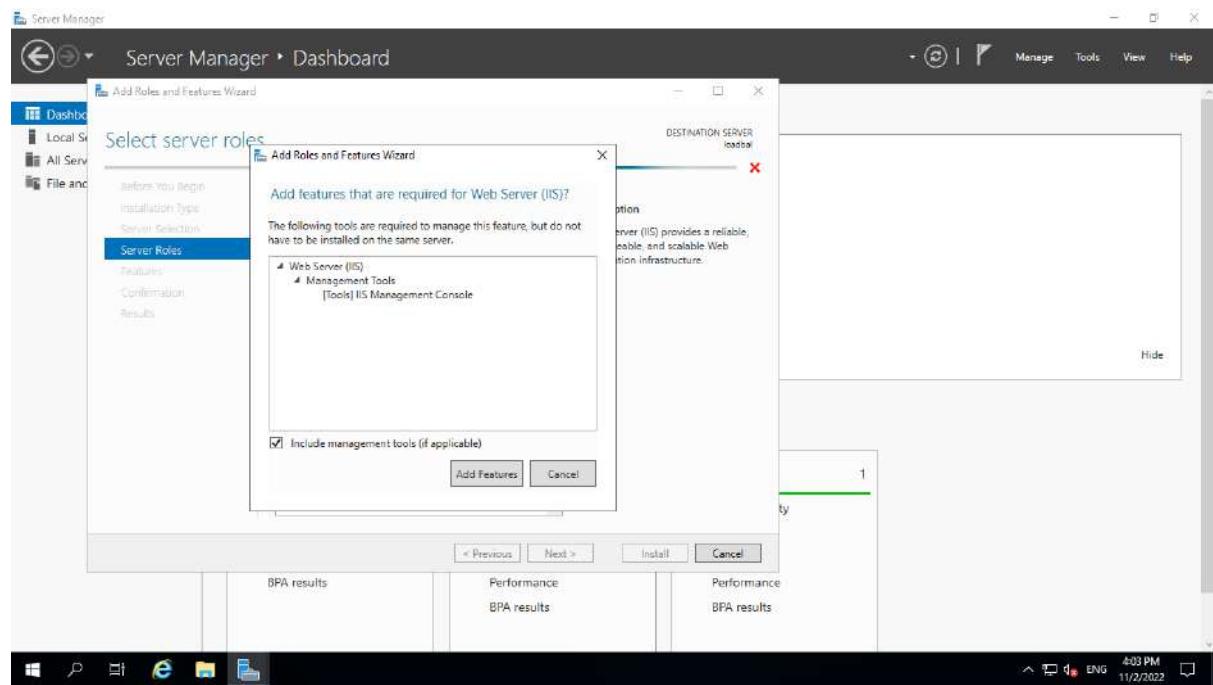
STEP 17:CLICKING ADD ROLES AND FEATURES



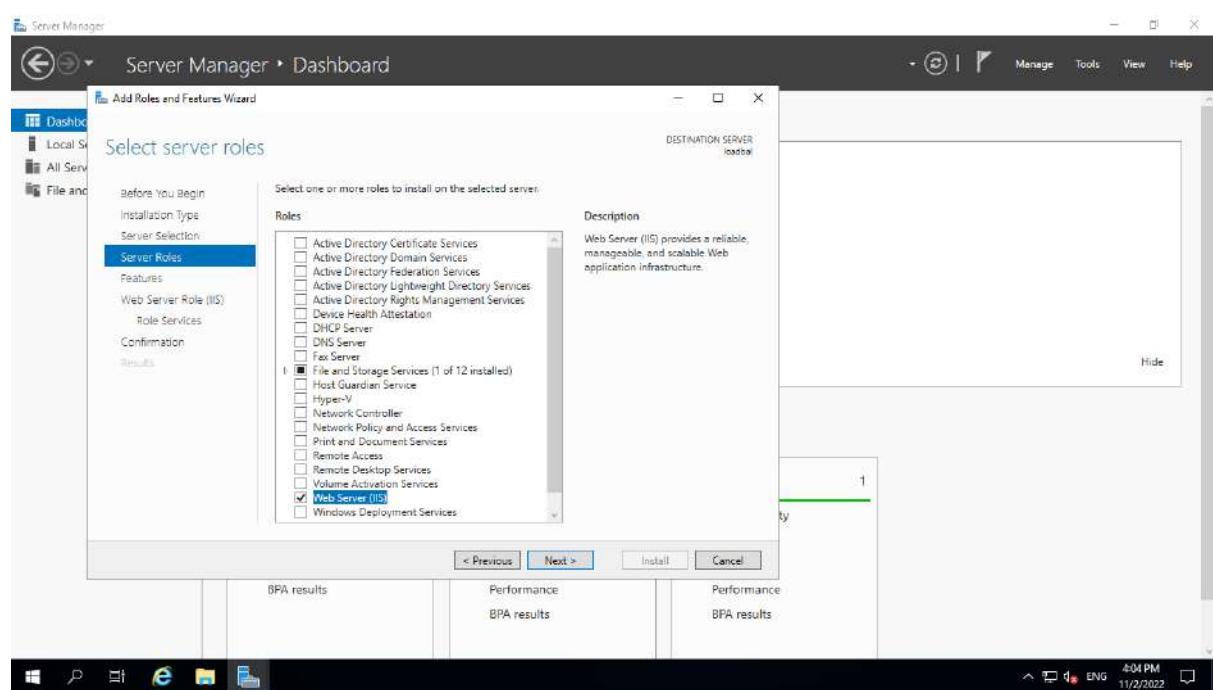
STEP 18:SETTING UP THE INSTALLATION BY GIVING NEXT UNTIL SERVER SECTION



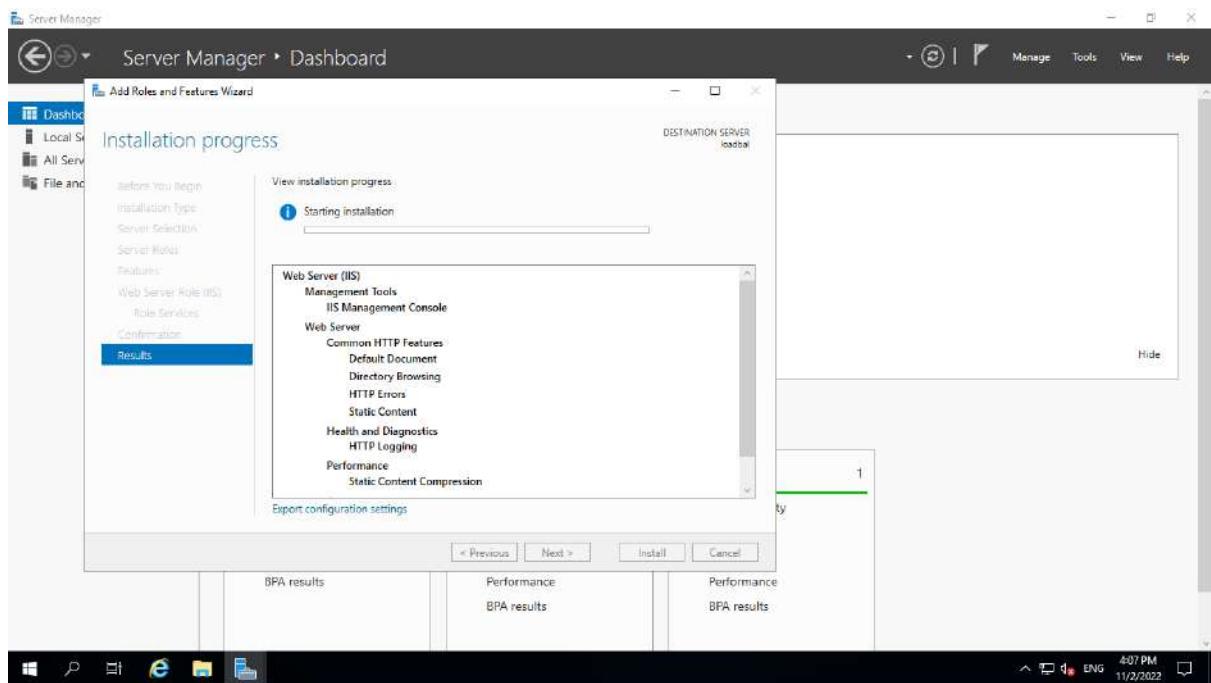
STEP 19:IN SERVER ROLES,CHOOSING WEB SERVER IIS



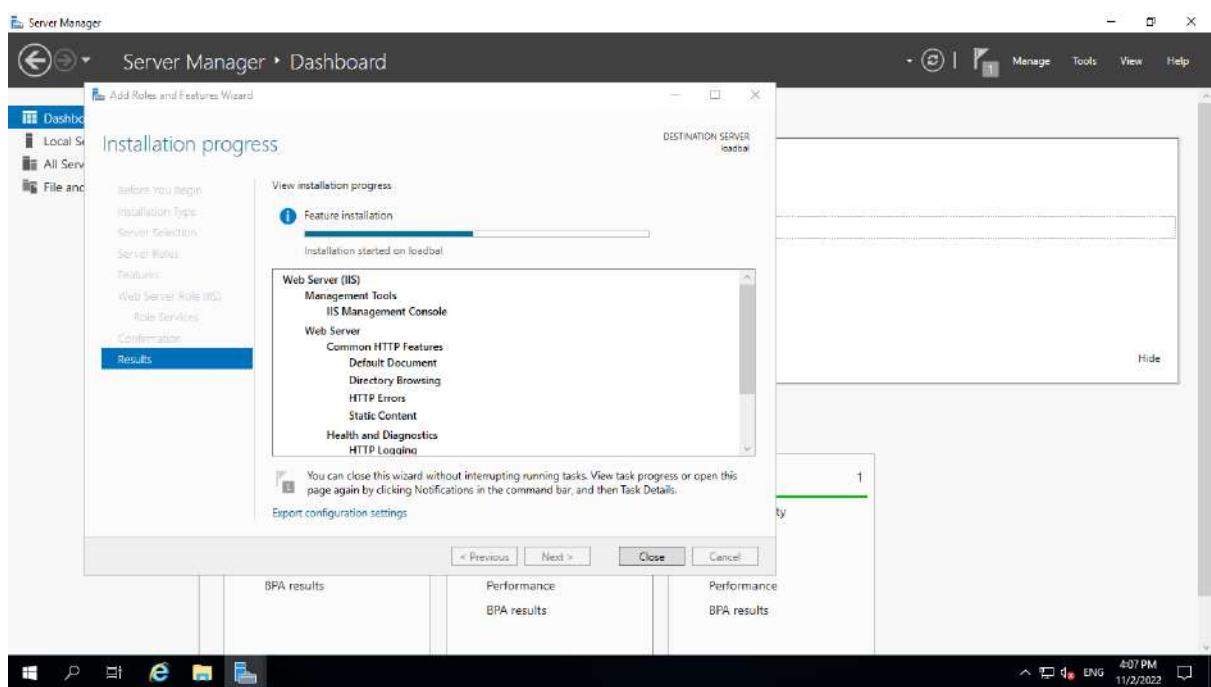
STEP 20:CLICKING NEXT TO ADD WEB SERVER IIS



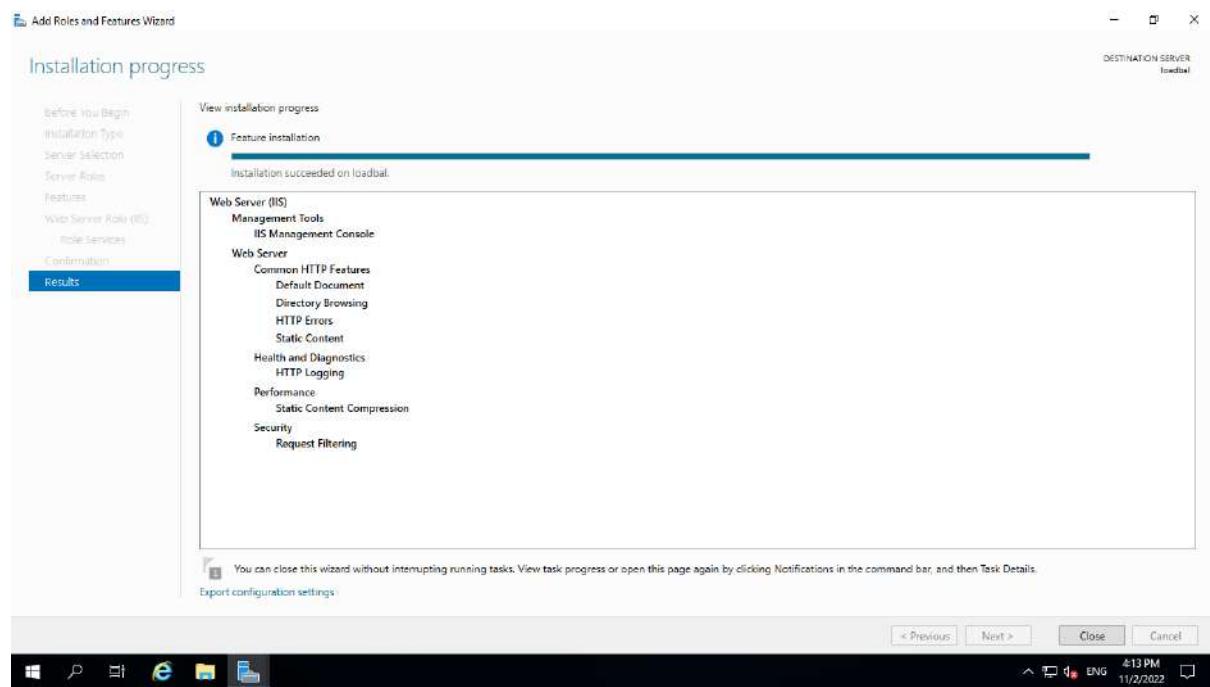
STEP 21:CLICKING NEXT UNTIL CONFIRMATION AND INSTALLATION IS PROGRESSED



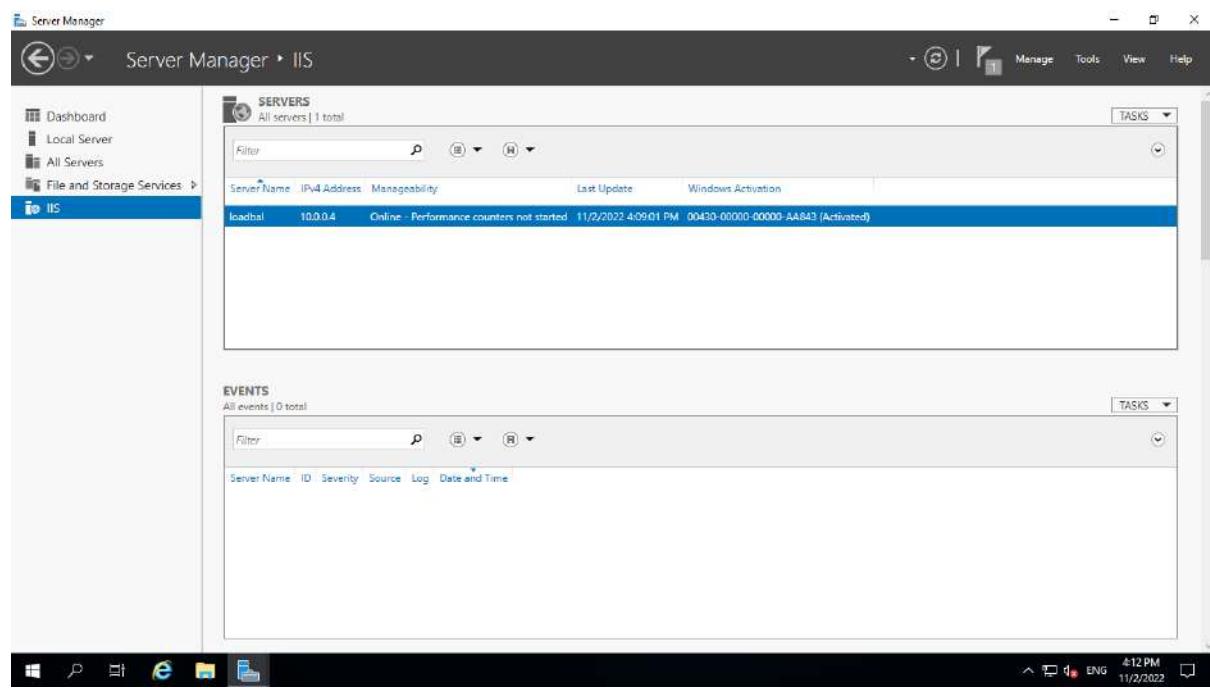
STEP 22:INSTALLATION IS IN PROGRESS



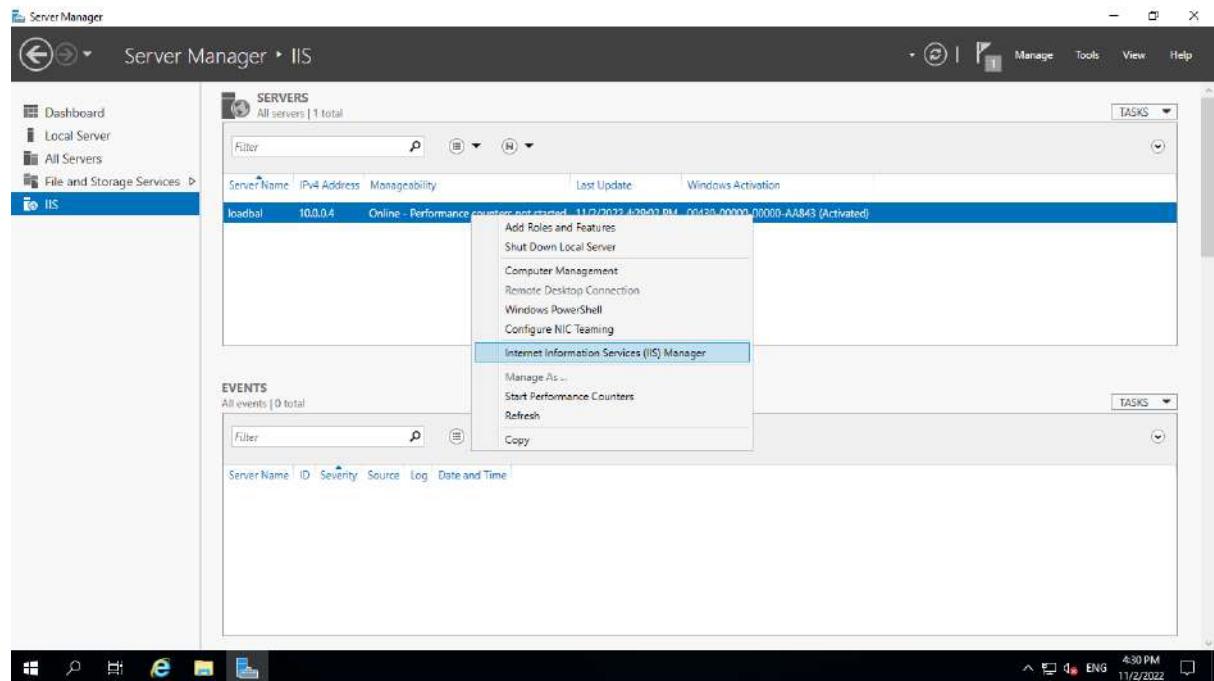
STEP 23:INSTALLATION IS COMPLETED



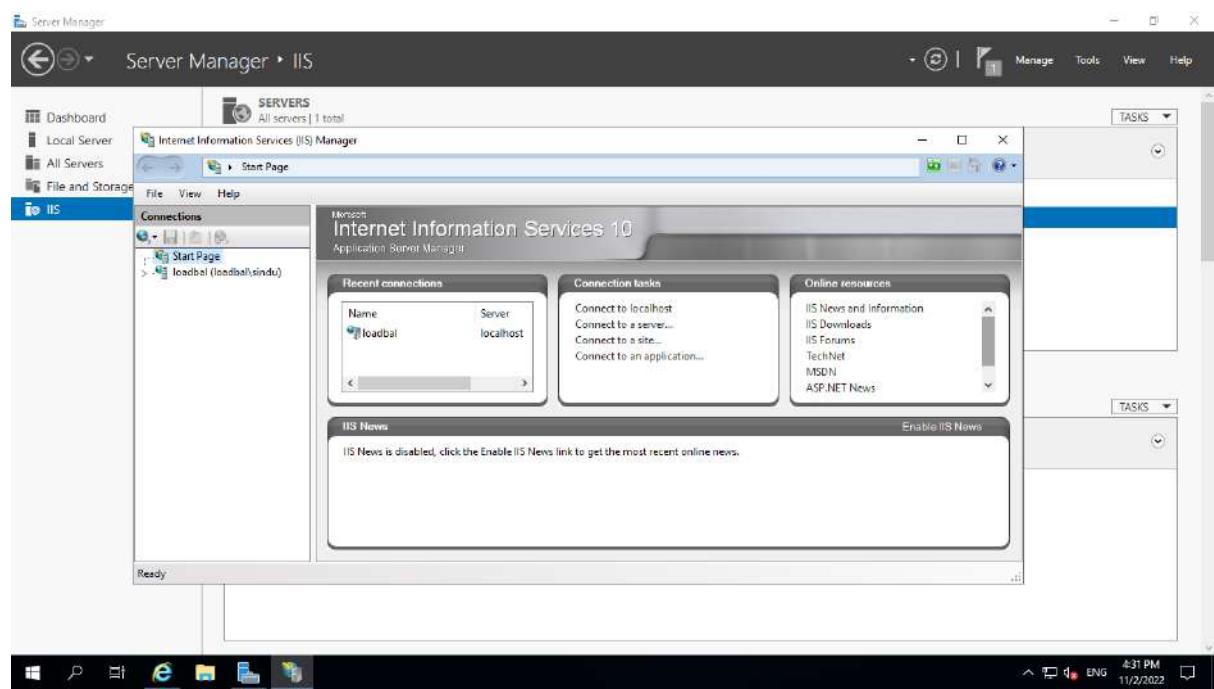
STEP 24:CLICKING IIS AND CHOOSING THE VIRTUAL MACHINE 1(loadbal)



STEP 25:RIGHT CLICKING AND CHOOSING INTERNET INFORMATION SERVERS(IIS)MANAGER



STEP 26:THE INFORMATION SERVICE(IIS)MANAGER IS OPENED

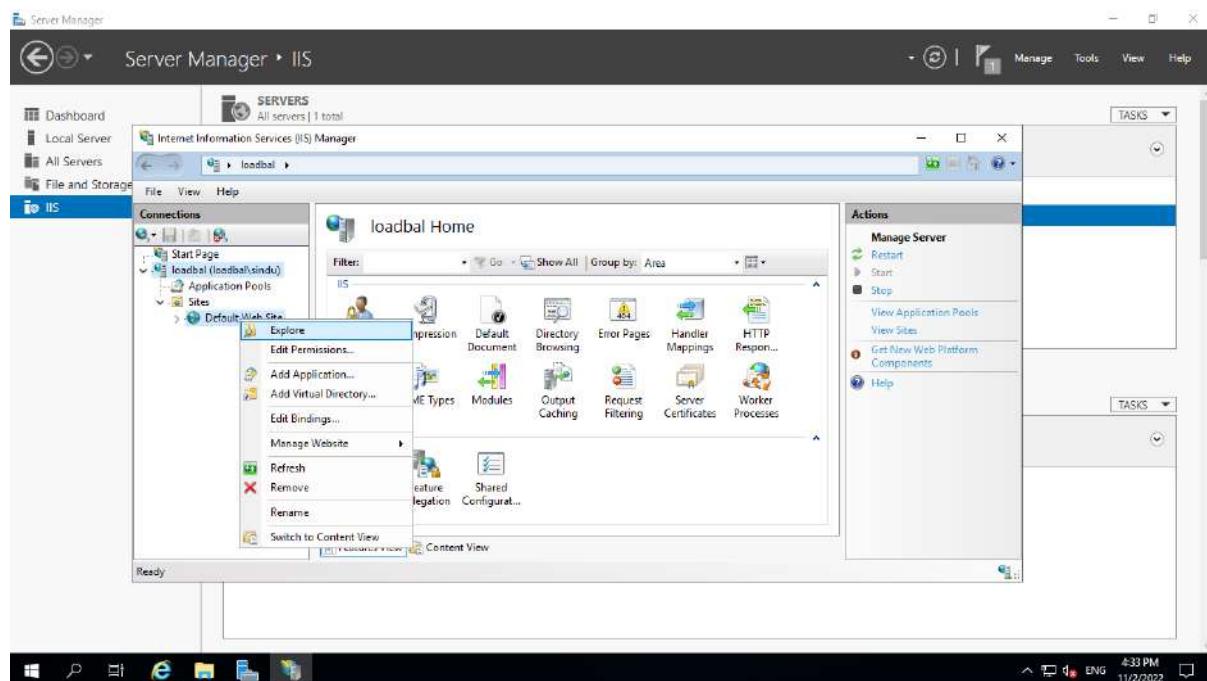


STEP 27:UNDER VIRTUAL MACHINE(LOADBAL)

