

CLOUD COMPUTING METHODOLOGIES

DIGITAL ASSIGNMENT-1

NAME:SINDUMANI.M

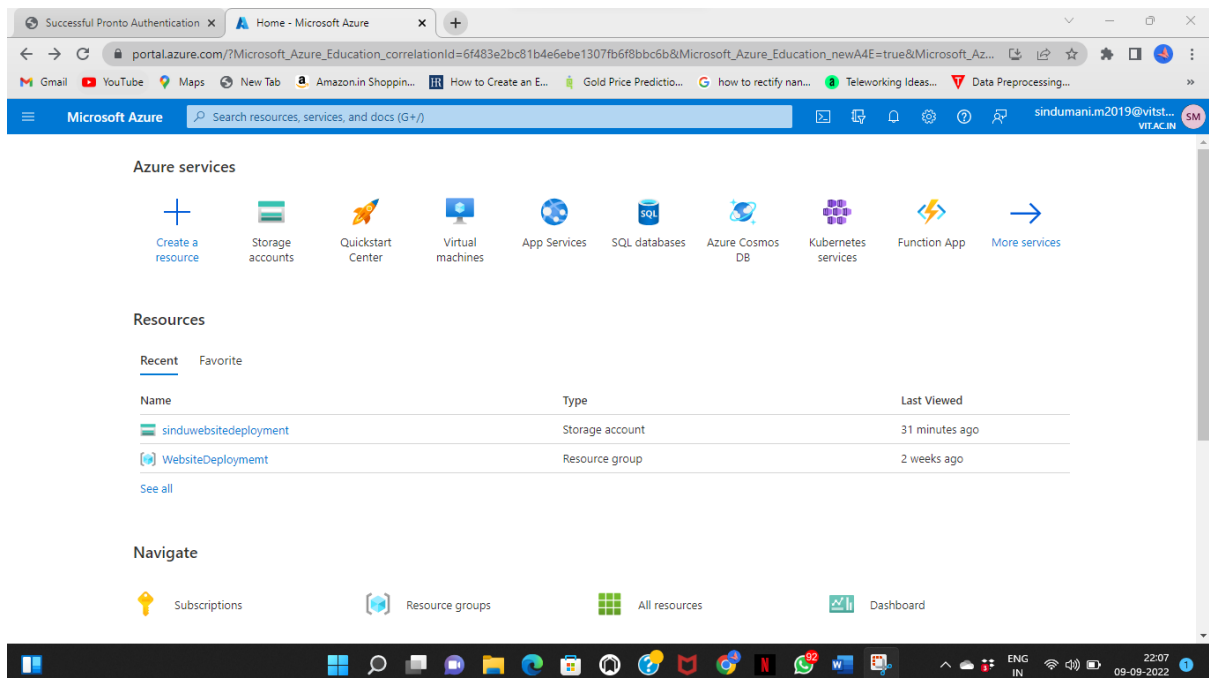
REGNO:19MIC0002

SLOT:L9+L10

1)CREATING AN VIRTUAL MACHINE AND INVOKING ANOTHER VIRTUAL MACHINE INTO IT.

CREATING VIRTUAL MACHINE1

i)Clicking create a resource to create a resource group



ii)Creating resource group

Successful Pronto Authentication x Create a resource - Microsoft Az x +

portal.azure.com/?Microsoft_Azure_Education_correlationId=6f483e2bc81b4e6ebe1307fb6f8bbc6b8&Microsoft_Azure_Education_newA4E=true&Microsoft_Az...

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

Home >

Create a resource

Get Started resourcegroup Getting Started? Try our Quickstart center

Recently created

Categories

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Compute

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Identity

Integration

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Virtual machine Create | Learn more

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Azure Cosmos DB Create | Docs | MS Learn

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iii)Creating resource group

Successful Pronto Authentication x Marketplace - Microsoft Azure x +

portal.azure.com/?Microsoft_Azure_Education_correlationId=6f483e2bc81b4e6ebe1307fb6f8bbc6b8&Microsoft_Azure_Education_newA4E=true&Microsoft_Az...

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

Home > Create a resource >

Marketplace

Get Started resourcegroup Pricing: All Operating System: All Publisher Type: All Product Type: All Publisher name: All

Showing 1 to 20 of 59 results for 'resource group'. Clear search

Tile view

Resource group

Microsoft

Azure Service

Manage and deploy resources in an application together

Starts at Free

Create

Resource Scheduler

Lumagate Inc

Azure Application

An easy-to-use web application to schedule start/stop of Azure IaaS (virtual machine) resources.