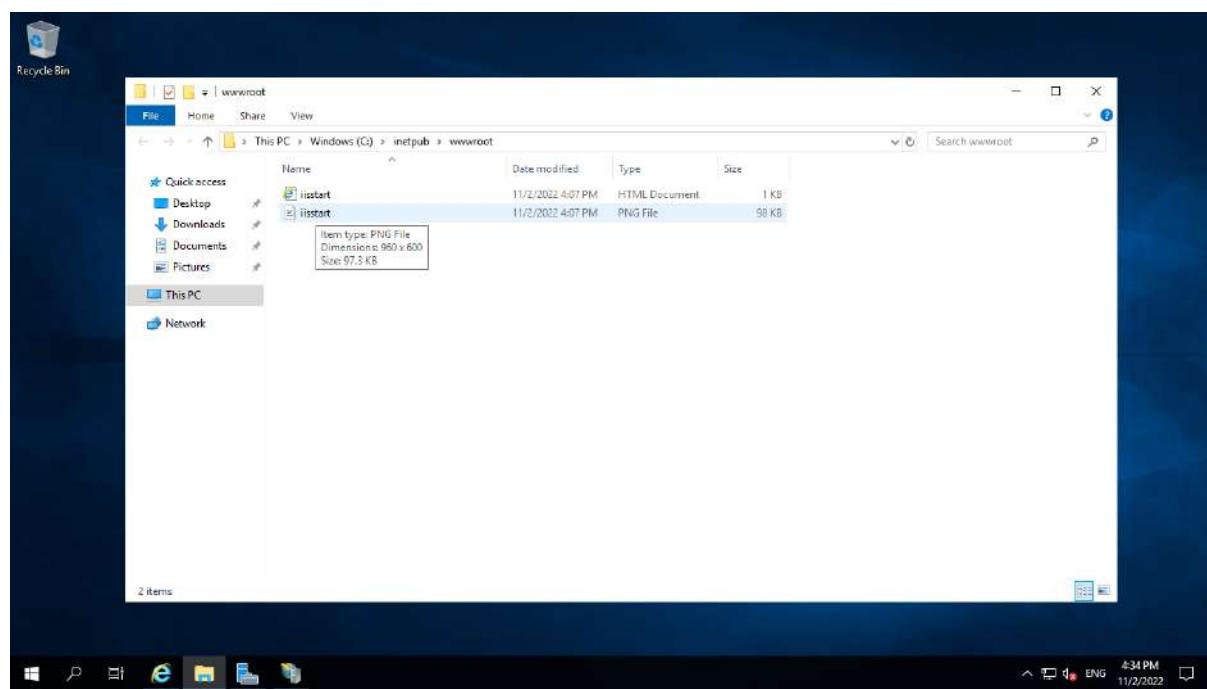
LOADBAL → SITES

SITES → DEFAULT SITES

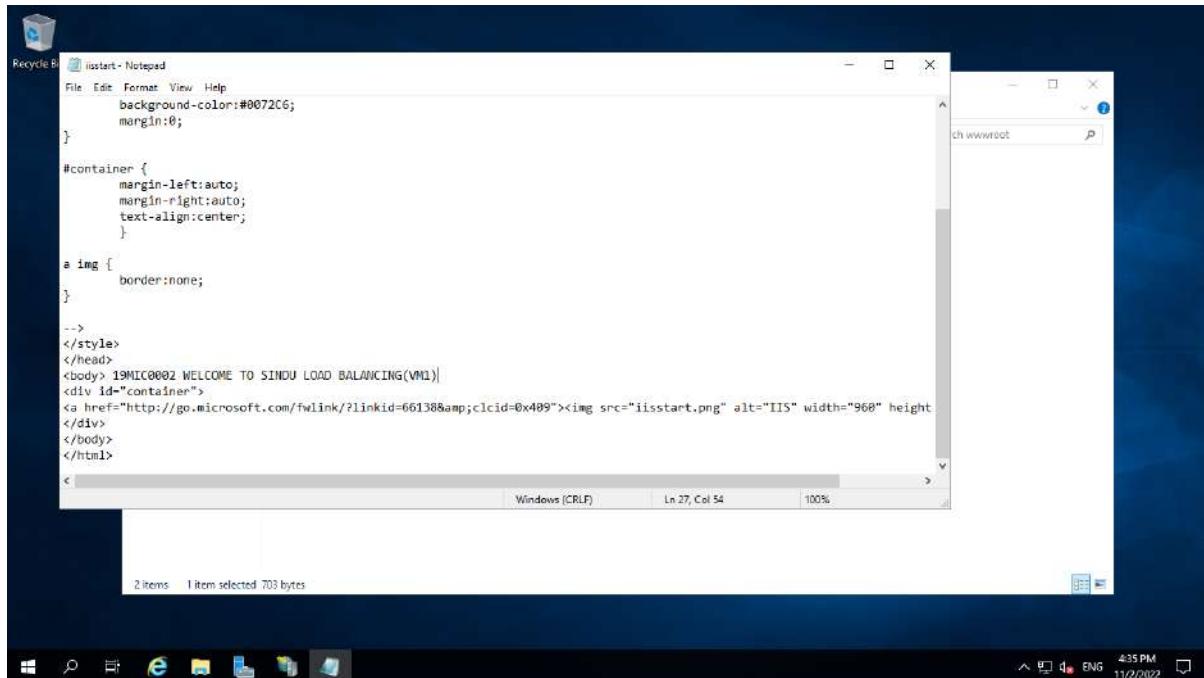
DEFAULT SITES → EXPLORE



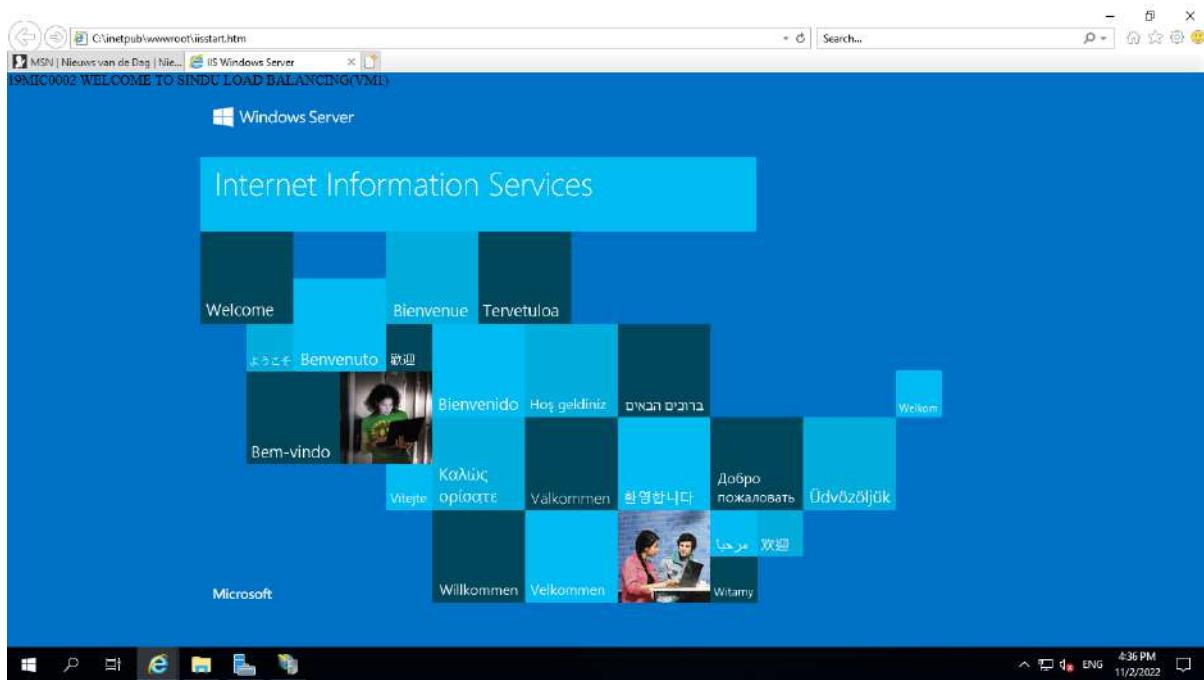
STEP 28:ON CLICKING EXPLORE THE iis FILES ARE OPENED



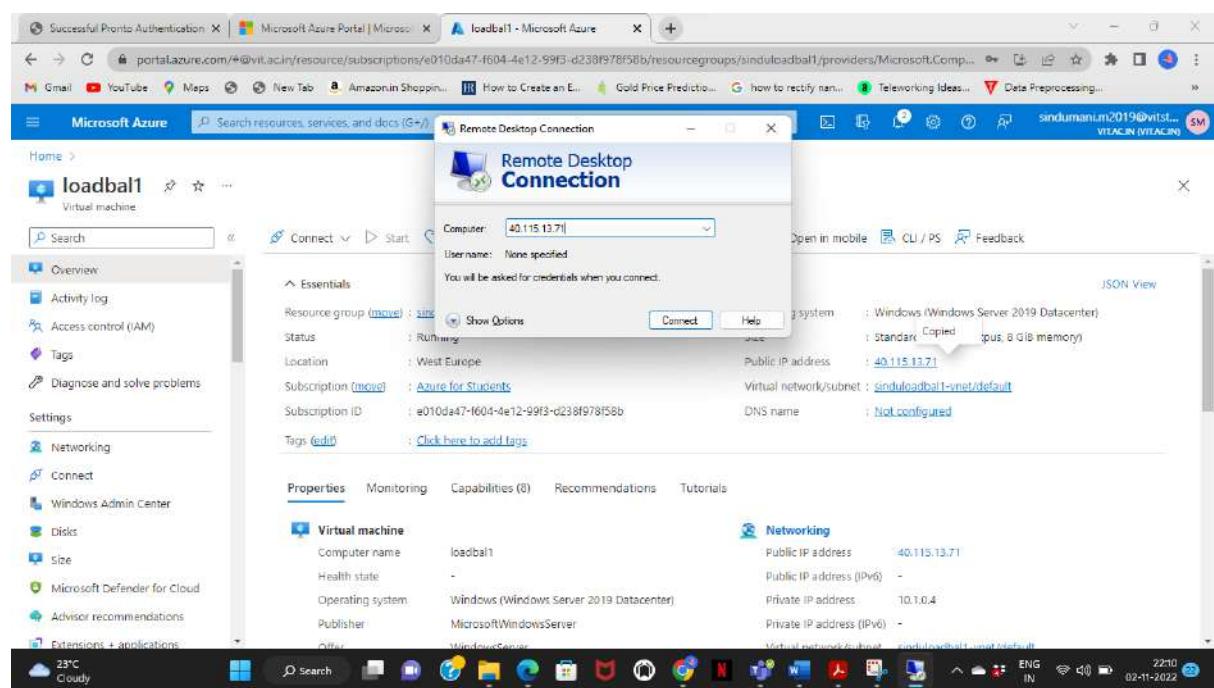
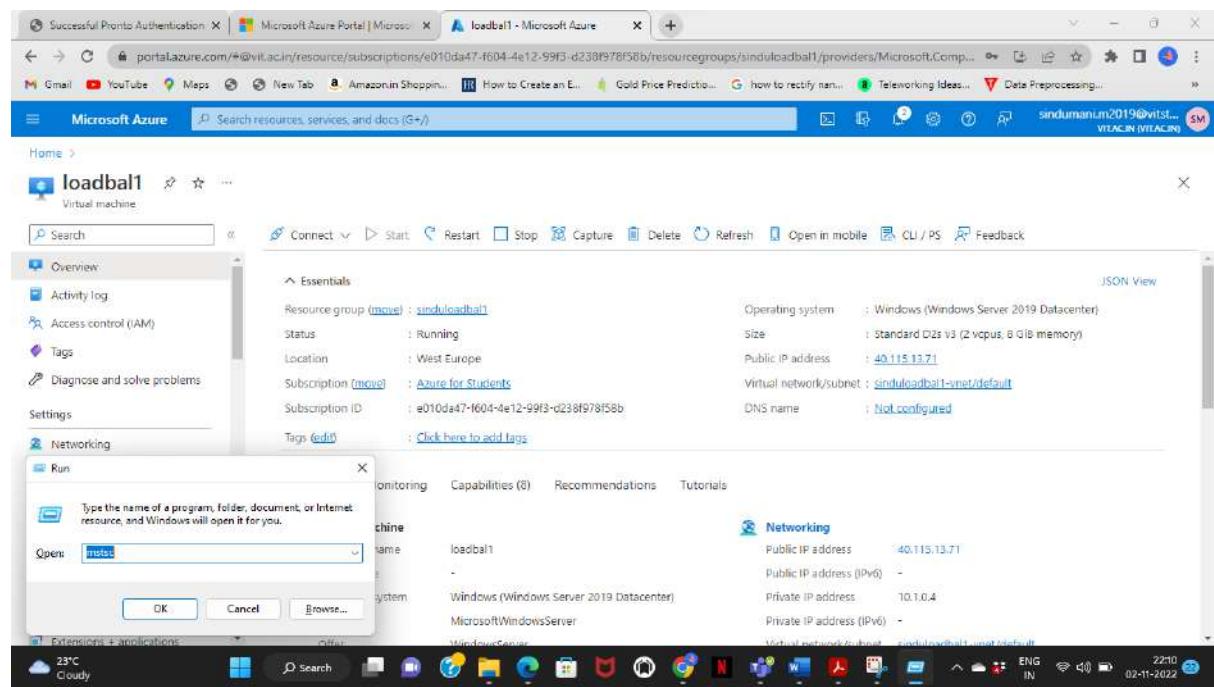
STEP 29:OPENING THE FILE IN NOTEPAD AND EDITING THE BODY

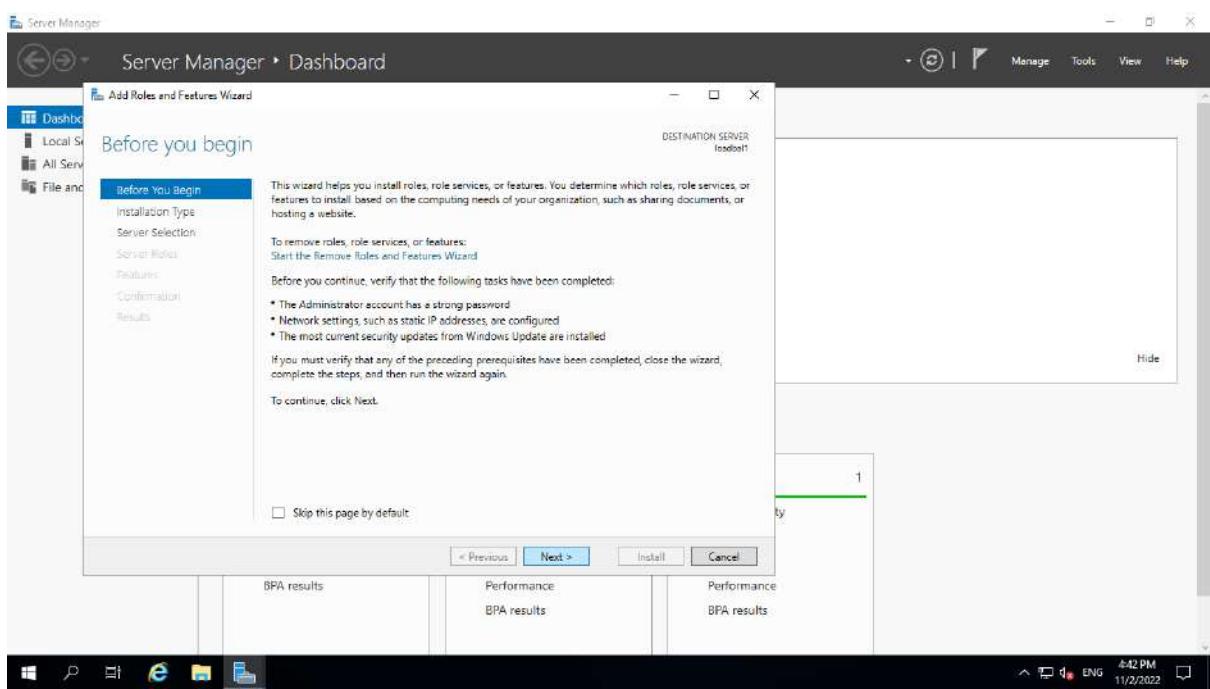
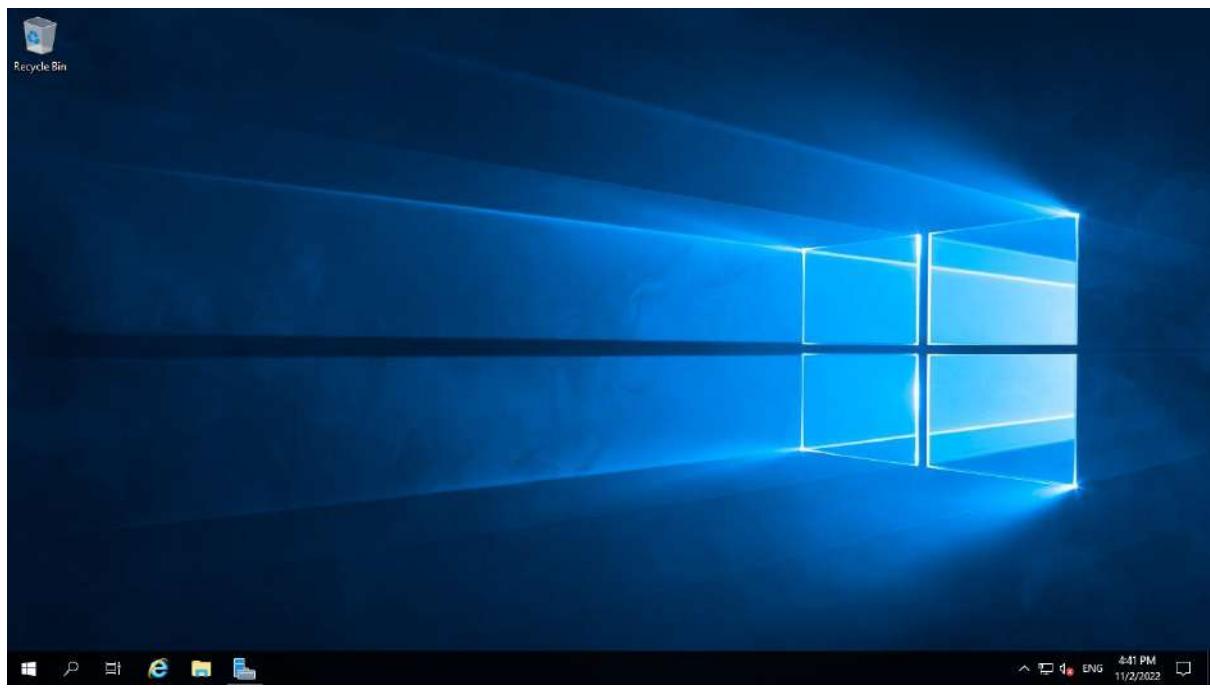


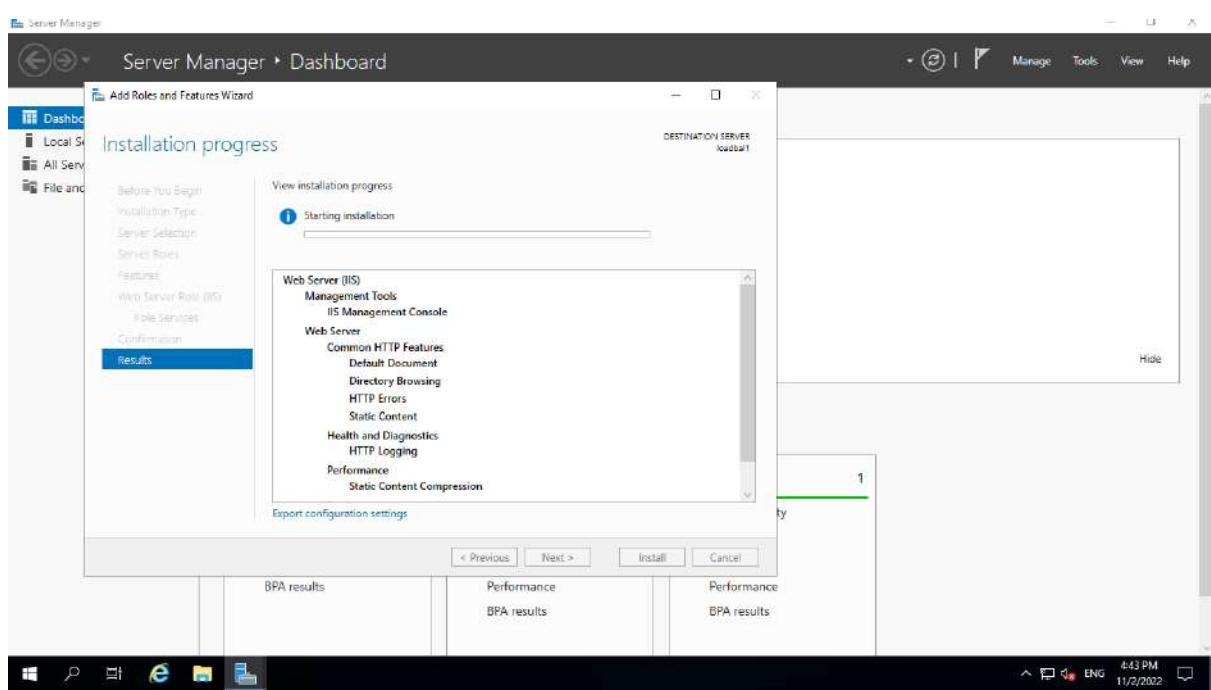
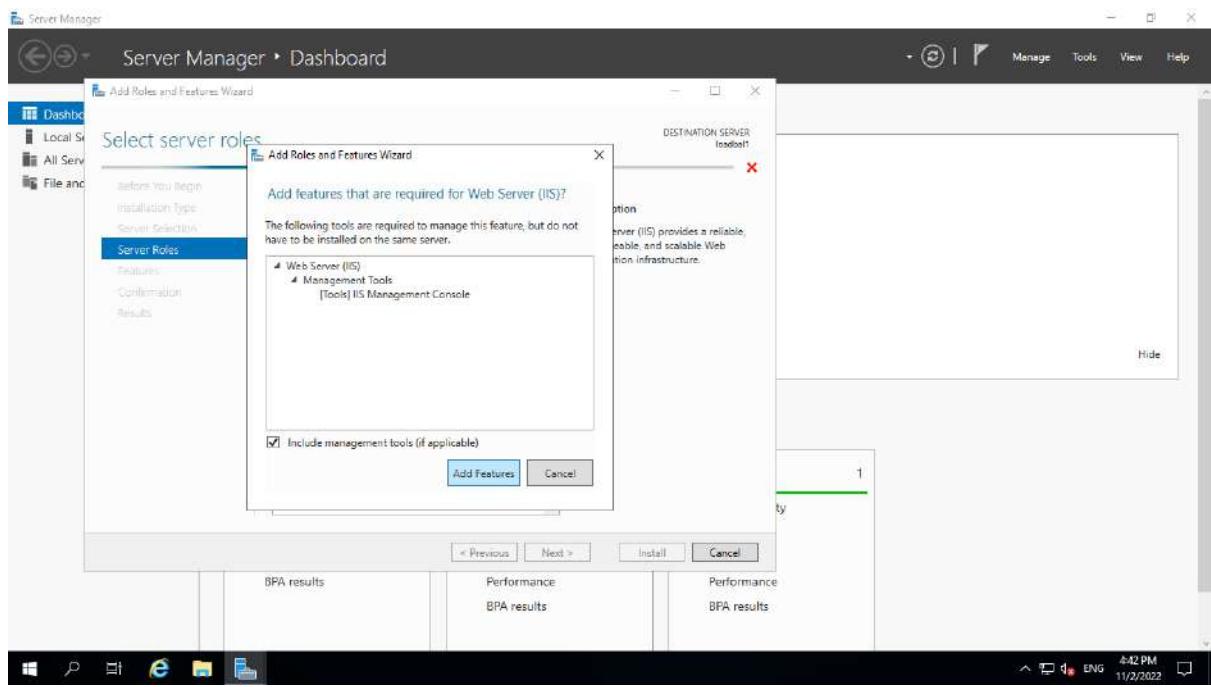
STEP 30:OPENING THE FILE IN INTERNET EXPLORER