Starts at Free

Create

Network security group

Microsoft

Azure Service

A virtual firewall to control inbound and outbound traffic for virtual machines and subnets.

Bring your own license

Create

Resource Central - Meeting Room Booking System

Add-On Products

Virtual Machine

MEETING SCHEDULING SOFTWARE

Create

Template deployment (deploy using custom)

Microsoft

Azure Service

Customize your template and build for the cloud

Create

Is Marketplace helpful?

22:11 09-09-2022

iv) clicking create to create our resource group

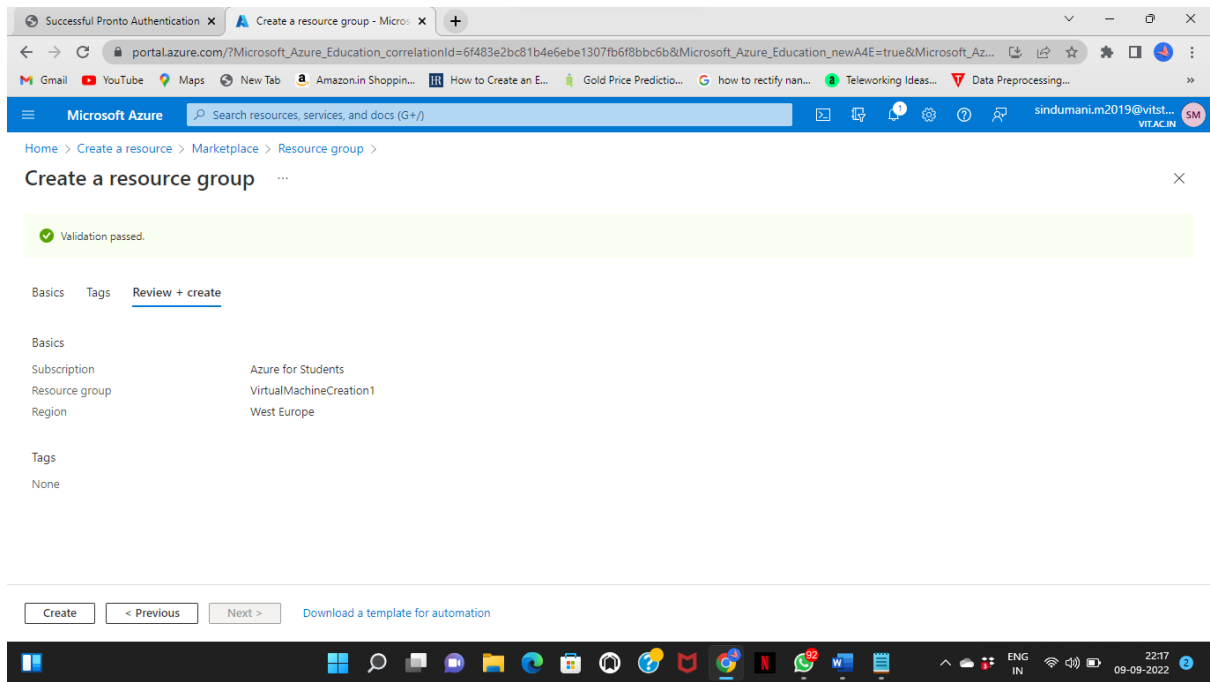
The screenshot shows the Microsoft Azure portal interface. The browser address bar displays the URL: `portal.azure.com/?Microsoft_Azure_Education_correlationId=6f483e2bc81b4e6ebe1307fb6f8bbc6b&Microsoft_Azure_Education_newA4E=true&Microsoft_Az...`. The page title is 'Resource group' with a sub-header 'Microsoft'. Below the title, there is a 'Plan' section with a dropdown menu set to 'Resource group' and a 'Create' button. The 'Overview' tab is selected, showing a description: 'Resource groups enable you to manage all your resources in an application together. Resource groups are enabled by Azure Resource Manager. Resource Manager allows you to group multiple resources as a logical group which serves as the lifecycle boundary for every resource contained within it. Typically a group will contain resources related to a specific application. For example, a group may contain a Website resource that hosts your public website, a SQL Database that stores relational data used by the site, and a Storage Account that stores non-relational assets.' Below this, there are four product tiles: 'Active Directory Health Check', 'AD Replication Status', 'Device Update for IoT Hub', and 'Front Door and CDN profiles'.