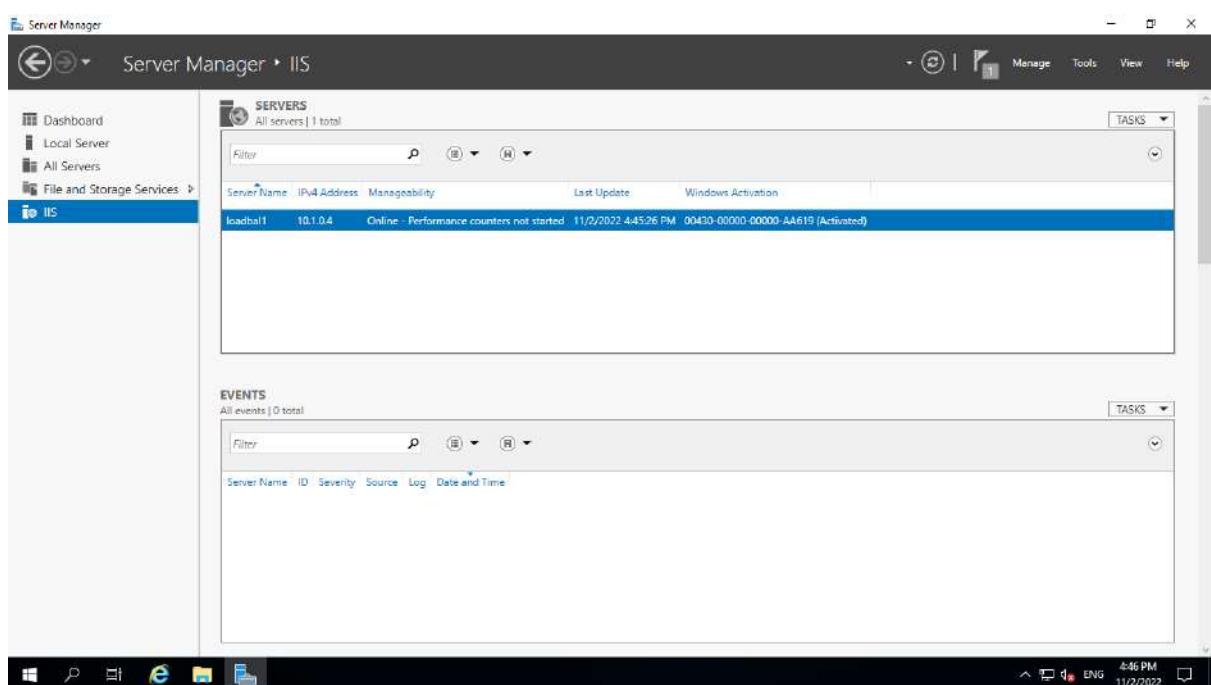
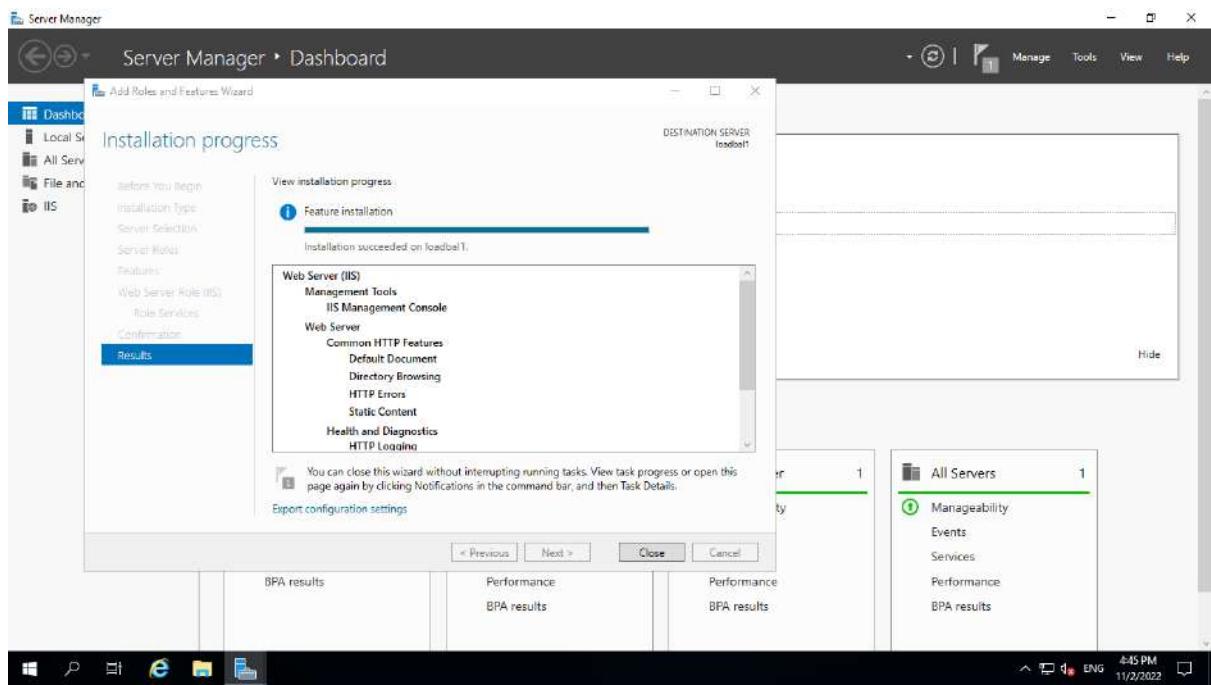


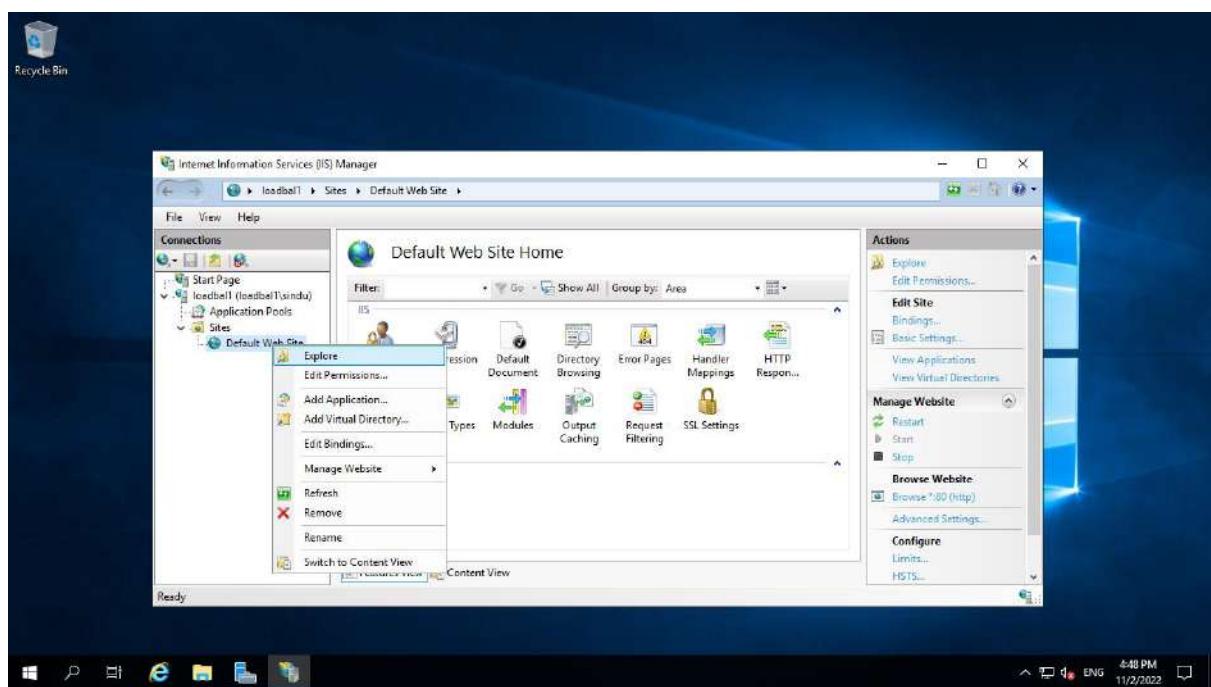
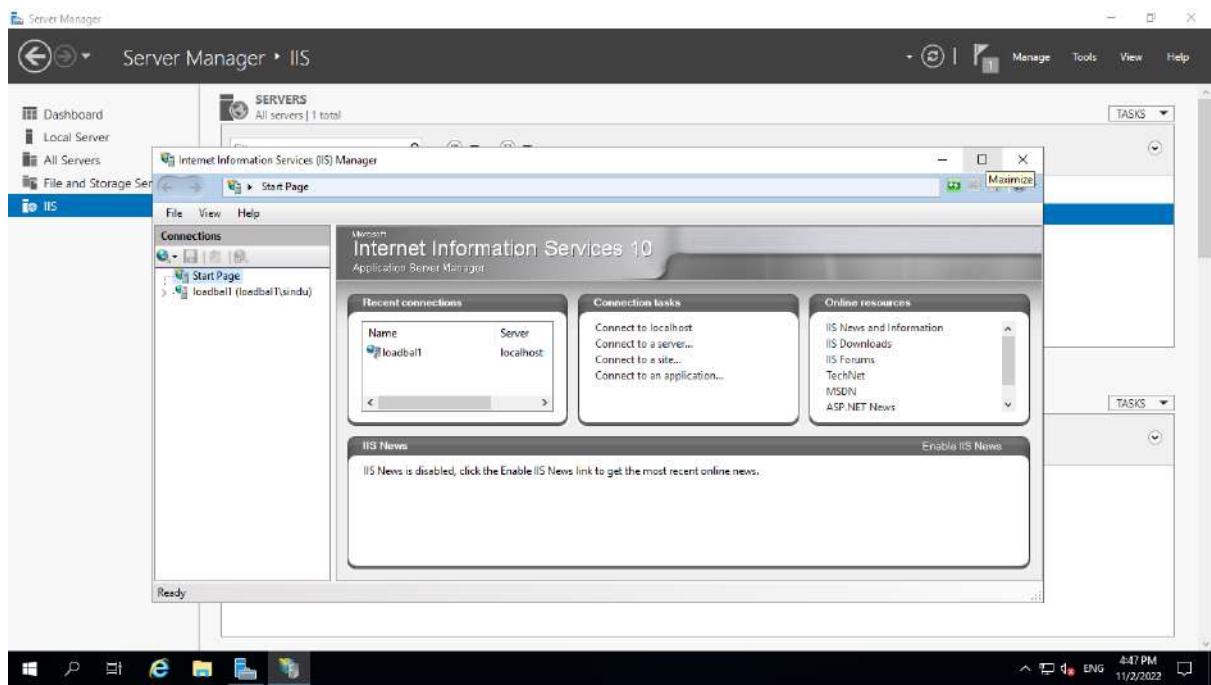
STEP 31:REPEATING THE SAME STEPS FOR VIRTUAL MACHINE2

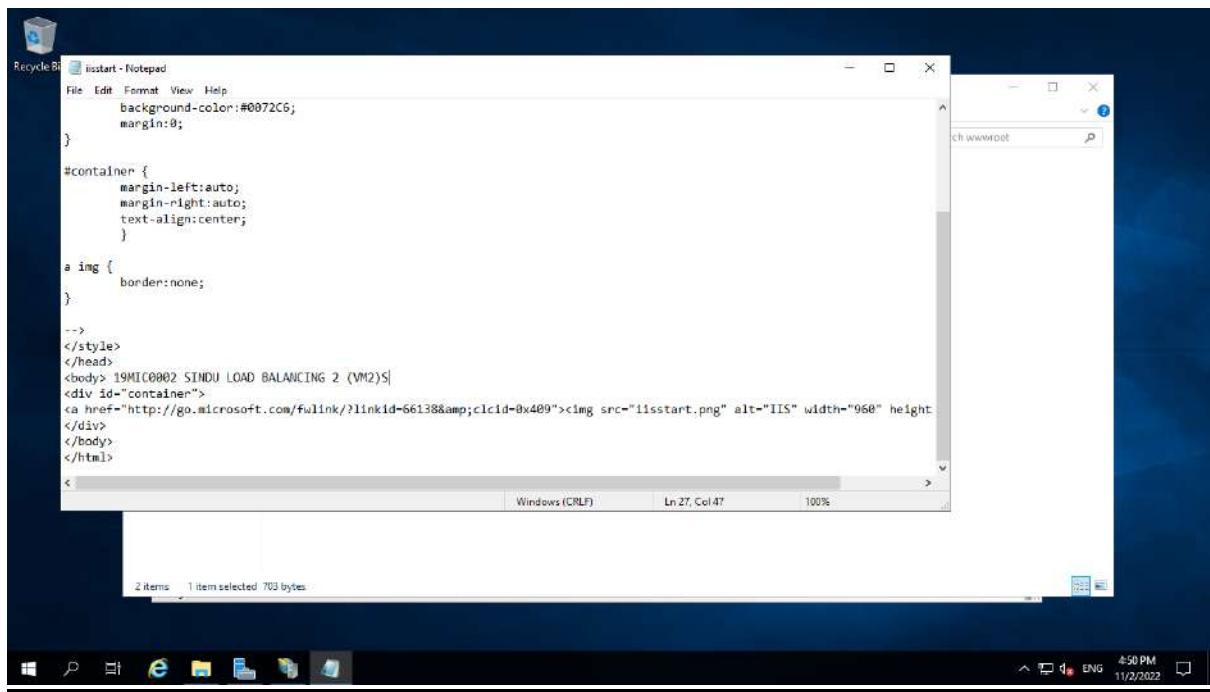
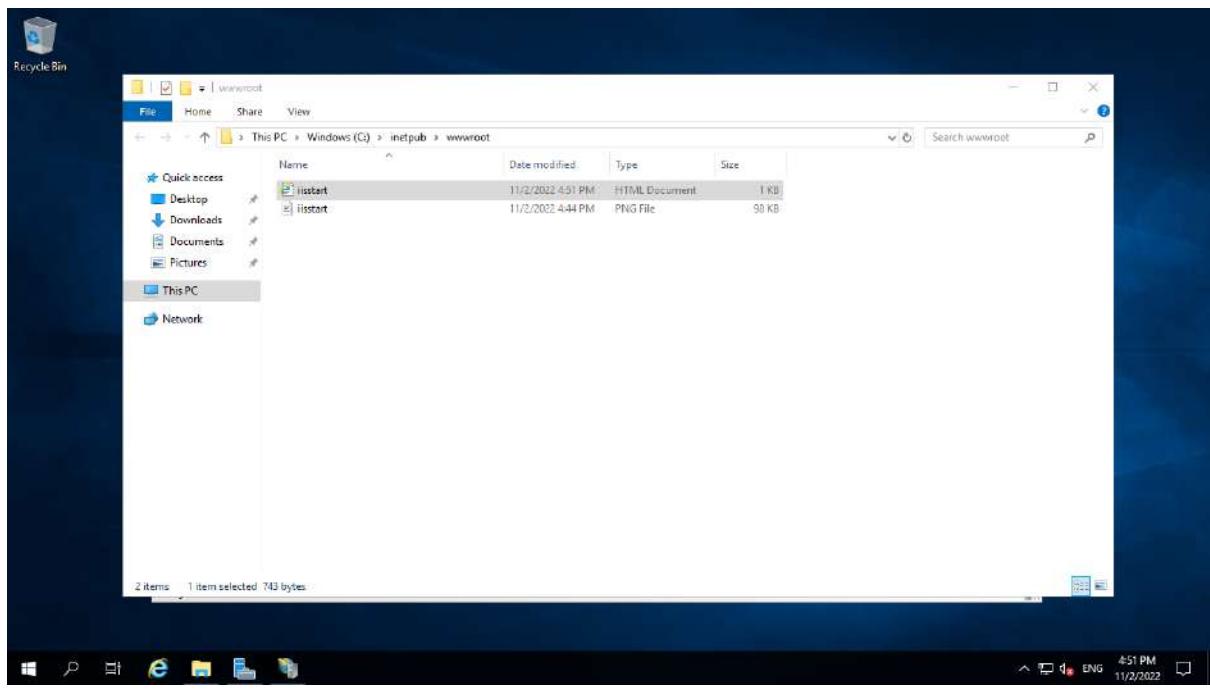