v) Giving the resource group name

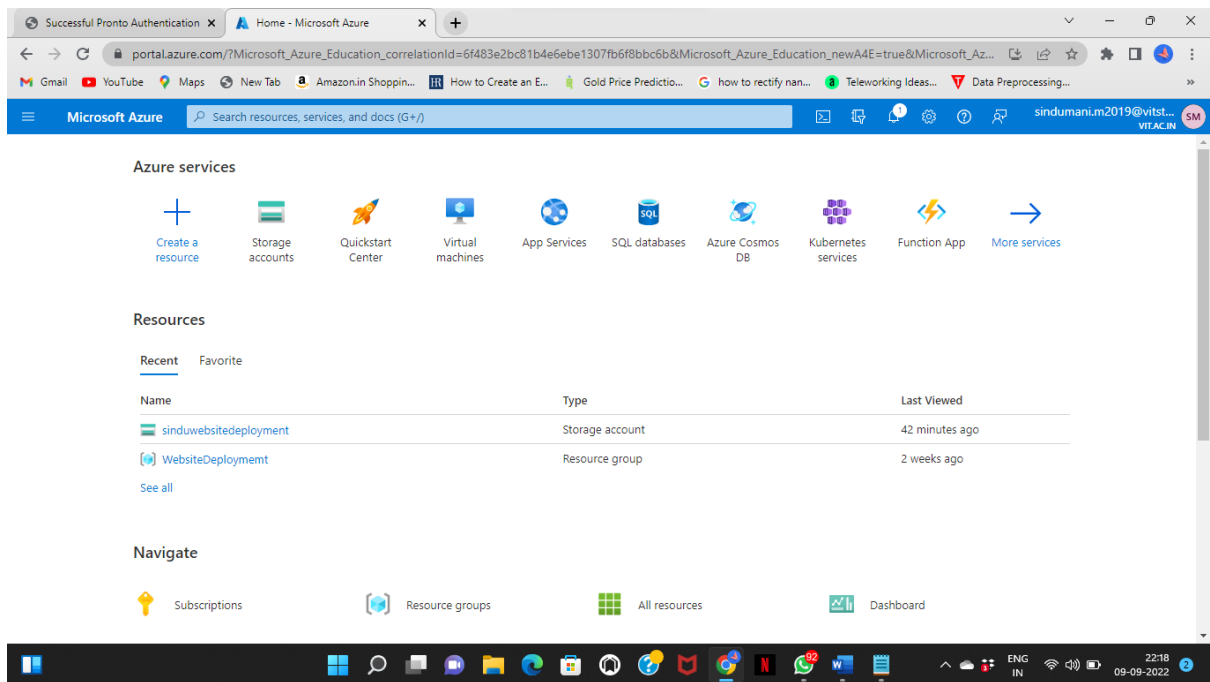
The screenshot shows the 'Create a resource group' page in the Microsoft Azure portal. The browser address bar displays the URL: `portal.azure.com/?Microsoft_Azure_Education_correlationId=6f483e2bc81b4e6ebe1307fb6f8bbc6b&Microsoft_Azure_Education_newA4E=true&Microsoft_Az...`. The page title is 'Create a resource group'. Below the title, there is a 'Basics' tab selected, showing a description: 'Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)'.

The 'Project details' section includes a 'Subscription' dropdown set to 'Azure for Students' and a 'Resource group' dropdown set to 'VirtualMachineCreation1'. The 'Resource details' section includes a 'Region' dropdown set to '(Europe) West Europe'. At the bottom, there are three buttons: 'Review + create', '< Previous', and 'Next: Tags >'. The 'Review + create' button is highlighted.