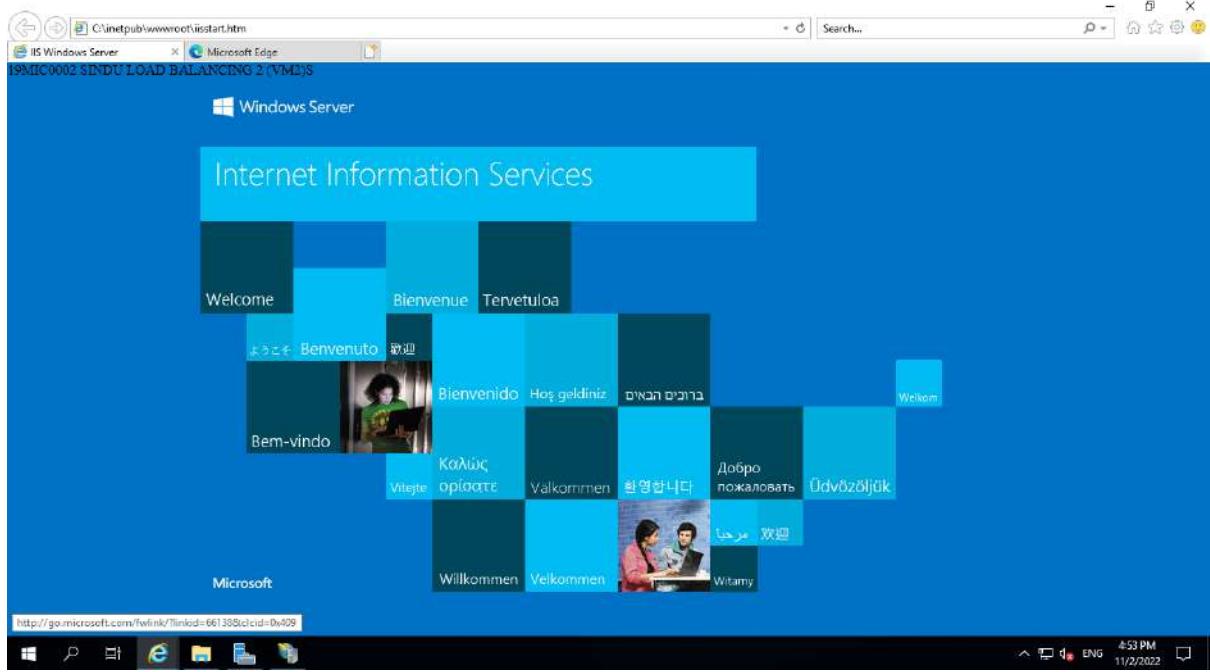




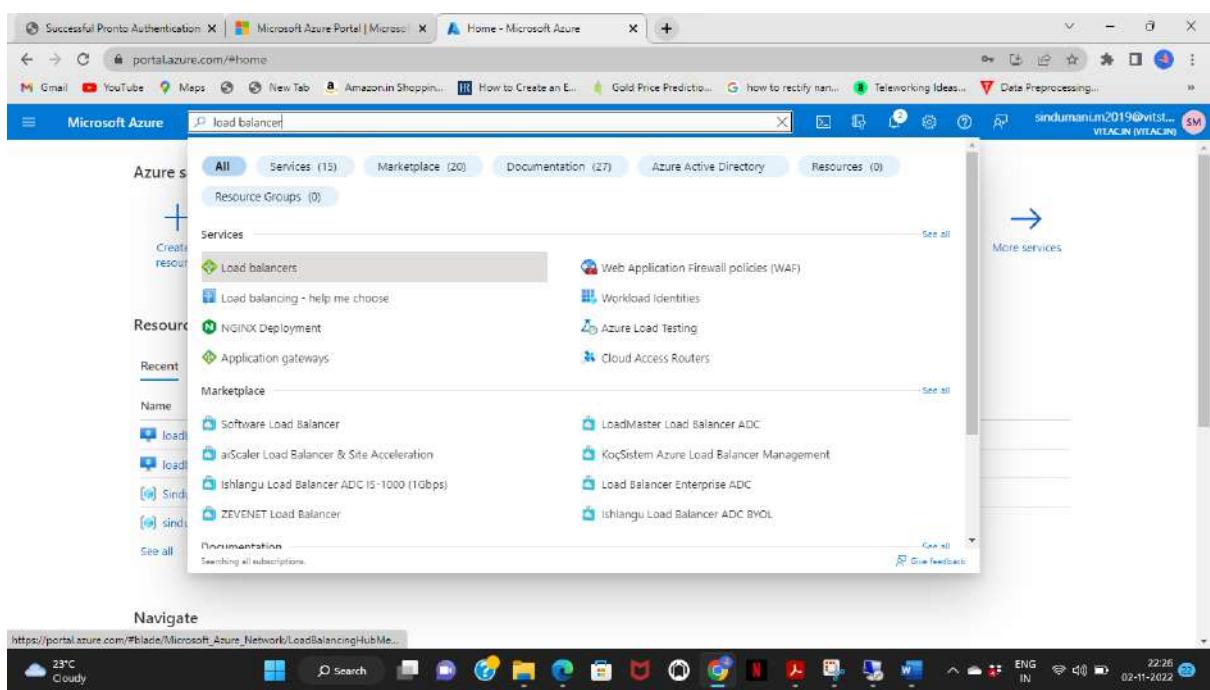








STEP 32:SEARCHING FOR LOAD BALANCER

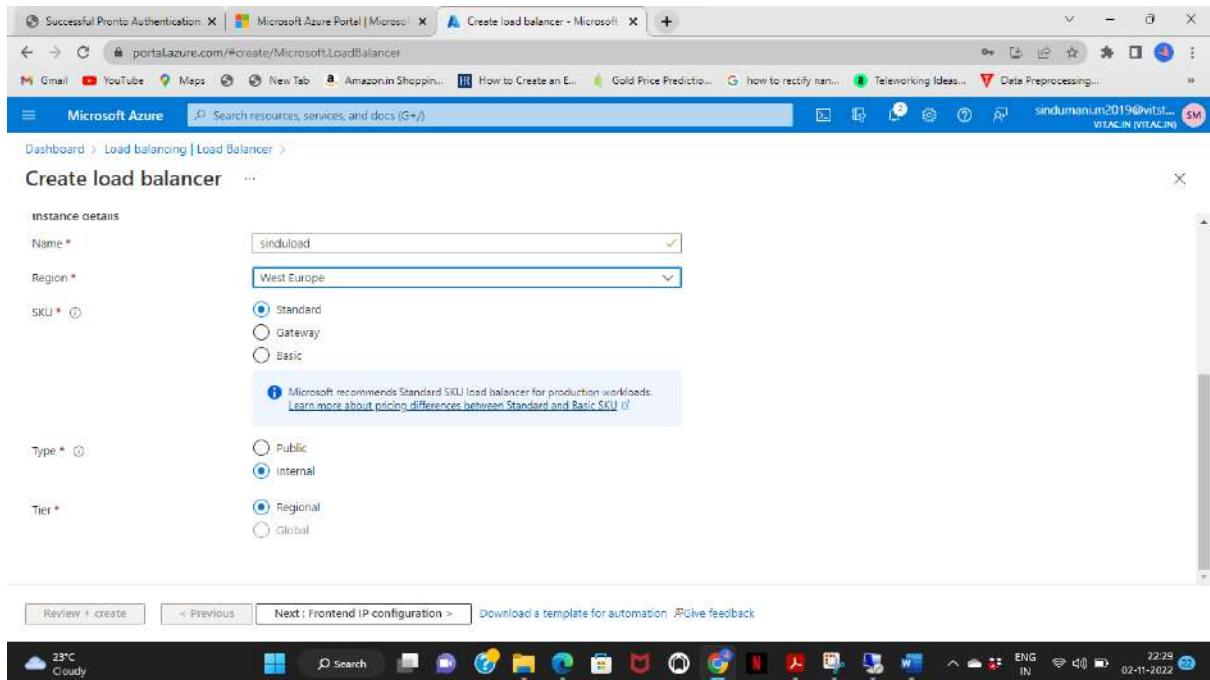


STEP 33:CREATING LOAD BALANCER

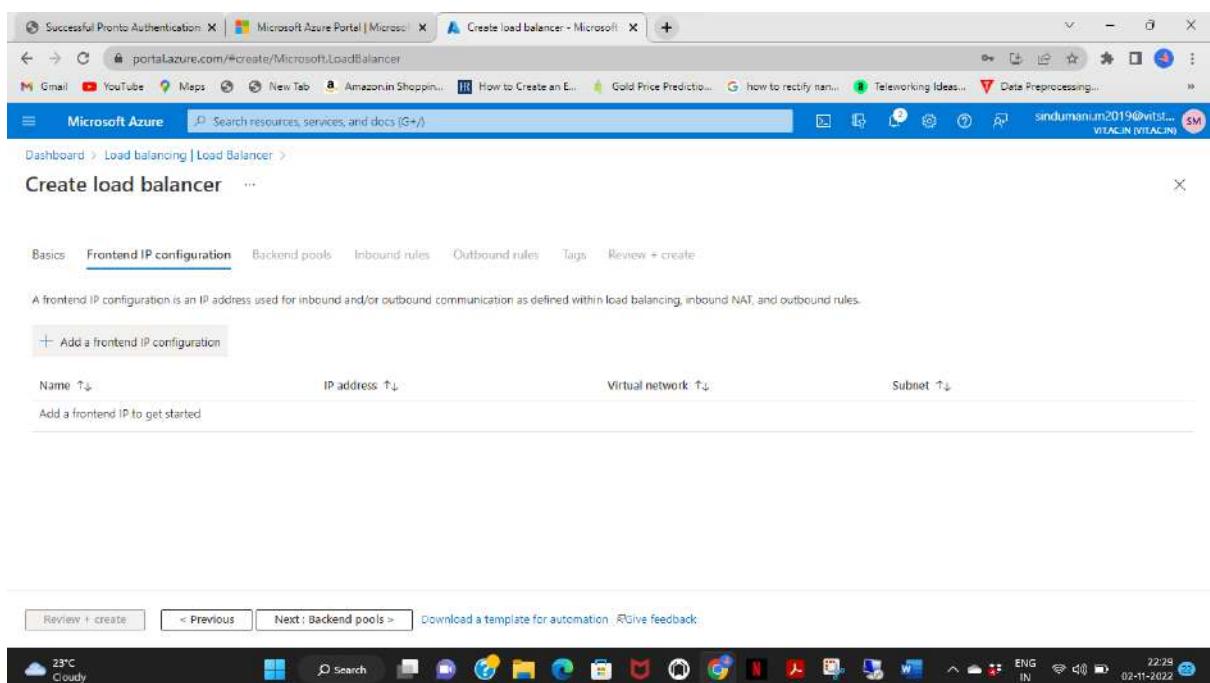
The screenshot shows the Microsoft Azure Portal interface. The top navigation bar includes links for Successful Pronto Authentication, Microsoft Azure Portal, and Load balancing - Microsoft Azure. Below the navigation bar, the main content area has a search bar and a toolbar with options like '+ Create', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', and 'Assign tags'. The left sidebar lists 'Load Balancing Services' with options: Application Gateway, Front Door and CDN profiles, Load Balancer (which is selected and highlighted in grey), and Traffic Manager. The main pane displays a large diamond icon with arrows pointing outwards, representing a load balancer. Below the icon, the text 'No load balancers to display' is centered. At the bottom of the main pane, there is a 'Create load balancer' button. The status bar at the bottom of the screen shows the date and time as 02-11-2022, 22:27, and the location as IN.

STEP 34:FILLING THE DETAILS FOR LOAD BALANCER

The screenshot shows the 'Create load balancer' wizard in the Microsoft Azure Portal. The current step is 'Basics'. The top navigation bar and toolbar are identical to the previous screenshot. The main content area contains tabs for 'Frontend IP configuration', 'Backend pools', 'Inbound rules', 'Outbound rules', 'Tags', and 'Review + create'. Below these tabs, a descriptive text explains what an Azure load balancer is and how it distributes traffic. Under the 'Project details' section, 'Subscription' is set to 'Azure for Students' and 'Resource group' is set to '(New) sindu'. In the 'Instance details' section, 'Name' is set to 'sinduload' and 'Region' is set to 'West Europe'. At the bottom of the form, there are buttons for 'Review + create', '< Previous', 'Next : Frontend IP configuration >', 'Download a template for automation', and 'Give feedback'. The status bar at the bottom shows the date and time as 02-11-2022, 22:28, and the location as IN.



STEP 35: ADDING THE FRONT END CONFIGURATION



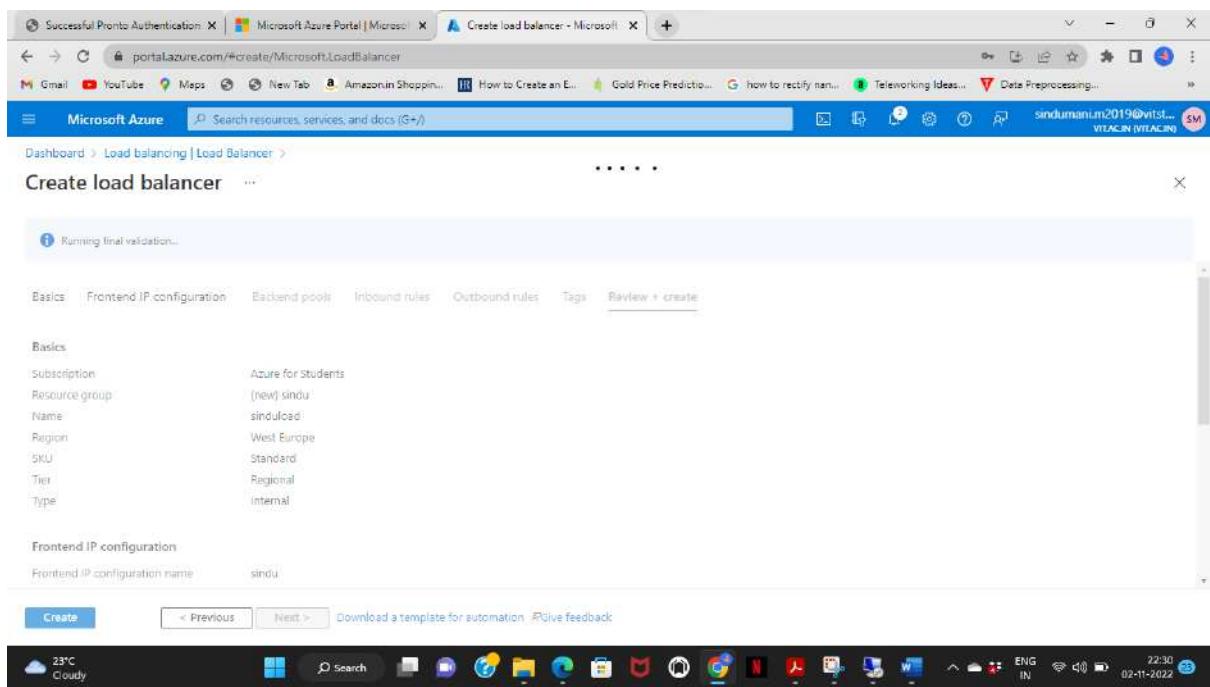
STEP 36: ADDING THE VIRTUAL NETWORK AND CHANGING THE SUBNET

The screenshot shows the Microsoft Azure Portal interface. The main window displays the 'Create load balancer' wizard, specifically the 'Frontend IP configuration' step. On the left, there's a navigation pane with 'Dashboard', 'Load balancing | Load Balancer', and 'Create load balancer'. The main content area has tabs for 'Basics', 'Frontend IP configuration' (which is selected), 'Backend pools', 'Inbound rules', 'Outbound rules', 'Tags', and 'Review + create'. Under 'Frontend IP configuration', there's a note about what it is and a link to 'Add a frontend IP configuration'. A table lists one entry: 'Name' (sindu), 'IP address' (Dynamic), 'Virtual network' (Sinduloadbal-vnet), and 'Subnet' (default). Below the table are buttons for 'Review + create', '< Previous / Next : Backend pools >', 'Download a template for automation', and 'Give feedback'. To the right, a modal window titled 'Add frontend IP configuration' is open, showing fields for 'Name' (sindu), 'Virtual network' (Sinduloadbal-vnet), 'Subnet' (default), 'Assignment' (Dynamic selected), and 'Availability zone' (No Zone). At the bottom of the modal is a blue 'Add' button.

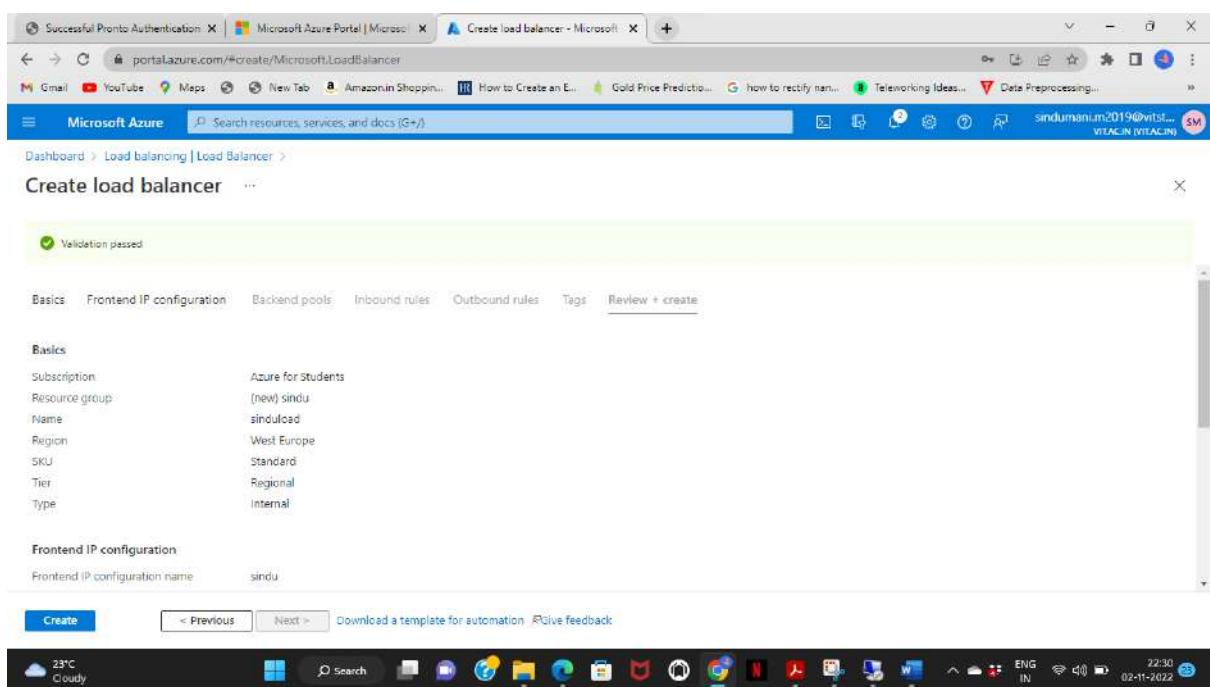
STEP 37: CLICKING REVIEW+CREATE FOR VALIDATIONS

This screenshot shows the 'Review + create' step of the 'Create load balancer' wizard. The interface is identical to the previous step, with the 'Frontend IP configuration' tab selected. The table now shows the configuration details: 'Name' (sindu), 'IP address' (Dynamic), 'Virtual network' (Sinduloadbal-vnet), and 'Subnet' (default). Below the table are buttons for 'Review + create', '< Previous / Next : Backend pools >', 'Download a template for automation', and 'Give feedback'. The status bar at the bottom indicates '23°C Cloudy', 'ENG IN', and the date '02-11-2022'.

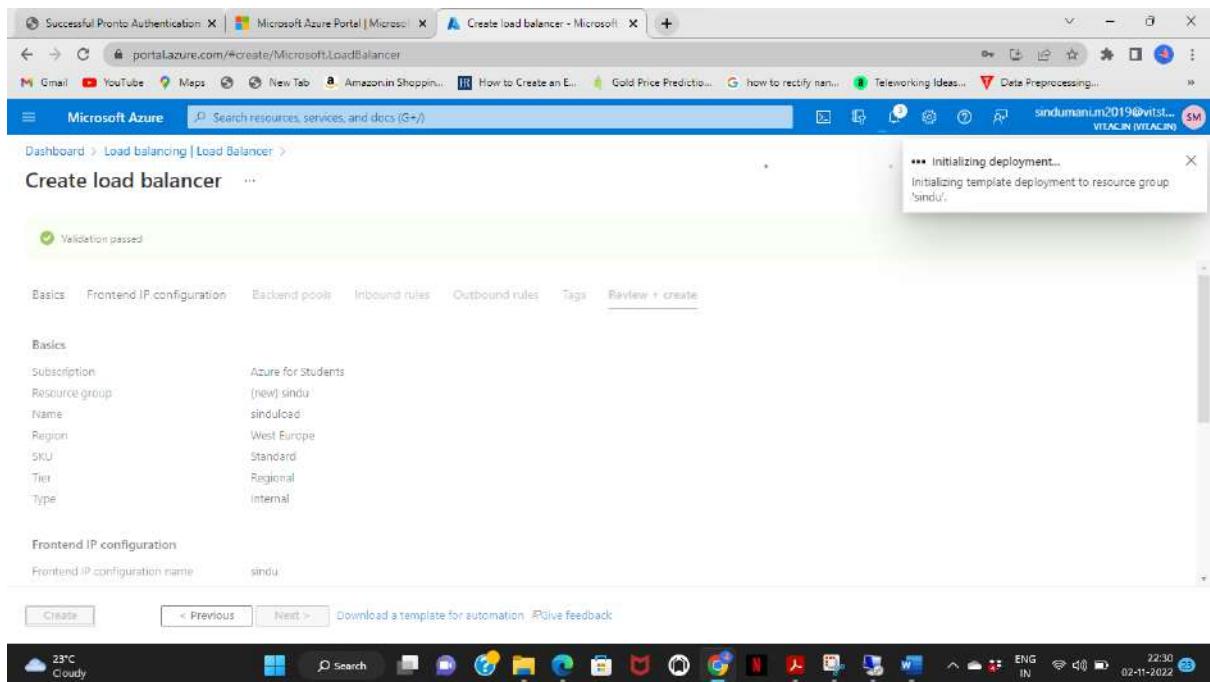
STEP 38:RUNNING FOR VALIDATION



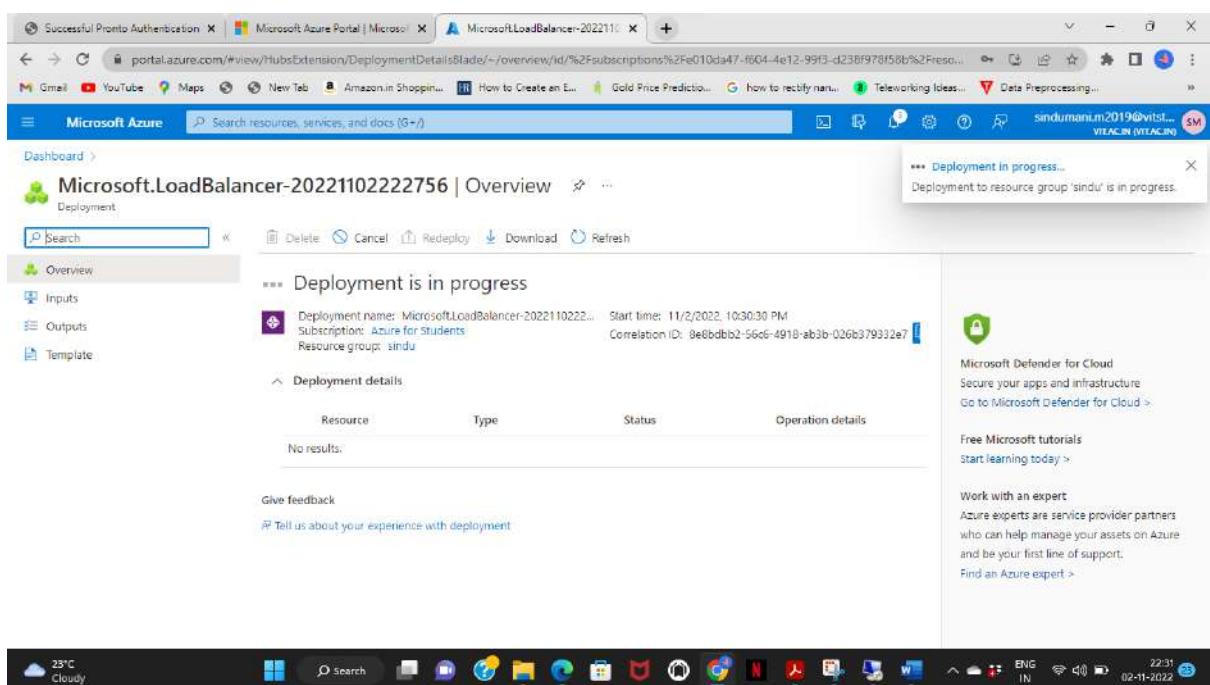
STEP 39:VALIDATION PASSED



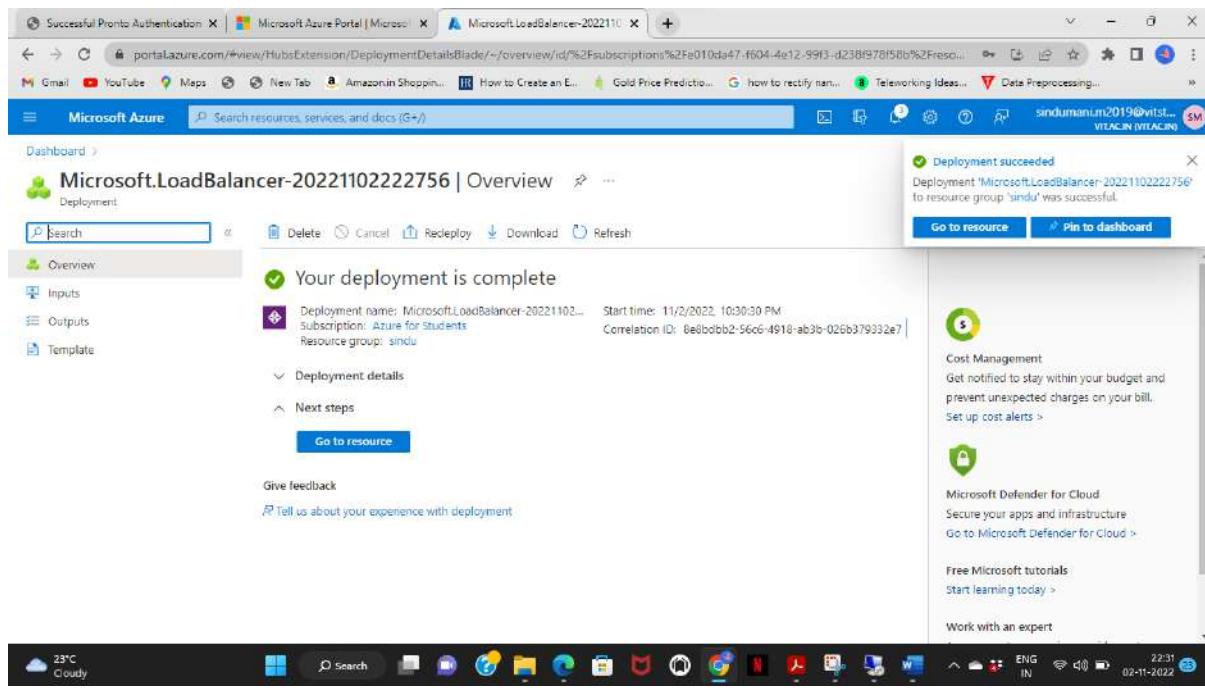
STEP 40:CLICKING CREATE FOR DEPLOYMENT



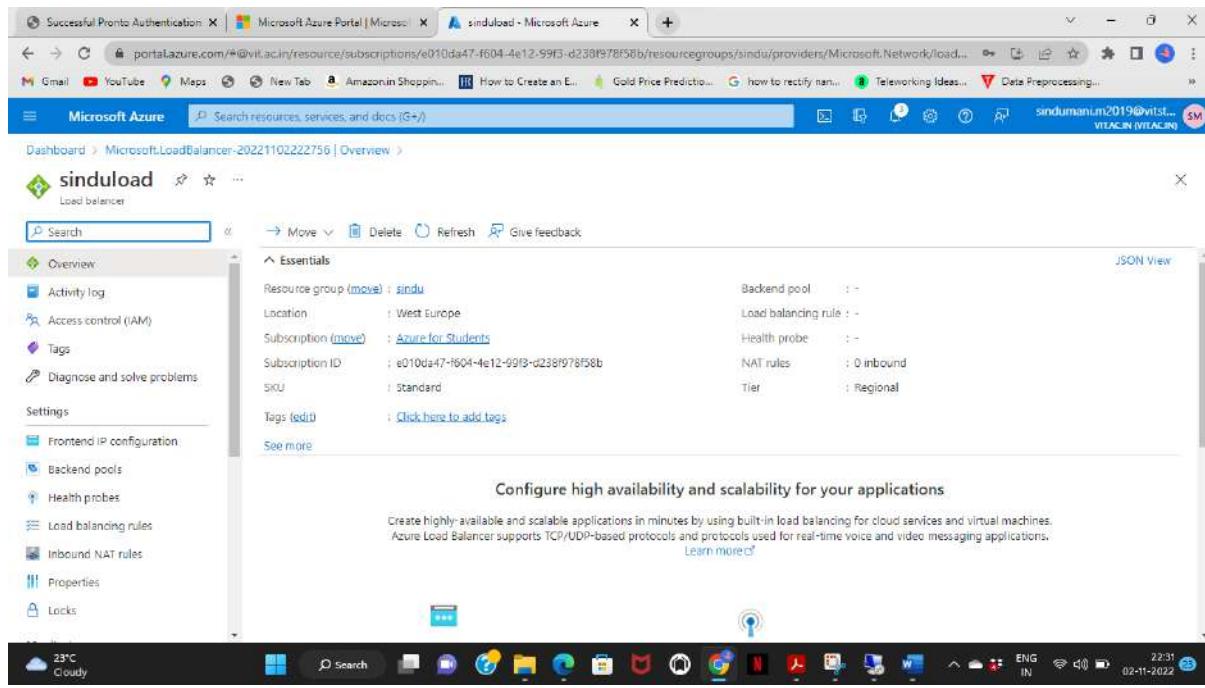
STEP 41:DEPLOYMENT IS PROGRESSED



STEP 42:DEPLOYMENT IS COMPLETED



STEP 43:SELECTING BACK END POOLS:



STEP 44:ADDING BACKEND POOL

The screenshot shows the Microsoft Azure Portal interface. The left sidebar is open, showing navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Frontend IP configuration, Backend pools, Health probes, Load balancing rules, Inbound NAT rules, Properties, and Locks. The 'Backend pools' option is selected. The main content area displays a table titled 'Backend pool' with columns: Backend pool, Resource Name, Resource Status, IP address, Network interface, Availability zone, and Rules count. A search bar and filter buttons are at the top of the table. The status bar at the bottom shows the date as 02-11-2022 and the time as 22:32.

STEP 45:ADDING VM1 AND VM2

The screenshot shows the Microsoft Azure Portal interface. The left sidebar is open, showing the same navigation options as the previous screenshot. The main content area is titled 'Add IP configurations to backend pool'. It includes a note about IP configurations associated with virtual machines and virtual machine scale sets. There are filters for 'Filter by name...', 'Location: westeurope', 'Virtual network: Sinduloadbal-vnet', and a 'Add filter' button. A checkbox 'Show resources that are not available for selection' is checked. Below is a table with columns: Resource Name, Resource group, Type, IP configuration, IP Address, Availability set, and Tags. One row is visible for a 'Virtual machine' named 'loadbal' under 'Sinduloadbal' with 'ipconfig1' as the IP configuration and '10.0.0.4' as the IP address. At the bottom are 'Add' and 'Cancel' buttons, and a 'Give feedback' link. The status bar at the bottom shows the date as 02-11-2022 and the time as 22:40.

STEP 46:ADDING AND SAVING

The screenshot shows the Microsoft Azure Portal interface. The user is in the 'Add backend pool' dialog for a load balancer named 'sinduload'. In the 'IP configurations' section, there is one entry: 'loadbal' (Resource group), 'Sinduloadbal' (Virtual machine), 'ipconfig1' (Type), and '10.0.0.4' (IP Address). A deployment progress message 'Deployment in progress' is visible in the top right corner.

The screenshot shows the Microsoft Azure Portal interface. The user is in the 'Add backend pool' dialog for a load balancer named 'sinduload'. In the 'IP configurations' section, there is one entry: 'loadbal' (Resource group), 'Sinduloadbal' (Virtual machine), 'ipconfig1' (Type), and '10.0.0.4' (IP Address). A deployment progress message 'Deployment in progress' is visible in the top right corner.

STEP 47:VIRTUAL MACHINES 1 AND 2 ARE ADDED TO THE BACKEND POOL

Backend pool	Resource Name	Resource Status	IP address	Network interface	Availability zone	Rules count
sindu (1)	loadbal	Running	10.0.0.4	loadbal31	-	0
sindu1 (1)	loadbal	Running	10.0.0.4	loadbal31	-	0

STEP 48:CHOOSING HEALTH PROBS

Name ↑	Protocol ↑	Port ↑	Used By ↑
No results.			

STEP 49:FILLING THE DETAILS FOR HEALTH PROBE

The screenshot shows the Microsoft Azure Portal with the URL https://portal.azure.com/#view/Microsoft_Azure_Network/LoadBalancerProbesBladeView/ModelV2/loadBalancerId/%2Fsubscriptions%2Fe010da47-f604-4e12-9.... The page title is "Add health probe - Microsoft Azure". The main content area shows a form for creating a new health probe:

- Name: sindu
- Protocol: TCP
- Port: 80
- Interval: 5 seconds
- Used by: Not used

A tooltip at the top left of the form area states: "Health probes are used to check the status of a backend pool instance. If the health probe fails to get a response from a backend instance then no new connections will be sent to that backend instance until the health probe succeeds again."

At the bottom of the page, there are "Add" and "Give feedback" buttons.

STEP 50:DEPLOYMENT IS INITIALIZED

The screenshot shows the Microsoft Azure Portal with the same URL as the previous step. The page title is "Add health probe - Microsoft Azure". A modal window is open on the right side with the following message:

*** Initializing deployment...
Initializing template deployment to resource group 'sindu'.

The rest of the page is identical to the previous screenshot, showing the health probe configuration form.

At the bottom of the page, there are "Validating..." and "Give feedback" buttons.

STEP 51:DEPLOYMENT IS PROGRESSED

The screenshot shows the Microsoft Azure Portal with the URL https://portal.azure.com/#view/Microsoft_Azure_Network/LoadBalancerProbesBladeView/ModelV2/loadBalancerId/%2Fsubscriptions%2Fe010da47-f604-4e12-9f13-d230f978f58b/resourceGroups/sindu/providers/Microsoft.Network/loadBalancers/sinduload/probes. The page title is "Add health probe - Microsoft Azure". A tooltip message "Deployment to resource group 'sindu' is in progress." is displayed in the top right corner. The main form fields are: Name (sindu), Protocol (TCP), Port (80), and Interval (5 seconds). Below the form, it says "Used by: Not used". At the bottom, there is a "Validating..." button.

STEP 52:DEPLOYMENT IS COMPLETED AND HEALTH PROBE IS ADDED

The screenshot shows the Microsoft Azure Portal with the URL https://portal.azure.com/#view/Microsoft_Azure_Network/LoadBalancerBladeView/ModelV2/loadBalancerId/%2Fsubscriptions%2Fe010da47-f604-4e12-9f13-d230f978f58b/resourceGroups/sindu/providers/Microsoft.Network/loadBalancers/sinduload. The page title is "sinduload | Health probes". The left sidebar shows navigation options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Frontend IP configuration, Backend pools, Health probes, Load balancing rules, Inbound NAT rules, Properties, Locks), and Help & feedback. The "Health probes" option is selected. The main content area displays a table of health probes:

Name	Protocol	Port	Used By
sindu	TCP	80	-

A deployment progress message "Deployment to resource group 'sindu' is in progress." is shown in the top right corner. The status bar at the bottom indicates "23°C Cloudy" and the date "02-11-2022".

STEP 53:ADDING THE LOAD BALANCING RULES

Dashboard > Microsoft.LoadBalancer-20221102222756 | Overview > sinduload

sinduload | Load balancing rules

Load balancer

Search

+ Add Refresh Give feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

- Frontend IP configuration
- Backend pools
- Health probes
- Load balancing rules** (selected)
- Inbound NAT rules
- Properties
- Locks

Filter by name...

Name	Load balancing rule	Backend pool	Health probe
Add a rule to get started			

Successful Points Authentication | Microsoft Azure | Add load balancing rule - Microsoft Azure

Dashboard > Microsoft.LoadBalancer-20221102222756 | Overview > sinduload | Load balancing rules >

Add load balancing rule

sinduload

A load balancing rule distributes incoming traffic that is sent to a selected IP address and port combination across a group of backend pool instances. Only backend instances that the health probe considers healthy receive new traffic.

Name * sindul

IP Version * IPv4

Frontend IP address * sindu (10.0.0.5)

Backend pool * sindu

Protocol * TCP

Add Give feedback

Add load balancing rule

Port * 80

Backend port * 80

Health probe * sindu (TCP:80)

Session persistence * None

Idle timeout (minutes) * 4

TCP reset Disabled

Floating IP Disabled

Add **Give feedback**

STEP 54:DEPLOYMENT IS INITIALIZED

Add load balancing rule

Port * 80

Backend port * 80

Health probe * sindu (TCP:80)

Session persistence * None

Idle timeout (minutes) * 4

TCP reset Disabled

Floating IP Disabled

Validating... **Give feedback**

*** initializing deployment...
Initializing template deployment to resource group
'sindu'.

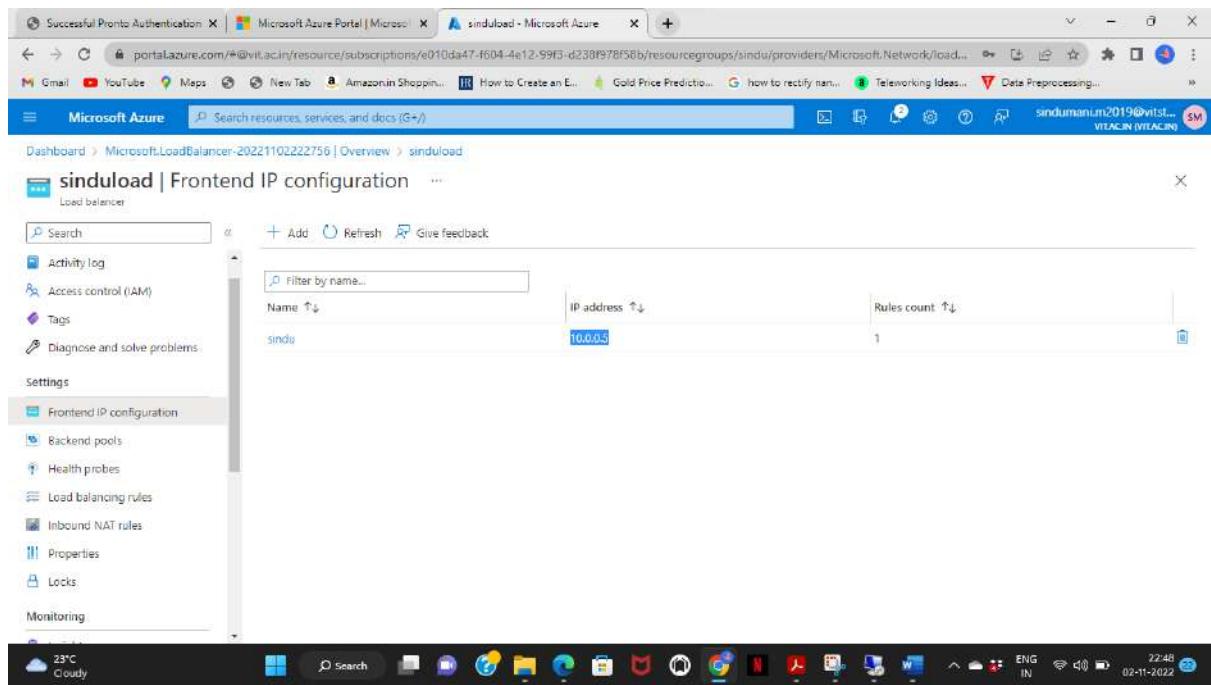
STEP 55:DEPLOYMENT IS PROGRESSED

The screenshot shows the 'Add load balancing rule' configuration page in the Microsoft Azure Portal. The rule is for port 80 to backend port 80, using protocol UDP. A deployment progress message indicates 'Deployment to resource group 'sindu' is in progress.'

STEP 56:DEPLOYMENT IS COMPLETED

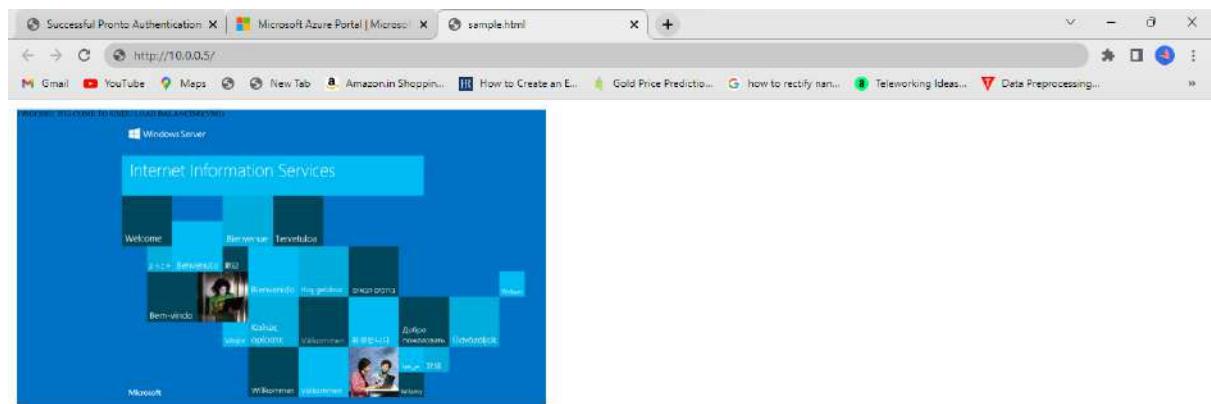
The screenshot shows the 'sinduload | Load balancing rules' overview page in the Microsoft Azure Portal. It displays a single load balancing rule named 'sindu' with details: Name: sindu, Load balancing rule: sindu (TCP/80), Backend pool: sindu, Health probe: sindu. A deployment success message is shown: 'Deployment succeeded Deployment 'LoadBalancingRule-20221102224700' to resource group 'sindu' was successful.'

STEP 57:COPYING THE IP ADDRESS IN FRONTEND IP CONFIGURATION



The screenshot shows the Microsoft Azure Portal interface. The main title bar says "Successful Pronto Authentication" and "Microsoft Azure Portal | Microsoft". A tab labeled "sinduload - Microsoft Azure" is active. Below the tabs, there's a search bar and a dashboard menu. The main content area is titled "sinduload | Frontend IP configuration". On the left, a sidebar has "Frontend IP configuration" selected under "Settings". The main table lists one entry: "Name" (sindu), "IP address" (10.0.0.5), and "Rules count" (1). At the bottom of the screen, the taskbar shows various pinned icons and the system tray.

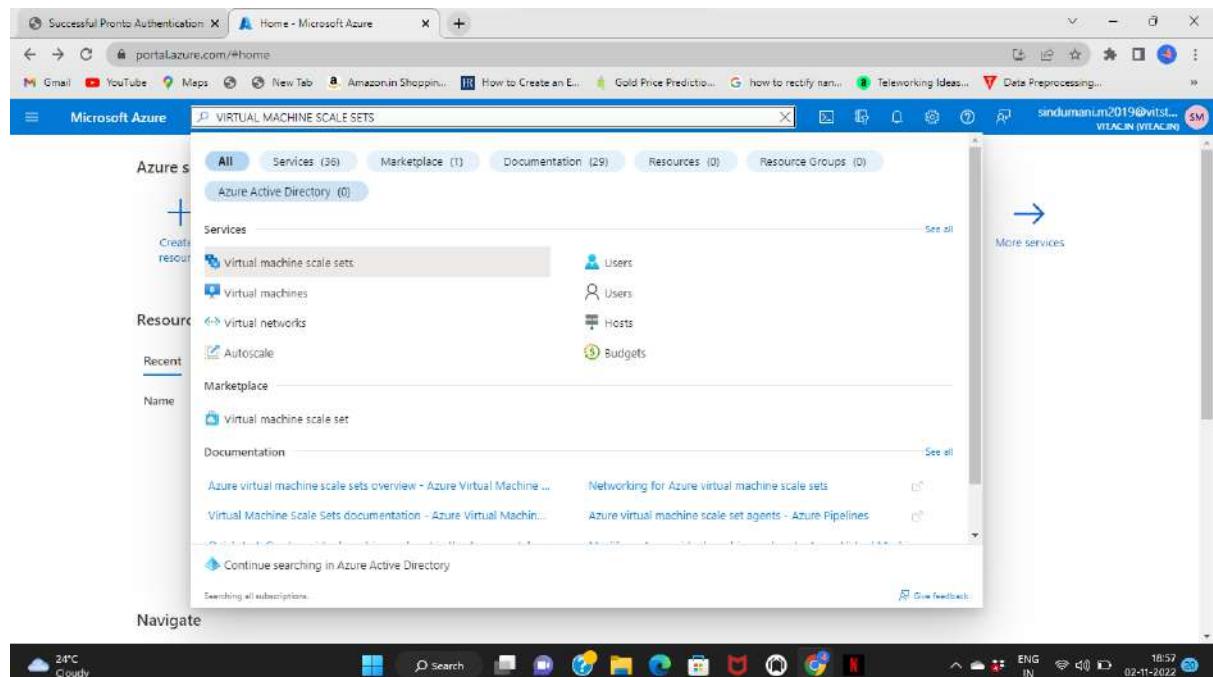
STEP 58:FETCHING IT IN THE BROWSER



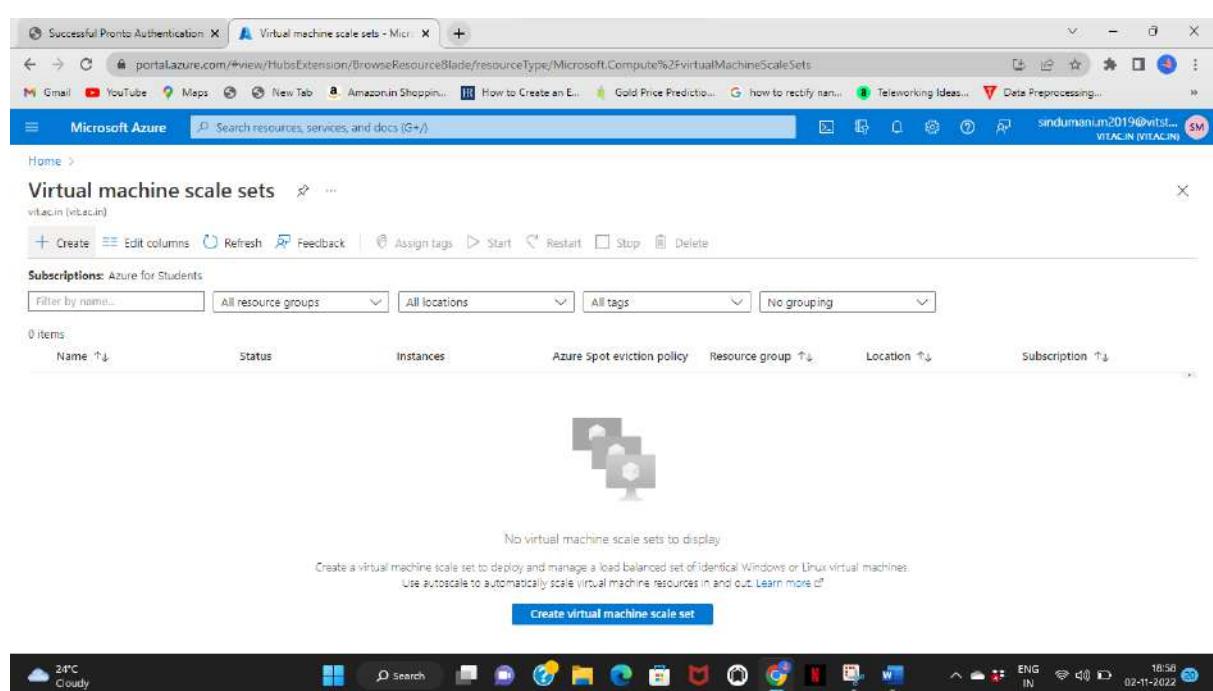
The screenshot shows a web browser window with the URL "http://10.0.0.5/" in the address bar. The page content is a Microsoft Windows Server landing page, featuring a blue background with various international greetings like "Welcome", "Bem-vindo", "Hello", "Tervetuloa", etc., arranged in a grid. The browser toolbar at the top includes icons for back, forward, search, and other common functions. The system tray at the bottom shows the date and time as "02-11-2022 22:48".

2.AUTO SCALING IN AZURE

STEP 1:TO CREATE AN VIRTUAL MACHINE SCALE SET,SEARCHING FOR VIRTUAL MACHINE SCALE SETS



STEP 2:CLICKING ON CREATE TO FILL THE DETAILS



STEP 3:FILLING THE DETAILS

The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#create/microsoft.vmss>. The page title is "Create a virtual machine scale set". The "Basics" tab is selected. A warning message at the top says: "Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine." Below it, a brief description of Azure virtual machine scale sets is provided. The "Project details" section asks to select a subscription and resource group. The subscription dropdown shows "Azure for Students" and the resource group dropdown shows "(New) myVMSSRG". The status bar at the bottom of the browser window shows the weather as "24°C Cloudy" and the date as "02-11-2022".

The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#create/microsoft.vmss>. The page title is "Create a virtual machine scale set". The "Scale set details" section is active. It requires a "Virtual machine scale set name" (set to "myVMSS"), a "Region" (set to "(US) East US"), and an "Availability zone" (set to "None"). The "Orchestration" section describes the scale set model and offers two options: "Uniform" (selected) and "Flexible". The status bar at the bottom of the browser window shows the weather as "24°C Cloudy" and the date as "02-11-2022".

Create a virtual machine scale set

Instance details

Security type: Standard

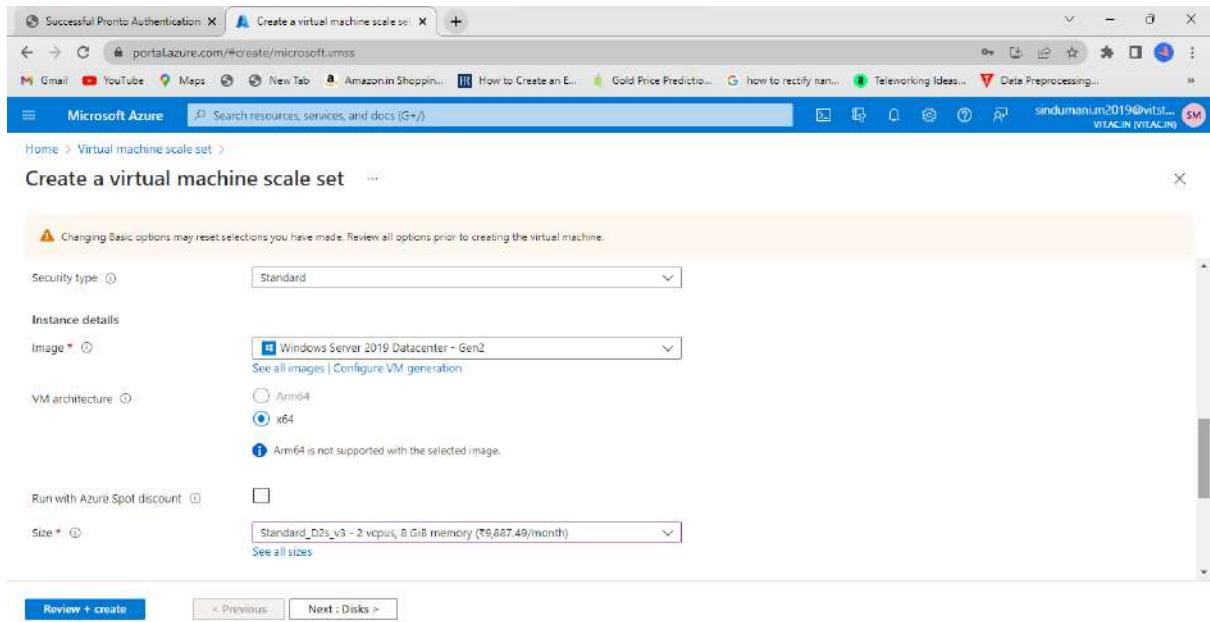
Image: Windows Server 2019 Datacenter - Gen2

VM architecture: x64

Run with Azure Spot discount:

Size: Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹9,887.49/month)

Review + create < Previous Next : Disks >



Create a virtual machine scale set

Administrator account

Username: sindu

Password:

Confirm password:

Licensing

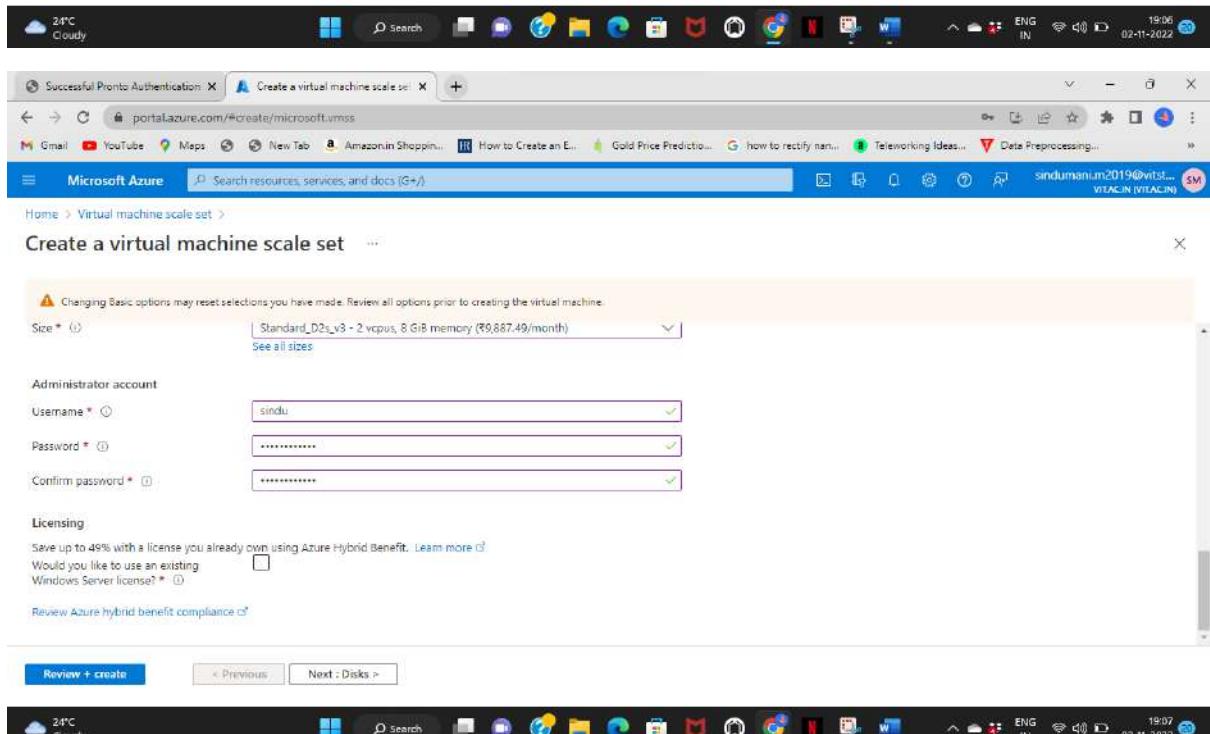
Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

Would you like to use an existing

Windows Server license?