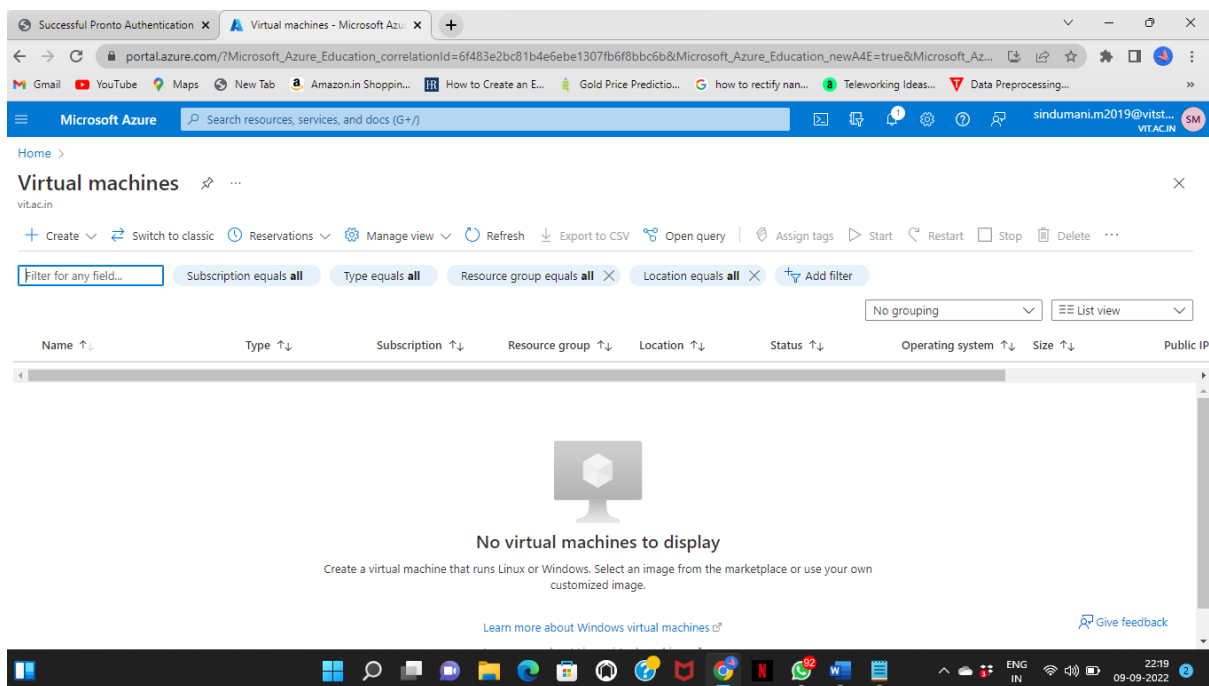
vi) By clicking review+create, the resource group will be created



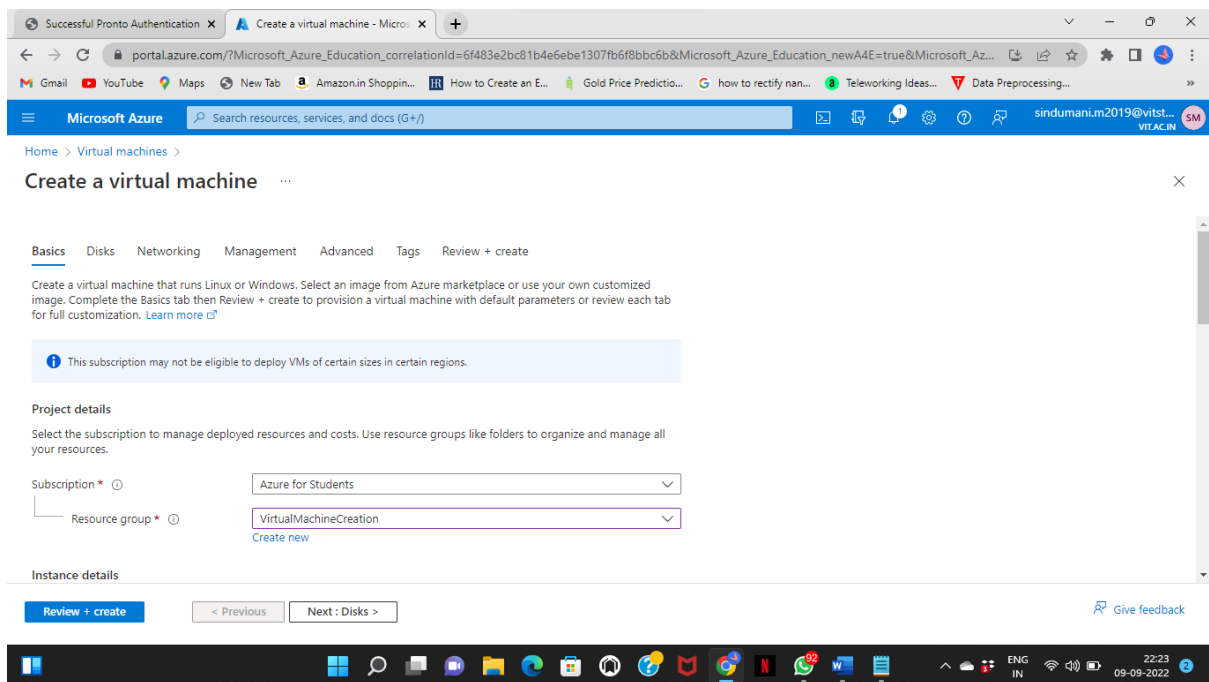
vii)After creating an resource group,virtual machine has to be created



viii)By clicking create,virtual machine can be created



ix)Creating virtual machine



x) Giving the virtual machine name and other details

Successful Pronto Authentication x Create a virtual machine - Micro x +

portal.azure.com/?Microsoft_Azure_Education_correlationId=6f483e2bc81b4e6be1307fb6f8bbc6b&Microsoft_Azure_Education_newA4E=true&Microsoft_Az...

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

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

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 ☐ Arm64 ☒ x64
Arm64 is not supported with the selected image.

Run with Azure Spot discount ☐

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

Successful Pronto Authentication x Create a virtual machine - Micro x +

portal.azure.com/?Microsoft_Azure_Education_correlationId=6f483e2bc81b4e6be1307fb6f8bbc6b&Microsoft_Azure_Education_newA4E=true&Microsoft_Az...

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

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

Home > Virtual machines >

Create a virtual machine

Run with Azure Spot discount ☐

Size *
[See all sizes](#)

Administrator account

Username *

Password *

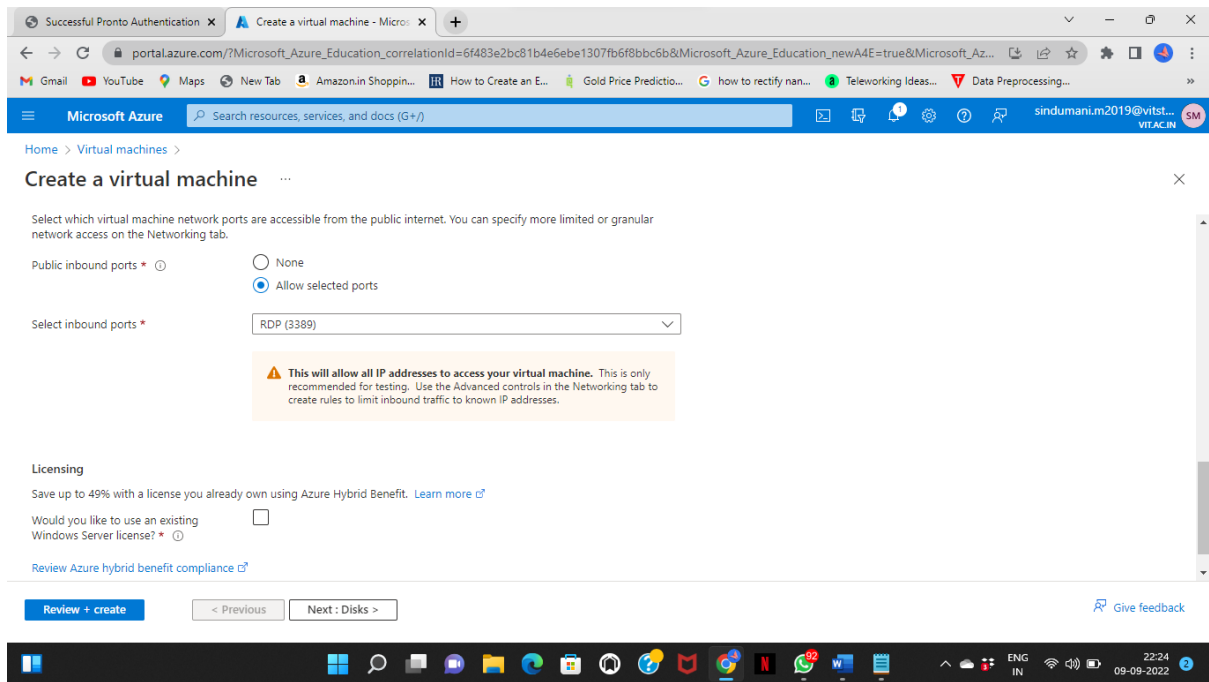
Confirm password *

Inbound port rules

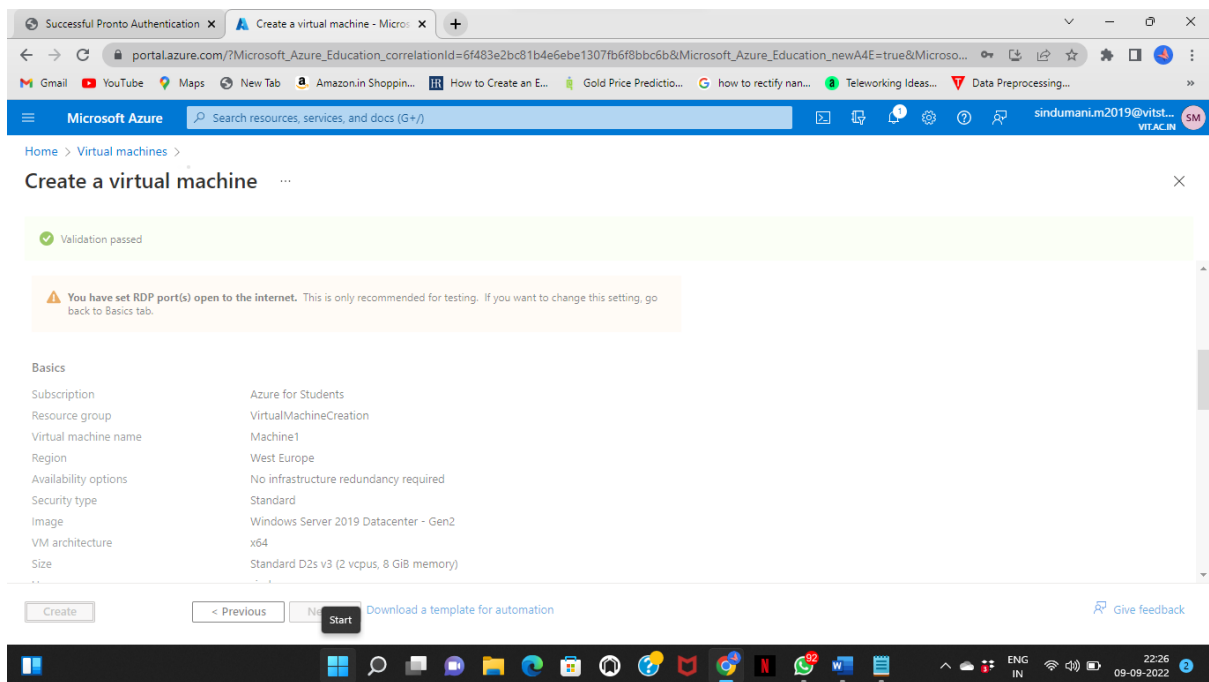
Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ☐ None ☒ Allow selected ports

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



xi) On clicking review+create, it checks the details for passing the validations and on clicking create the deployment process runs



xii)The deployment process is in progress

The screenshot shows the Azure portal interface for a deployment named 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20220909222048'. The deployment is in progress. The left sidebar shows the navigation menu with 'Overview' selected. The main content area displays the deployment status and details.

Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 9/9/2022, 10:26:04 PM
Subscription: Azure for Students Correlation ID: f19c4b08-c729-45d0-9e49-7d7eb5
Resource group: VirtualMachineCreation

Deployment details

Resource	Type	Status	Operation details
Machine1	Microsoft.Compute/virtual...	Created	Operation details
machine1542	Microsoft.Network/network...	Created	Operation details
Machine1-ip	Microsoft.Network/publici...	OK	Operation details
VirtualMachineCreation-vnet	Microsoft.Network/virtual...	OK	Operation details
Machine1-nsg	Microsoft.Network/network...	OK	Operation details

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xiii)Deployment Completed

The screenshot shows the Azure portal interface for the same deployment, now completed. The left sidebar shows the navigation menu with 'Overview' selected. The main content area displays the deployment status and next steps.