Review Azure hybrid benefit compliance

Review + create < Previous Next : Disks >



Successful Pronto Authentication X A Create a virtual machine scale set X +

portal.azure.com/#create/microsoft.vmss

Gmail YouTube Maps New Tab Amazon.in Shopping... How to Create an E... Gold Price Predictio... G how to rectify ran... Teleworking Ideas... Data Preprocessing... sindumani.m2019@vitst... VITALIN (VITALIN) SM

Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual machine scale set >

Create a virtual machine scale set

Basics Disks Networking Scaling Management Health Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more about VMSS networking](#)

Virtual network configuration

Azure Virtual Network (VNet) enables many types of Azure resources to securely communicate with each other, the internet, and on-premises networks. [Learn more about VNets](#)

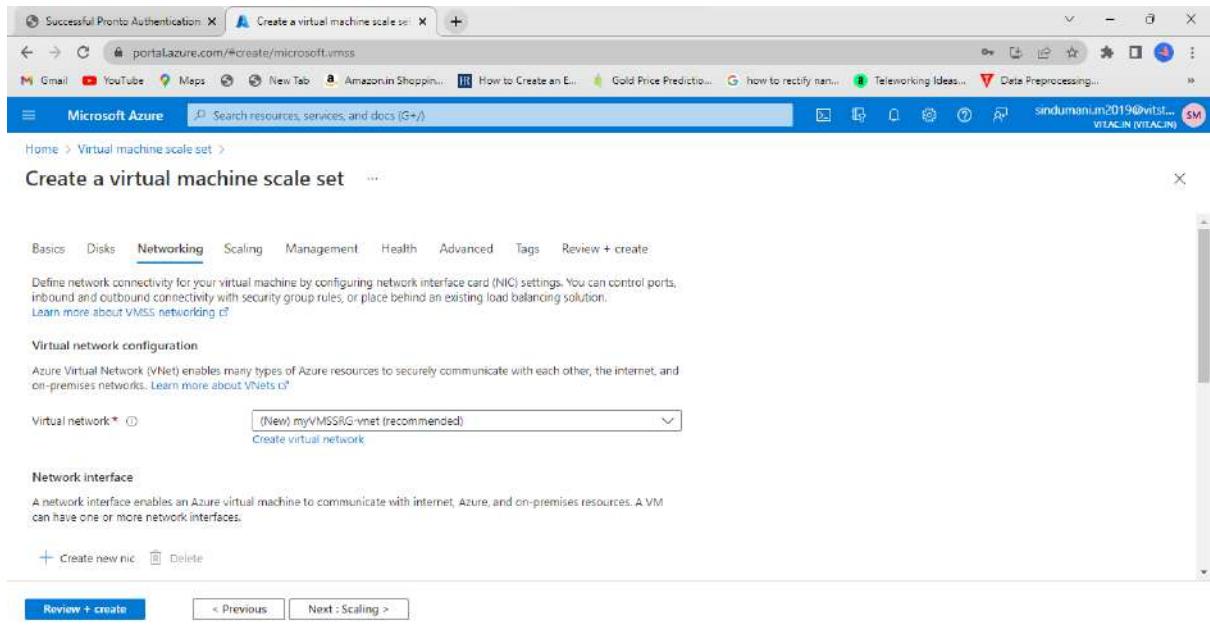
Virtual network* (New) myVMSSRG-vnet (recommended) Create virtual network

Network interface

A network interface enables an Azure virtual machine to communicate with internet, Azure, and on-premises resources. A VM can have one or more network interfaces.

+ Create new nic Delete

Review + create < Previous Next : Scaling >



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Create a virtual machine scale set

+ Create new nic Delete

NAME	CREATE PUBLIC	SUBNET	NETWORK SECURITY	ACCELERATED NIC
myVMSSRG-vnet-nic01	Yes	default (10.0.0.0/16)	Basic	On

Load balancing

You can place this virtual machine scale set in the backend pool of an existing Azure load balancing solution. [Learn more](#)

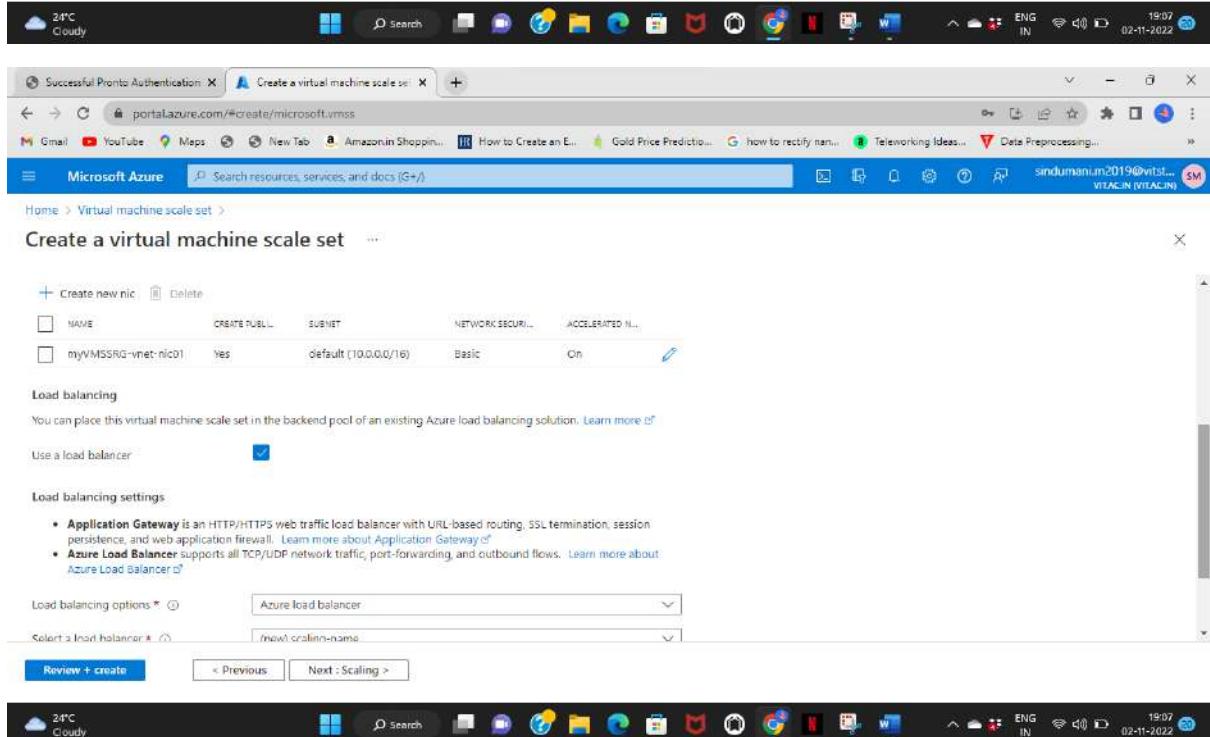
Use a load balancer

Load balancing settings

- Application Gateway is an HTTP/HTTPS web traffic load balancer with URL-based routing, SSL termination, session persistence, and web application firewall. [Learn more about Application Gateway](#)
- Azure Load Balancer supports all TCP/UDP network traffic, port-forwarding, and outbound flows. [Learn more about Azure Load Balancer](#)

Load balancing options* (Azure load balancer) Select a load balancer* (new) scaling-name

Review + create < Previous Next : Scaling >



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portal.azure.com/#create/microsoft.vmss

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Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual machine scale set >

Create a virtual machine scale set

Load balancing

You can place this virtual machine scale set in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Use a load balancer

Load balancing settings

- Application Gateway is an HTTP/HTTPS web traffic load balancer with URL-based routing, SSL termination, session persistence, and web application firewall. [Learn more about Application Gateway](#)
- Azure Load Balancer supports all TCP/UDP network traffic, port-forwarding, and outbound flows. [Learn more about Azure Load Balancer](#)

Load balancing options *

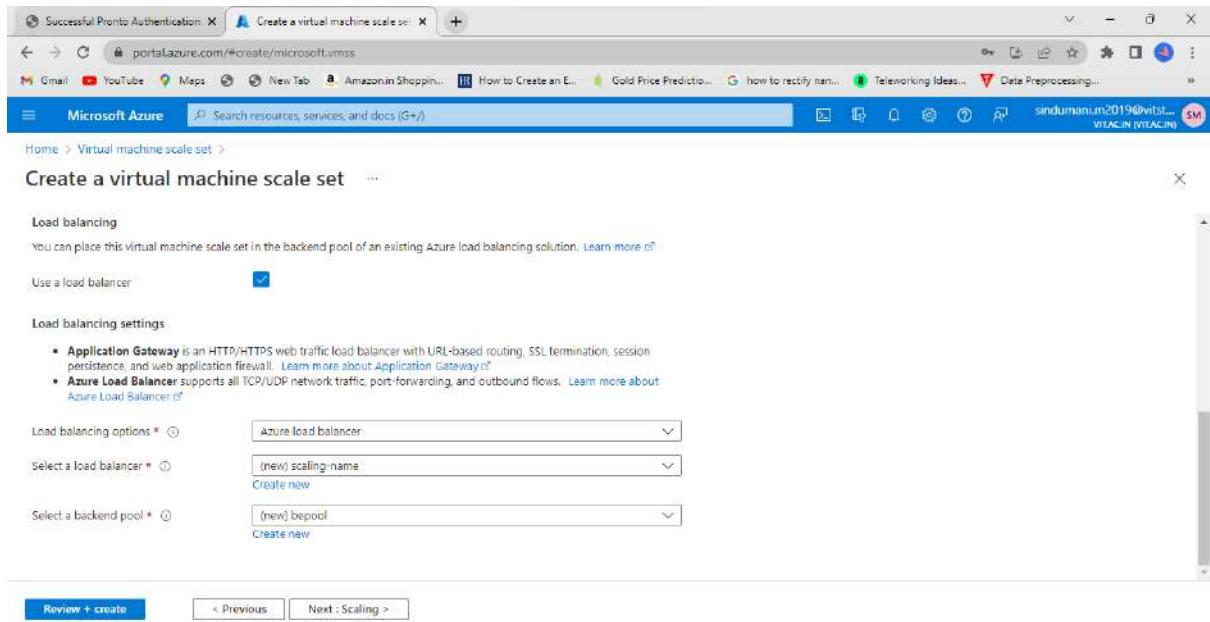
Select a load balancer *

Create new

Select a backend pool *

Create new

[Review + create](#) < Previous Next : Scaling >



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portal.azure.com/#create/microsoft.vmss

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Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual machine scale set >

Create a virtual machine scale set

Scaling

Basics Disks Networking Scaling Management Health Advanced Tags Review + create

An Azure virtual machine scale set can automatically increase or decrease the number of VM instances that run your application. This automated and elastic behavior reduces the management overhead to monitor and optimize the performance of your application. [Learn more about VMSS scaling](#)

Initial instance count *

Scale with VMs and discounted Spot VMs (preview)

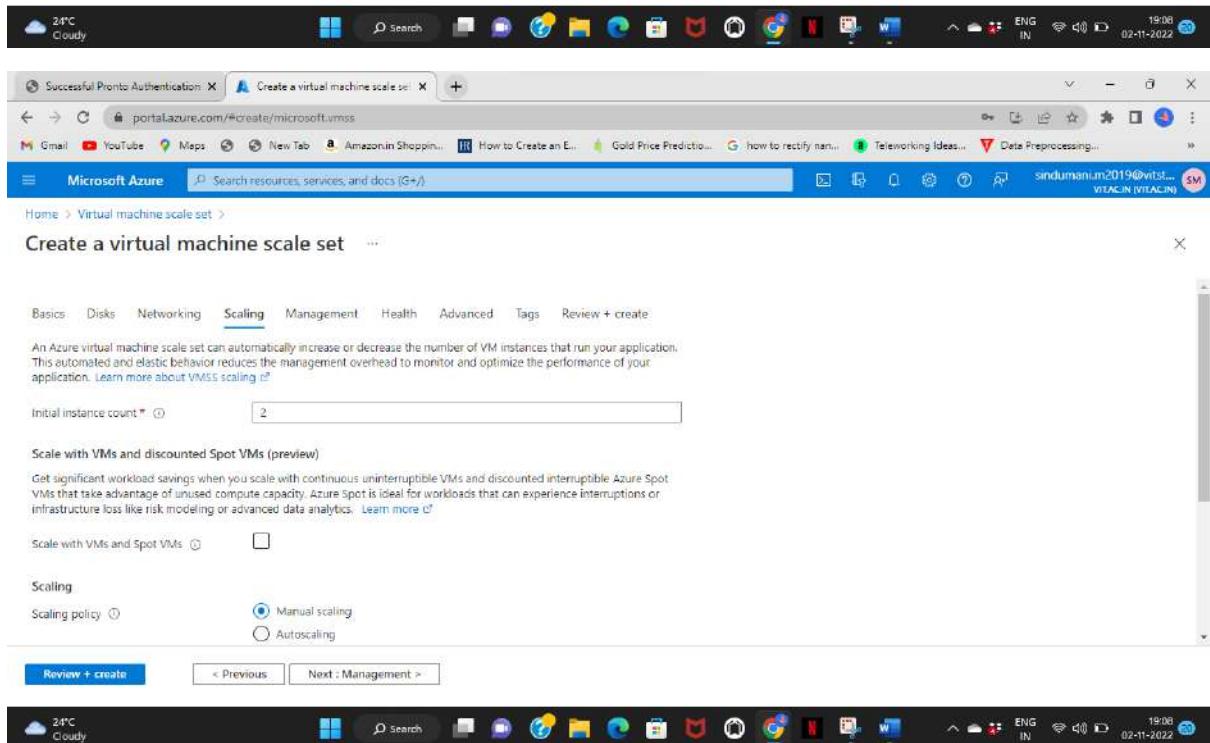
Get significant workload savings when you scale with continuous uninterruptible VMs and discounted interruptible Azure Spot VMs that take advantage of unused compute capacity. Azure Spot is ideal for workloads that can experience interruptions or infrastructure loss like risk modeling or advanced data analytics. [Learn more](#)

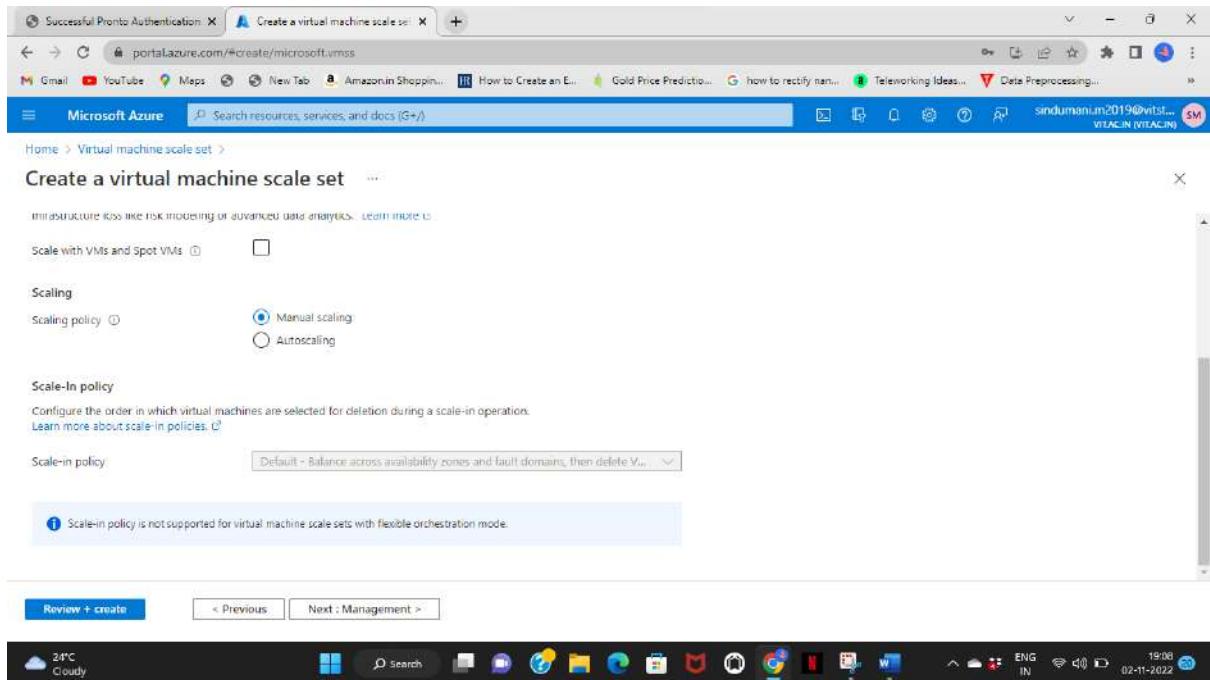
Scale with VMs and Spot VMs

Scaling

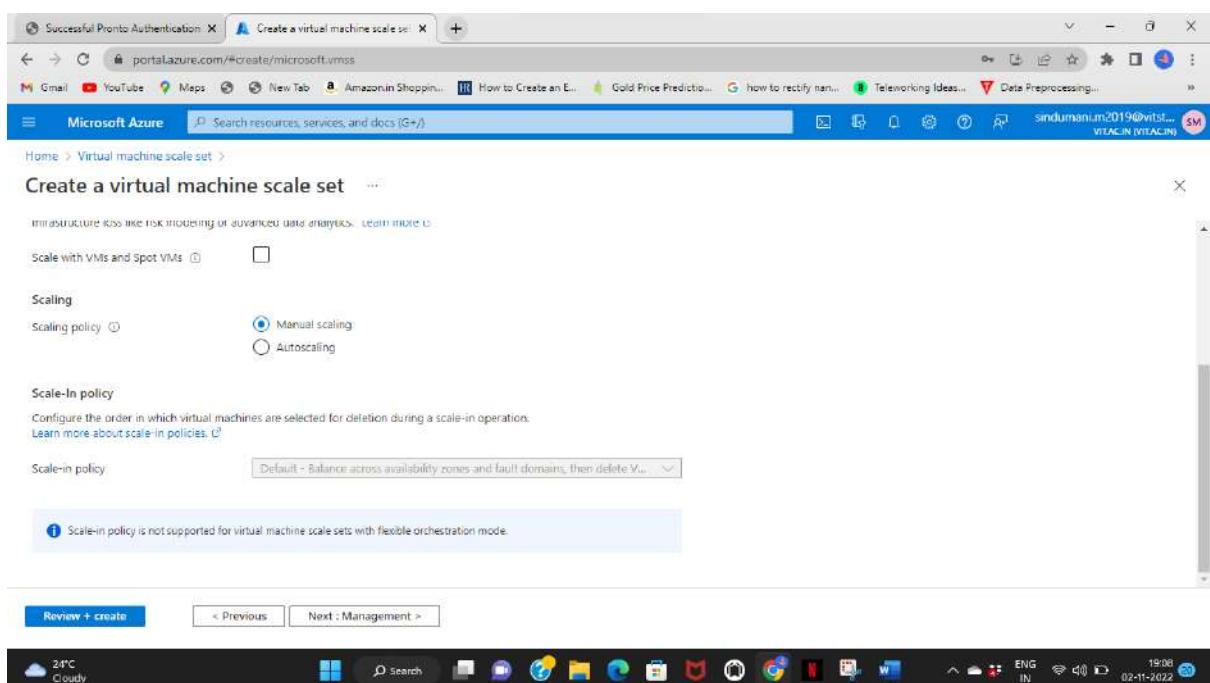
Scaling policy Manual scaling Autoscaling

[Review + create](#) < Previous Next : Management >

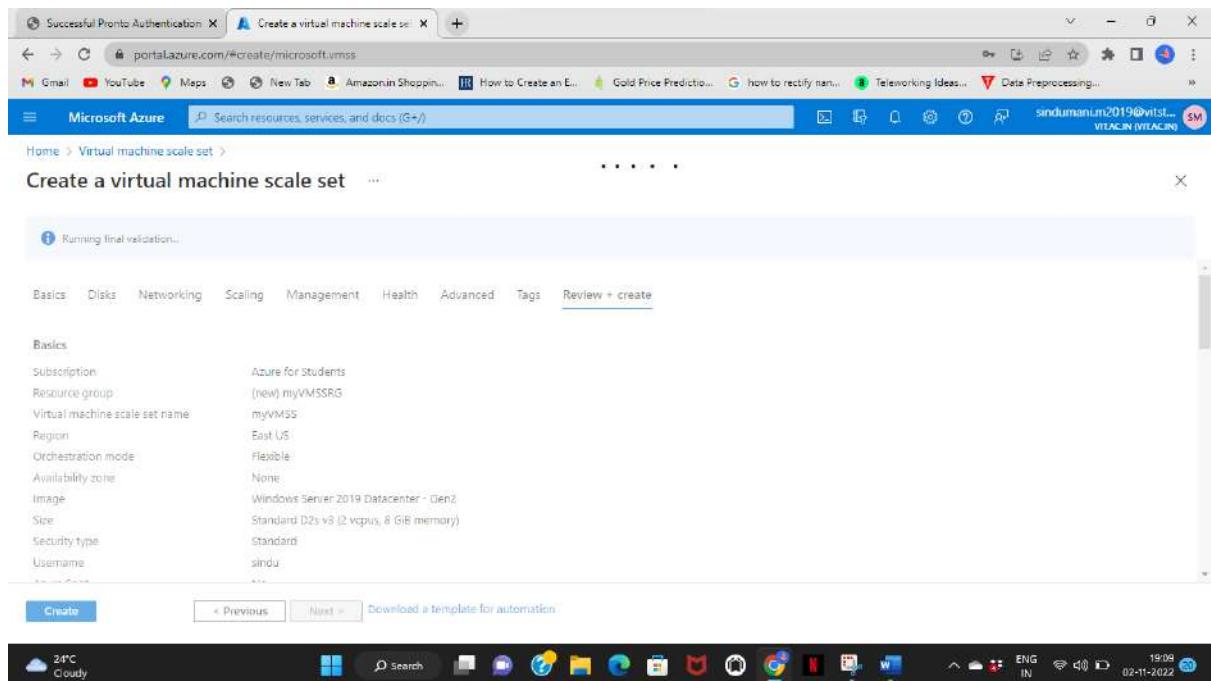




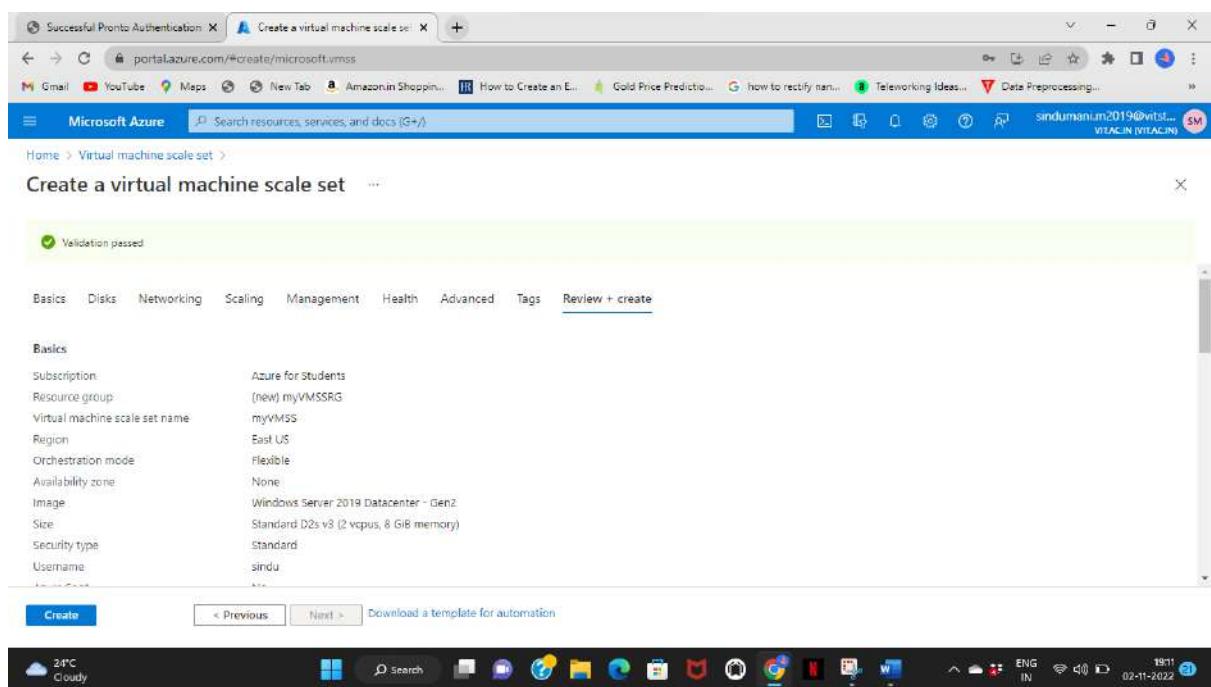
STEP 4:AFTER FILLING,CLICKING REVIEW+CREATE TO CREATE THE VIRTUAL MACHINE SCALE SET



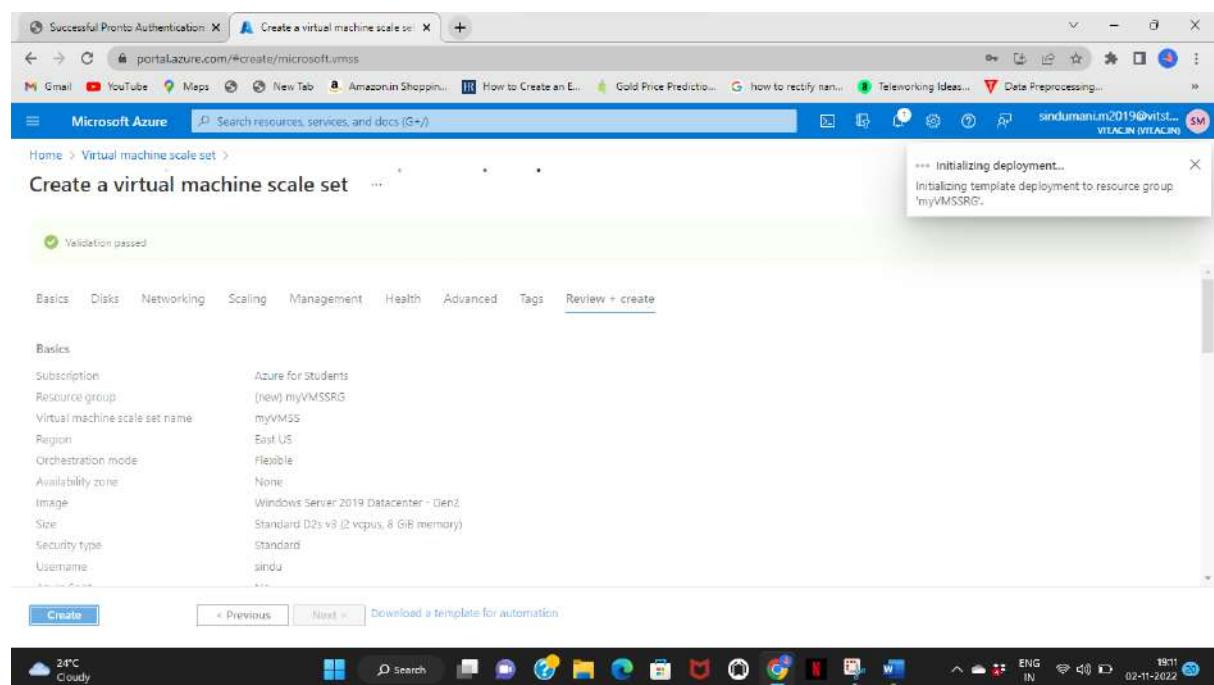
STEP 5:CLICKING CREATE TO CHECK FOR VALIDATION AND FOR CREATING VIRTUAL MACHINE SCALE SET



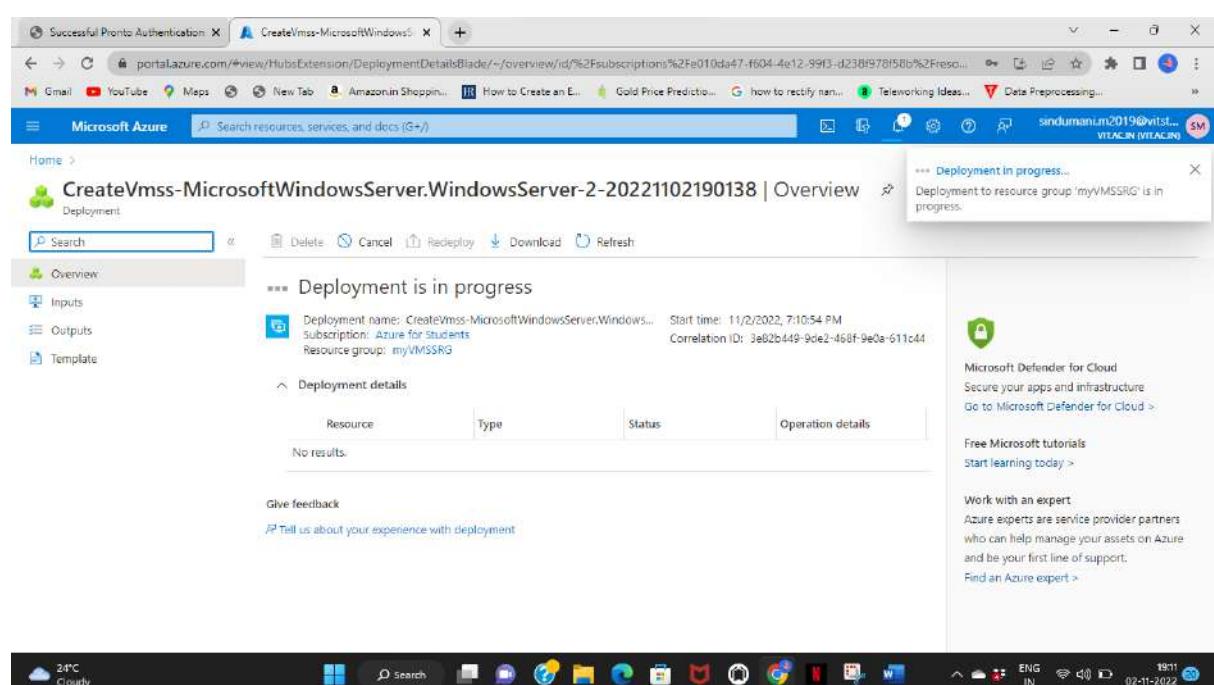
STEP 6:ONCE THE VALIDATIONS ARE PASSED,CLICKING CREATE FOR DEPLOYMENT



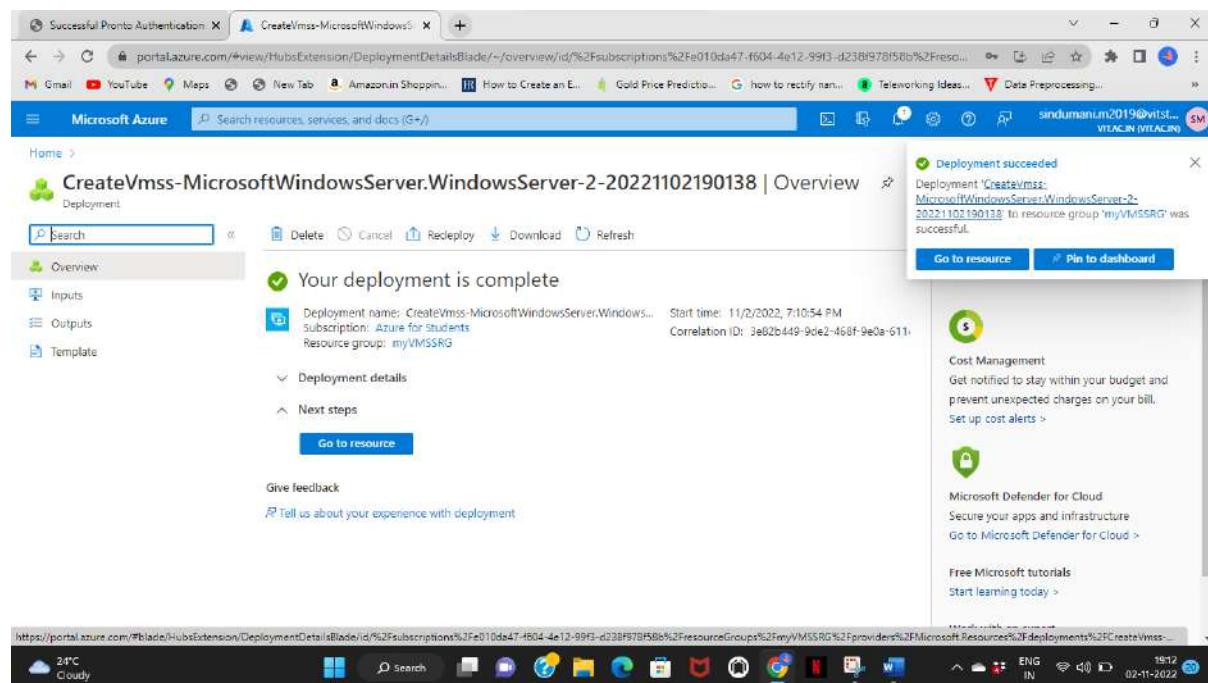
STEP 7:DEPLOYMENT WILL BE INITIALIZED



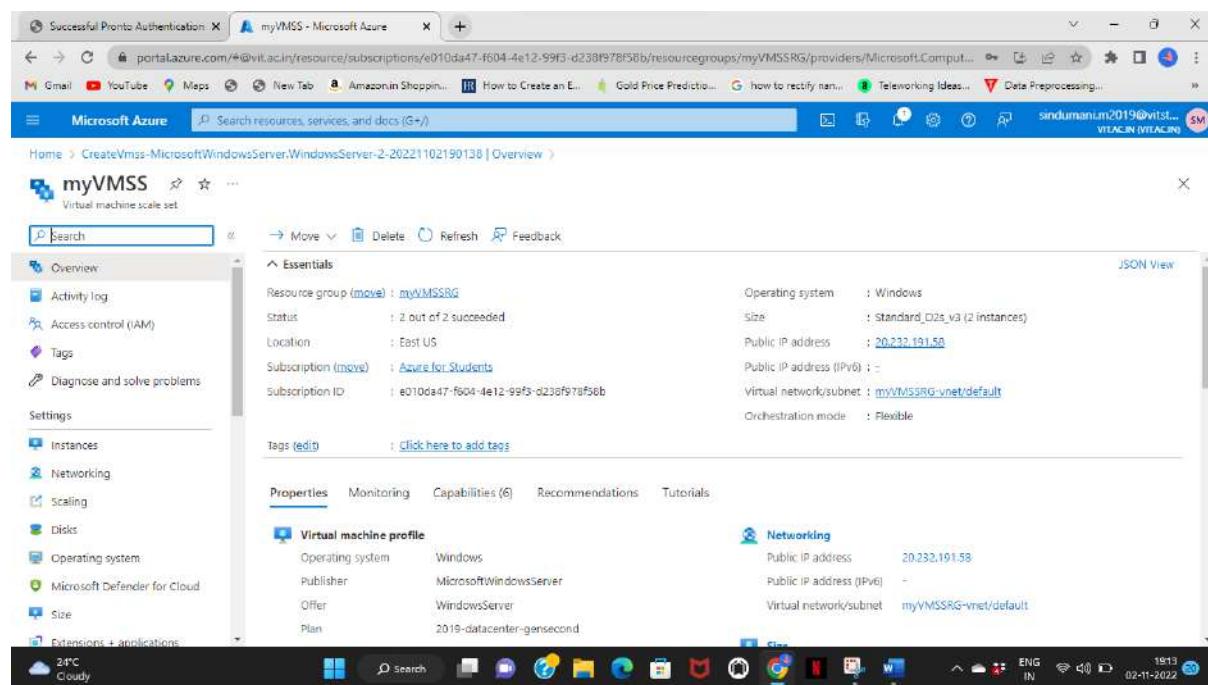
STEP 8:DEPLOYMENT WILL BE PROGRASSED



STEP 9:DEPLOYMENT WILL BE COMPLETED



STEP 10:THE DETAILS OF THE VIRTUAL MACHINE SCALE SET ARE AS FOLLOWS



Successful Pronto Authentication X myVMSS - Microsoft Azure +

portal.azure.com/#@vit.ac.in/resource/subscriptions/e010da47-f604-4e12-99f3-d230f978f58b/resourcegroups/myVMSSRG/providers/Microsoft.Compute/virtualMachineScaleSets/myVMSS

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Microsoft Azure Search resources, services, and docs (G+)

Home > CreateVmss-MicrosoftWindowsServer.WindowsServer-2-20221102190138 | Overview

myVMSS Virtual machine scale set

Search Move Delete Refresh Feedback

Overview Capacity reservation group Size Standard_D2s_v3

Activity log vCPUs 2

Access control (IAM) RAM 8 GiB

Tags

Diagnose and solve problems

Settings Instances

Networking

Scaling

Disk

Operating system

Microsoft Defender for Cloud

Size

Extensions + applications

Management

Disk OS disk Premium SSD LRS

Encryption at host Disabled

Ultra disk compatibility Disabled

Data disks 0

Managed disks Enabled

Ephemeral OS disk N/A

Azure Spot Azure Spot Disabled

Extensions

24°C Cloudy Search

ENG IN 19:13 02-11-2022

Successful Pronto Authentication X myVMSS - Microsoft Azure +

portal.azure.com/#@vit.ac.in/resource/subscriptions/e010da47-f604-4e12-99f3-d230f978f58b/resourcegroups/myVMSSRG/providers/Microsoft.Compute/virtualMachineScaleSets/myVMSS

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Microsoft Azure Search resources, services, and docs (G+)

Home > CreateVmss-MicrosoftWindowsServer.WindowsServer-2-20221102190138 | Overview

myVMSS Virtual machine scale set

Search Move Delete Refresh Feedback

Overview

Management Upgrade policy

Boot diagnostics Enabled

System assigned identity Not enabled

Automatic OS upgrades Not enabled

Termination notifications Not enabled

Termination delay

Health and repair Health monitoring Not enabled

Health monitor

Automatic repairs Not enabled

Grace period

Security type Trusted launch Disabled

Instances

Networking

Scaling

Disk

Operating system

Microsoft Defender for Cloud

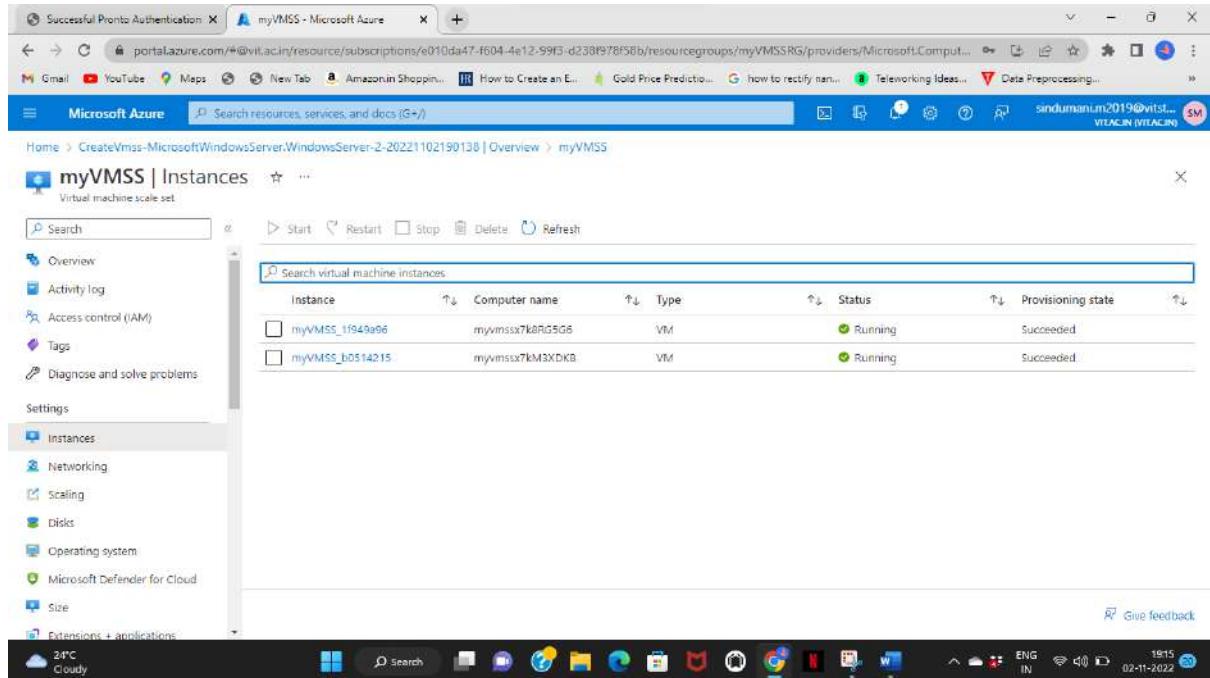
Size

Extensions + applications

Cloudy Search

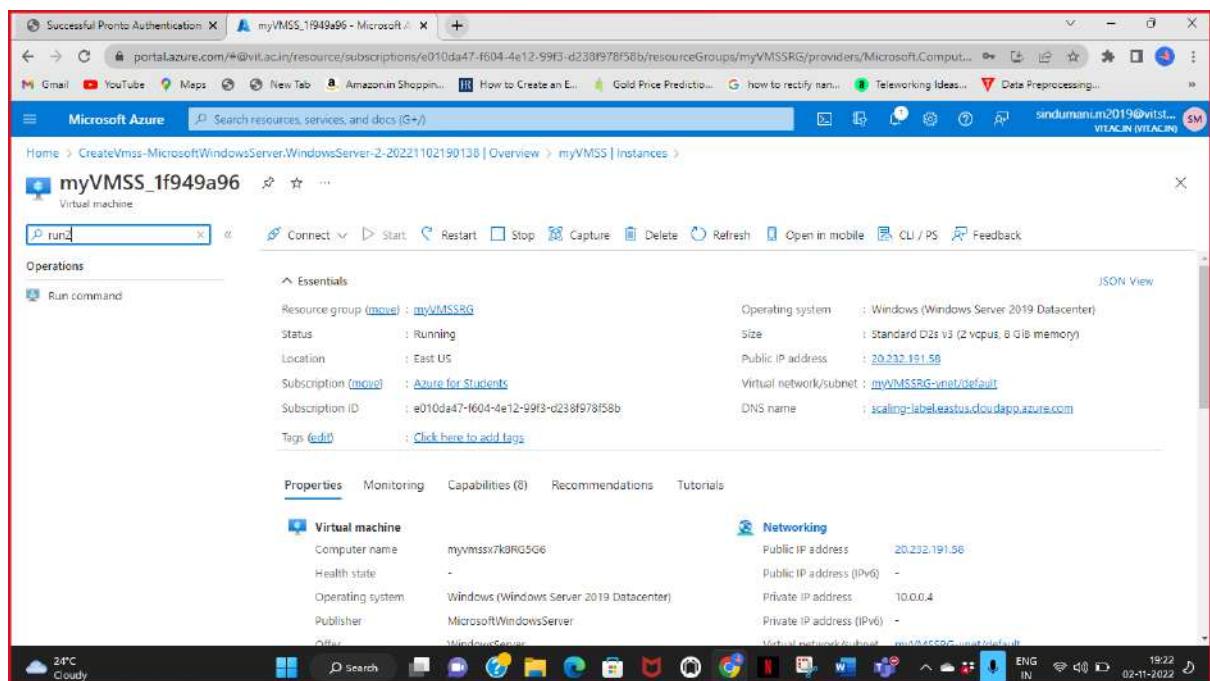
ENG IN 19:14 02-11-2022

STEP 11:CHOOSING THE INSTANCES FROM THE MENU TO VIEW THE STATUS OF THE VIRTUAL MACHINES.THE STATE IS SUCCESSED



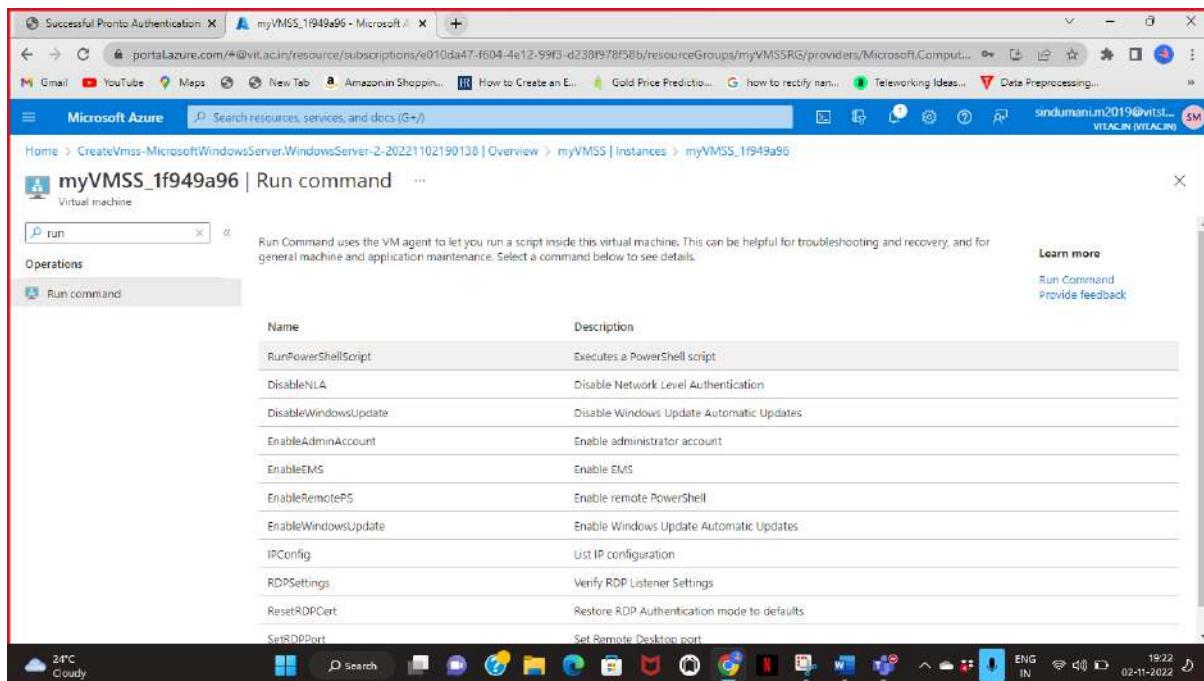
The screenshot shows the Microsoft Azure portal interface. The title bar says "Successful Points Authentication" and "myVMSS - Microsoft Azure". The address bar shows the URL for the Azure portal. The main content area is titled "myVMSS | Instances" and shows a table of virtual machine instances. The table has columns for Instance, Computer name, Type, Status, and Provisioning state. Two instances are listed: "myVMSS_1f949a96" and "myVMSS_b0514215", both of which are running and have a provisioning state of "Succeeded". On the left, there's a sidebar with options like Overview, Activity log, Access control (IAM), Tags, and Diagnose and solve problems. Below the sidebar is a "Settings" section with links for Instances, Networking, Scaling, Disks, Operating system, Microsoft Defender for Cloud, Size, and Extensions + applications. At the bottom of the screen is a taskbar with various icons.