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 9/9/2022, 10:26:04 PM
Subscription: Azure for Students Correlation ID: f19c4b08-c729-45d0-9e49-7d7e
Resource group: VirtualMachineCreation

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](#)

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

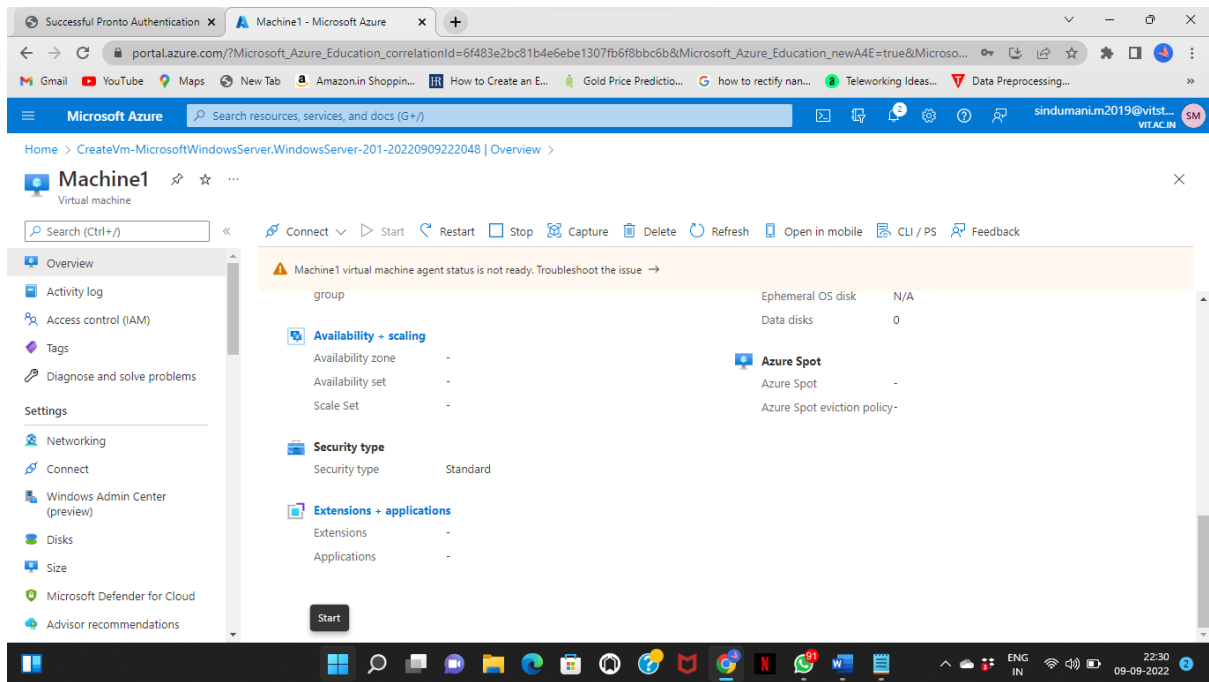
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xiv)The details of the virtual machine are as follows

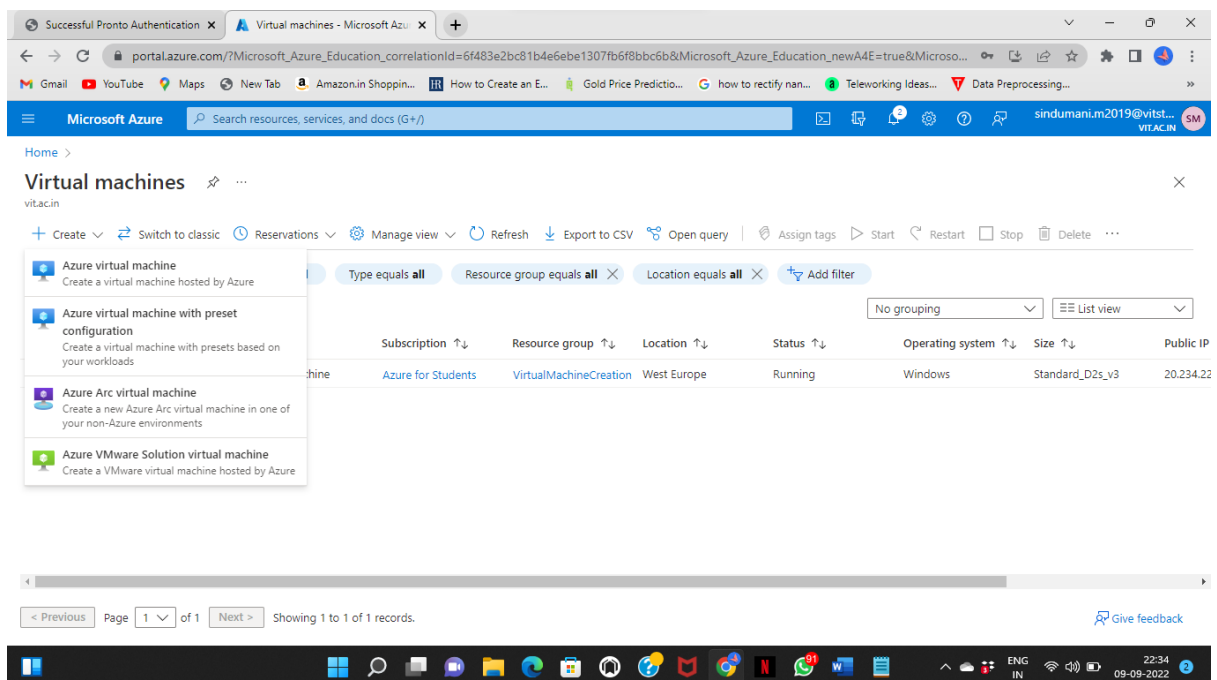
The screenshot displays the Microsoft Azure portal interface for a virtual machine named 'Machine1'. The left sidebar contains navigation options such as Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Connect, Windows Admin Center (preview), Disks, Size, Microsoft Defender for Cloud, and Advisor recommendations. The main content area shows the 'Overview' tab with a warning message: 'Machine1 virtual machine agent status is not ready. Troubleshoot the issue →'. Below this, the 'Essentials' section provides key information: Resource group (VirtualMachineCreation), Status (Running), Location (West Europe), Subscription ID (e010da47-f604-4e12-99f3-d238f978f58b), Operating system (Windows), Size (Standard D2s v3 (2 vcpus, 8 GiB memory)), Public IP address (20.234.226.162), Virtual network/subnet (VirtualMachineCreation-vnet/default), and DNS name (Not configured). The 'Properties' section lists the Computer name (Machine1), Health state (-), and Operating system (Windows). The 'Networking' section shows the Public IP address (20.234.226.162) and Private IP address (10.0.0.4).