STEP 12:SELECTING THE FIRST VIRTUAL MACHINE AND SEARCHING FOE RUN COMMAND

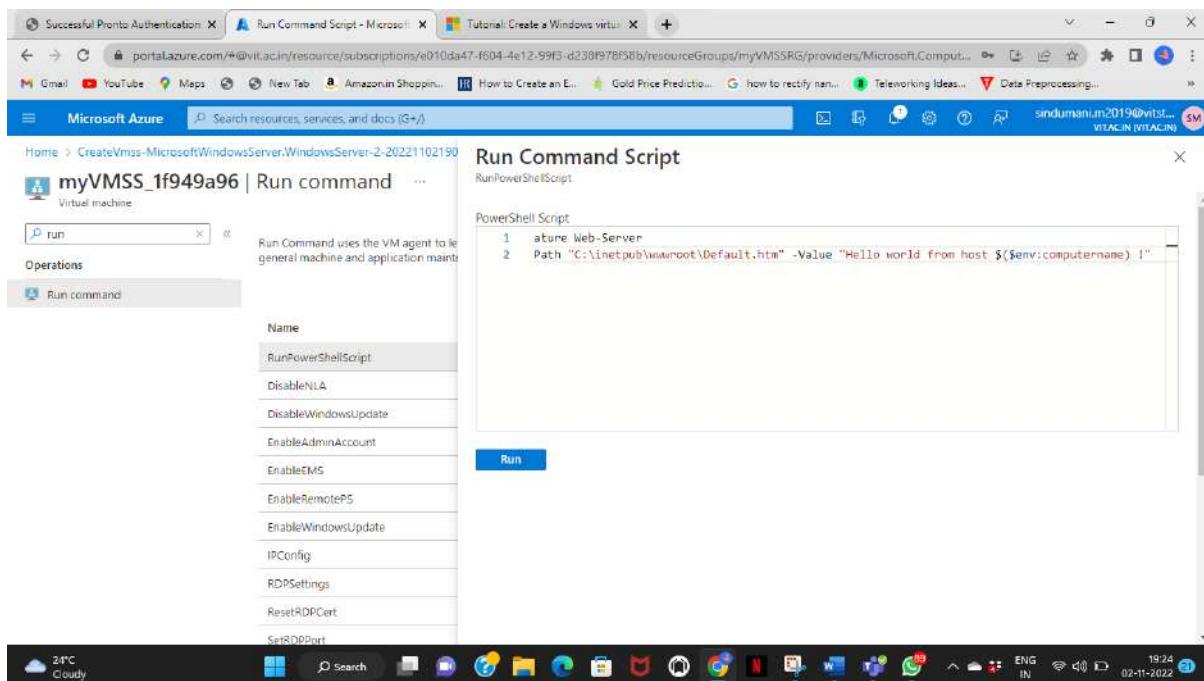


The screenshot shows the Microsoft Azure portal interface, specifically the details for a virtual machine named "myVMSS_1f949a96". The title bar says "Successful Points Authentication" and "myVMSS_1f949a96 - Microsoft Azure". The address bar shows the URL for the Azure portal. The main content area is titled "myVMSS_1f949a96" and shows the "Run command" search bar highlighted with a red box. Below it is an "Operations" section with a "Run command" button. The "Essentials" section provides basic information about the VM, including its resource group ("myVMSSRG"), status ("Running"), location ("East US"), subscription ("Azure for Students"), and tags ("Click here to add tags"). The "Properties" tab is selected, showing detailed information under "Virtual machine" and "Networking" sections. The "Virtual machine" section includes fields for Computer name, Health state, Operating system, Publisher, Offer, and Sku. The "Networking" section includes fields for Public IP address, Private IP address, and Virtual network/subnet. At the bottom of the screen is a taskbar with various icons.

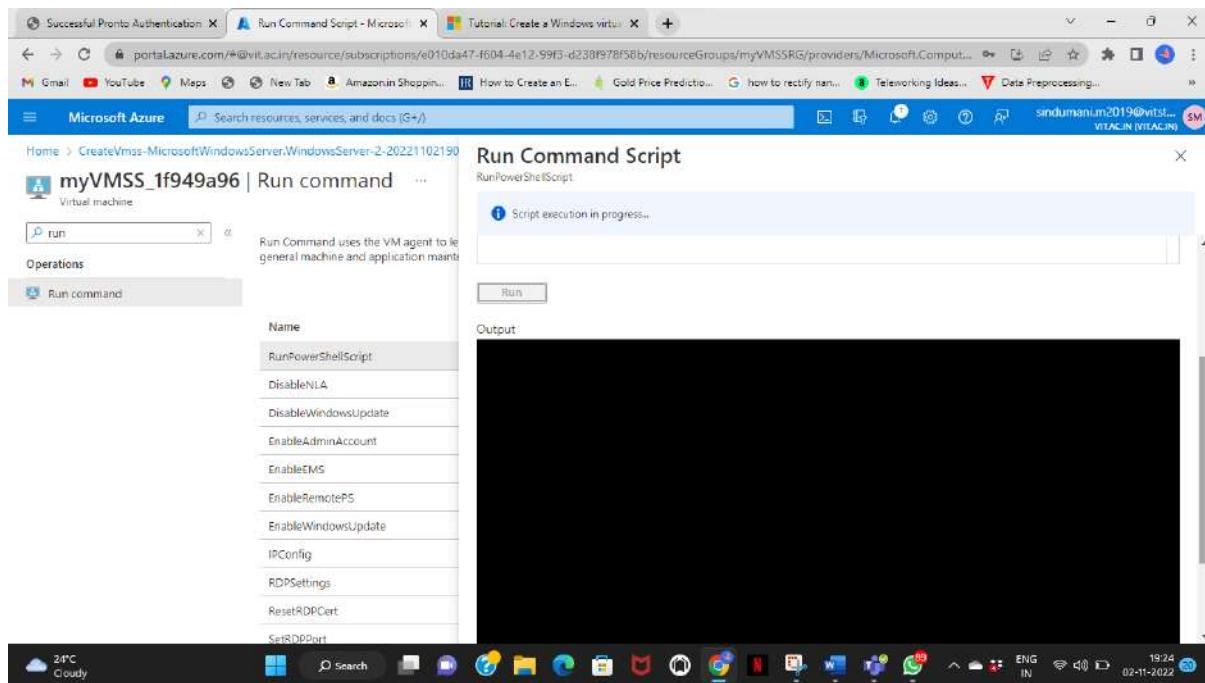
STEP 13:IN THE RUN COMMAND,SELECTING RunPowerShellScript



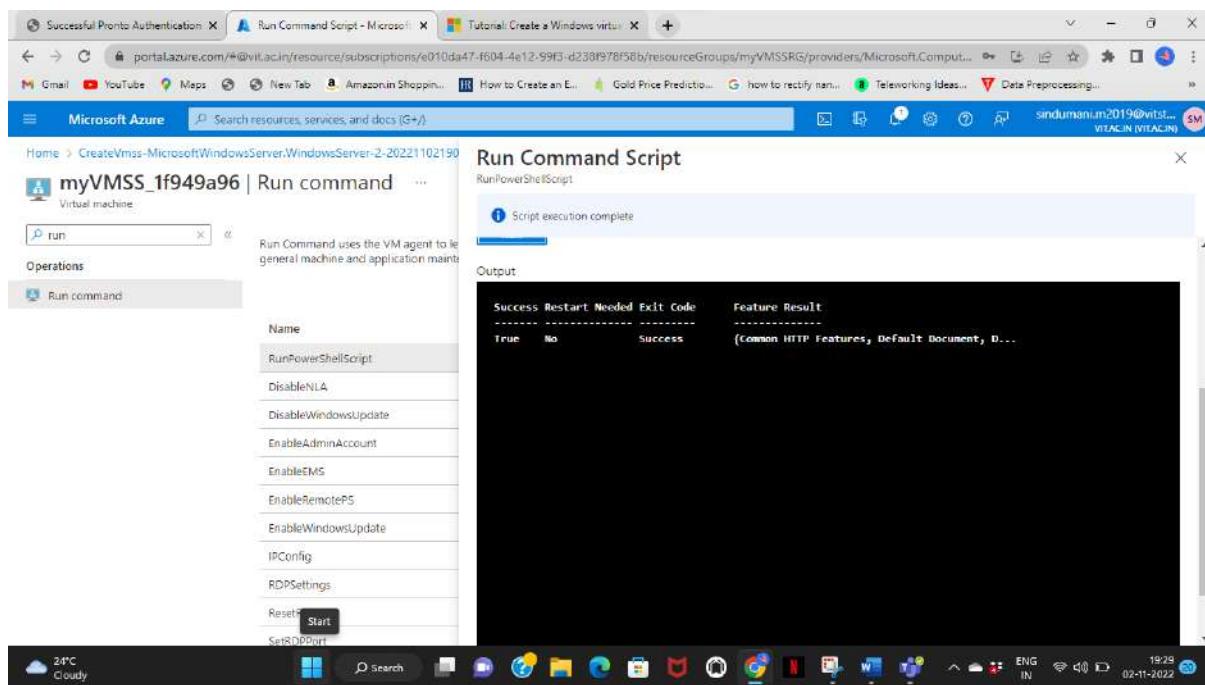
STEP 14:ONCE OPENED,GIVING THE COMMAND IN THE PowerShellScript



STEP 15:SCRIPTING IS IN PROGRESS



STEP 16:SCRIPT EXECUTION IS SUCCESSFULLY COMPLETED



STEP 17:SIMILARLY DOING FOR SECOND VM

The screenshot shows the Microsoft Azure portal interface. The left sidebar has 'myVMSS | Instances' selected under 'Virtual machine scale set'. The main area shows a table of virtual machine instances:

Instance	Computer name	Type	Status	Provisioning state
myVMSS_11949a96	myvmsx7k8RGSGB	VM	Running	Succeeded
myVMSS_b0514215	myvmsx7KM3XDKB	VM	Running	Succeeded

The screenshot shows the Microsoft Azure portal interface. The left sidebar has 'Run command' selected under 'Virtual machine'. The main area shows a list of PowerShell commands:

Name	Description
RunPowerShellScript	Executes a PowerShell script
DisableNLA	Disable Network Level Authentication
DisableWindowsUpdate	Disable Windows Update Automatic Updates
EnableAdminAccount	Enable administrator account
EnableEMS	Enable EMS
EnableRemotePS	Enable remote PowerShell
EnableWindowsUpdate	Enable Windows Update Automatic Updates
IPConfig	List IP configuration
RDPSettings	Verify RDP Listener Settings
ResetRDPCert	Restore RDP Authentication mode to defaults
SetRDPPort	Set Remote Desktop port

Successful Point Authentication | myVMSS_b0514215 - Microsoft | Tutorial: Create a Windows virtu... +

portal.azure.com/#@vit.ac.in/resource/subscriptions/e010da47-f604-4e12-99f3-d230f978f58b/resourceGroups/myVMSSRG/providers/Microsoft.Compute/virtualMachines/myVMSS_b0514215/runCommand

Home > CreateVmss-MicrosoftWindowsServer.WindowsServer-2-20221102190138 | Overview > myVMSS | Instances > myVMSS_b0514215

myVMSS_b0514215 | Run command ...

Virtual machine

run command

Run Command uses the VM agent to let you run a script inside this virtual machine. This can be helpful for troubleshooting and recovery, and for general machine and application maintenance. Select a command below to see details.

Operations

Name	Description
RunPowerShellScript	Executes a PowerShell script
DisableNLA	Disable Network Level Authentication
DisableWindowsUpdate	Disable Windows Update Automatic Updates
EnableAdminAccount	Enable administrator account
EnableEMS	Enable EMS
EnableRemotePS	Enable remote PowerShell
EnableWindowsUpdate	Enable Windows Update Automatic Updates
IPConfig	List IP configuration
RDPSettings	Verify RDP Listener Settings
ResetRDPCert	Restore RDP Authentication mode to defaults
SetRDPPort	Set Remote Desktop port

Learn more

Run Command

Provide feedback

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Search

Run Command Script - Microsoft | Tutorial: Create a Windows virtu... +

portal.azure.com/#@vit.ac.in/resource/subscriptions/e010da47-f604-4e12-99f3-d230f978f58b/resourceGroups/myVMSSRG/providers/Microsoft.Compute/virtualMachines/myVMSS_b0514215/runCommand

Home > CreateVmss-MicrosoftWindowsServer.WindowsServer-2-20221102190138

myVMSS_b0514215 | Run command ...

Virtual machine

run command

Run Command uses the VM agent to let you run a script inside this virtual machine. This can be helpful for troubleshooting and recovery, and for general machine and application maintenance. Select a command below to see details.

Operations

Name
RunPowerShellScript
DisableNLA
DisableWindowsUpdate
EnableAdminAccount
EnableEMS
EnableRemotePS
EnableWindowsUpdate
IPConfig
RDPSettings
ResetRDPCert
SetRDPPort

Run Command Script

RunPowerShellScript

PowerShell Script

```
1 $true | Set-Web-Server
2 Path "C:\inetpub\wwwroot\Default.htm" -Value "Hello world from host $($env:computername).!"
```

Run

Output

24°C Cloudy

Search

Successful Point Authentication | Run Command Script - Microsoft | Tutorial: Create a Windows virtu... +

portal.azure.com/#@vit.ac.in/resource/subscriptions/e010da47-f604-4e12-99f3-d230f978f58b/resourceGroups/myVMSSRG/providers/Microsoft.Compute/virtualMachines/myVMSS_b0514215/runCommand

Home > CreateVmss-MicrosoftWindowsServer.WindowsServer-2-20221102190138

myVMSS_b0514215 | Run command ...

Virtual machine

run command

Run Command uses the VM agent to let you run a script inside this virtual machine. This can be helpful for troubleshooting and recovery, and for general machine and application maintenance. Select a command below to see details.

Operations

Name
RunPowerShellScript
DisableNLA
DisableWindowsUpdate
EnableAdminAccount
EnableEMS
EnableRemotePS
EnableWindowsUpdate
IPConfig
RDPSettings
ResetRDPCert
SetRDPPort

Run Command Script

RunPowerShellScript

PowerShell Script

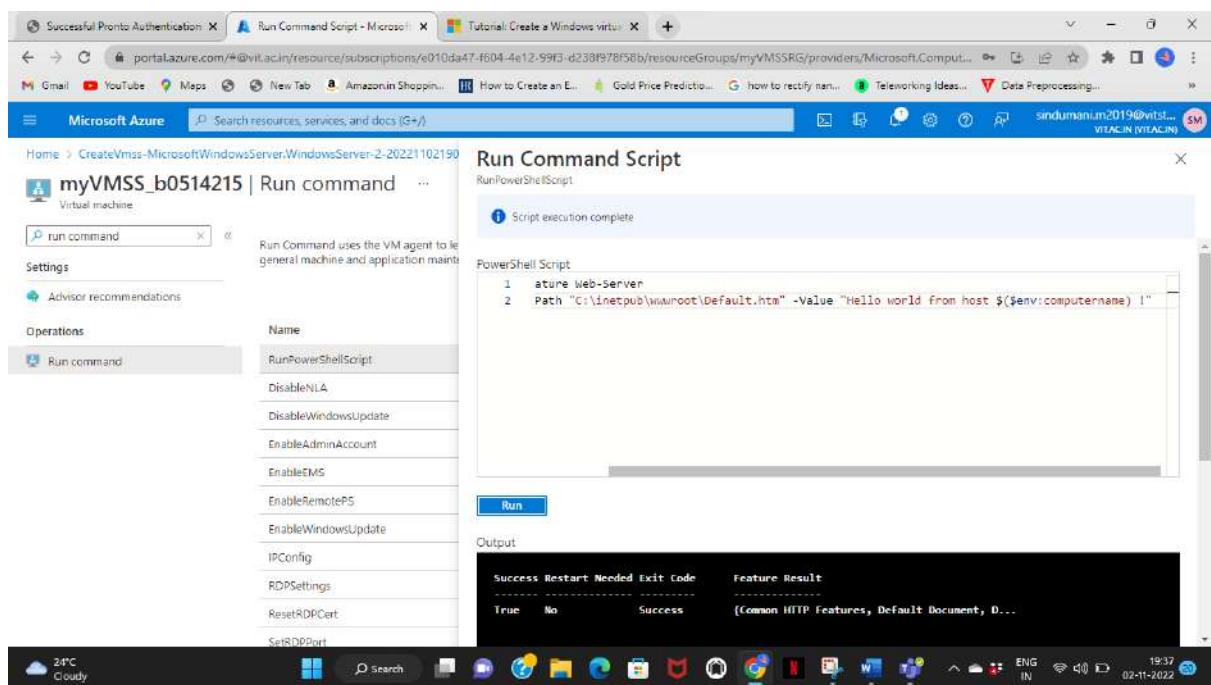
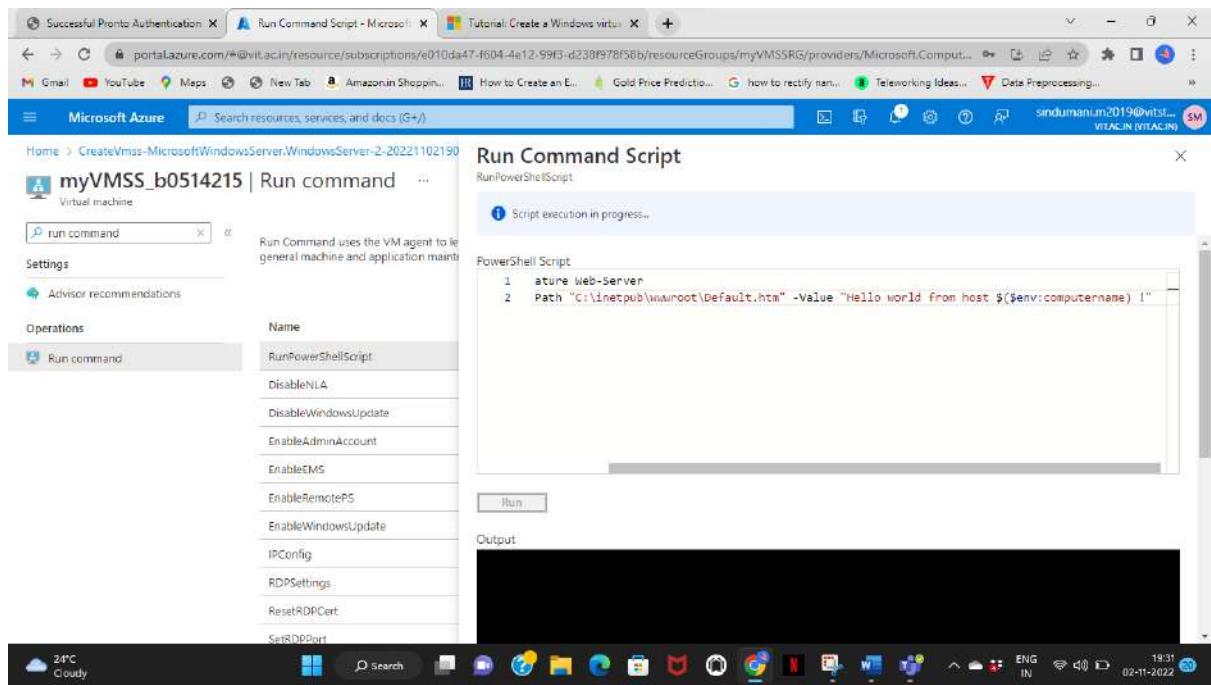
```
1 $true | Set-Web-Server
2 Path "C:\inetpub\wwwroot\Default.htm" -Value "Hello world from host $($env:computername).!"
```

Run

Output

24°C Cloudy

Search



STEP 18:CHOOSING NETWORKING MENU,FOR ADDING THE INBOUND PORT RULE

Microsoft Azure | myVMSS | Networking

Network Interface: myVMSSRG-vnet-nic01 | Topology

Inbound port rules

Priority	Name	Port	Protocol	Source	Destination	Action
65000	AllowVnetInbound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancer	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInbound	Any	Any	Any	Any	Deny

STEP 19:IN THE SERVICE LABEL,CHOOSING HTTP

Add inbound security rule

basicNsgmyVMSSRG-vnet-nic01

Source: Any

Source port ranges: *

Destination: Any

Service: **HTTP**

HTTPS
SSH
RDP
MS SQL
MySQL
PostgreSQL

STEP 20:CLICKING ADD TO ADD THE INBOUND SECURITY RULE

The screenshot shows the Microsoft Azure portal interface for managing a Virtual Machine Scale Set named 'myVMSS'. The 'Networking' tab is selected. On the right, a modal window titled 'Add inbound security rule' is open. The 'Source' dropdown is set to 'Any'. The 'Service' dropdown is set to 'HTTP'. The 'Destination' dropdown is set to 'Any'. The 'Protocol' dropdown has 'TCP' selected. The 'Destination port ranges' field contains '80'. The 'Priority' column in the table below shows values 65000, 65001, and 65500. The 'Name' column lists 'AllowVnetInbound', 'AllowAzureLoadBalanc...', and 'DenyAllInbound'. The 'Port' column shows 'Any' for all rules. The 'Protocol' column shows 'Any' for the first two rules and 'Any' for the third. The 'Action' column shows 'Allow' for the first two rules and 'Deny' for the third.

STEP 21:SECURITY RULE IS SUCCESSFULLY CREATED

The screenshot shows the Microsoft Azure portal interface for managing a Virtual Machine Scale Set named 'myVMSS'. The 'Networking' tab is selected. A success message 'Created security rule Successfully created security rule 'AllowAnyHTTPInbound'' is displayed. The 'Inbound port rules' table now includes a new row for 'AllowAnyHTTPInbound' with priority 100, port 80, TCP protocol, and Allow action. The other three rules remain: AllowVnetInbound, AllowAzureLoadBalanc..., and DenyAllInbound.

STEP 22:CHOOSING THE OVERVIEW MENU AND COPYING THE PUBLIC IP ADDRESS

The screenshot shows the Microsoft Azure portal interface. The left sidebar shows 'myVMSS' under 'Virtual machine scale set'. The main area is titled 'Overview' with a sub-section 'Essentials'. Key details include:

- Resource group: myVMSSRG
- Status: 2 out of 2 succeeded
- Location: East US
- Subscription: Azure for Students
- Subscription ID: e010da47-f604-4e12-99f3-d238f978f56b
- Operating system: Windows
- Size: Standard_B1ms
- Public IP address: 20.232.191.58
- Virtual network/subnet: myVMSSRG-vnet/default
- Orchestration mode: Flexible

The 'Public IP address' field has a tooltip 'Copy to clipboard' and a small icon indicating it's copied.

STEP 23:PASTING THE ADDRESS IN THE BROWSER TO VIEW THE OUTPUT

The screenshot shows a web browser window with the URL 20.232.191.58. The page content is:

Hello world from host myvmssx7kM3XDKB!