This screenshot shows the 'Details' tab for the virtual machine 'Machine1'. It provides a comprehensive overview of the VM's configuration and status. The 'Properties' section includes details such as Publisher (MicrosoftWindowsServer), Offer (WindowsServer), Plan (2019-datacenter-gensecond), VM generation (V2), VM architecture (x64), Agent status (Not Ready), Agent version (Unknown), Host group (None), Host (-), Proximity placement group (-), Colocation status (N/A), and Capacity reservation group (-). The 'Networking' section shows the Private IP address (IPv6) as -, Virtual network/subnet as VirtualMachineCreation-vnet/default, and DNS name as Configure. The 'Size' section lists the Size (Standard D2s v3), vCPUs (2), and RAM (8 GiB). The 'Disk' section shows the OS disk (Machine1_disk1_47e081c4d37f4d448607d7f910d00800), Encryption at host (Disabled), Azure disk encryption (Not enabled), Ephemeral OS disk (N/A), and Data disks (0).



CREATING SECOND VIRTUAL MACHINE:

i) Creating second virtual machine as like before



ii) After creating, the deployment has to be completed

Successful Pronto Authentication x CreateVm-MicrosoftWindowsServer-201-20220909223631 | Overview

portal.azure.com/?Microsoft_Azure_Education_correlationId=6f483e2bc81b4e6e1307fb6f8bbc6b&Microsoft_Azure_Education_newA4E=true&Microsoft_Az...

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

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20220909223631 | Overview

Deployment

Search (Ctrl+/) Delete Cancel Redeploy Download Refresh

We'd love your feedback! →

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 9/9/2022, 10:43:21 PM
Subscription: Azure for Students Correlation ID: e319f735-4073-a64e-d49f
Resource group: VirtualMachineCreation

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

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iii)The details of the virtualmachine2 are as follows

Successful Pronto Authentication x VirtualMachineCreation2 - Micro x

portal.azure.com/?Microsoft_Azure_Education_correlationId=6f483e2bc81b4e6e1307fb6f8bbc6b&Microsoft_Azure_Education_newA4E=true&Microsoft_Az...

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

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20220909223631 | Overview >

VirtualMachineCreation2 Virtual machine

Search (Ctrl+/) 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 (preview)
Disks
Size
Microsoft Defender for Cloud
Advisor recommendations

Essentials

Resource group (move) : VirtualMachineCreation
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 : 137.117.166.91
Virtual network/subnet : VirtualMachineCreation-vnet/default
DNS name : Not configured

JSON View

Properties Monitoring Capabilities (8) Recommendations Tutorials

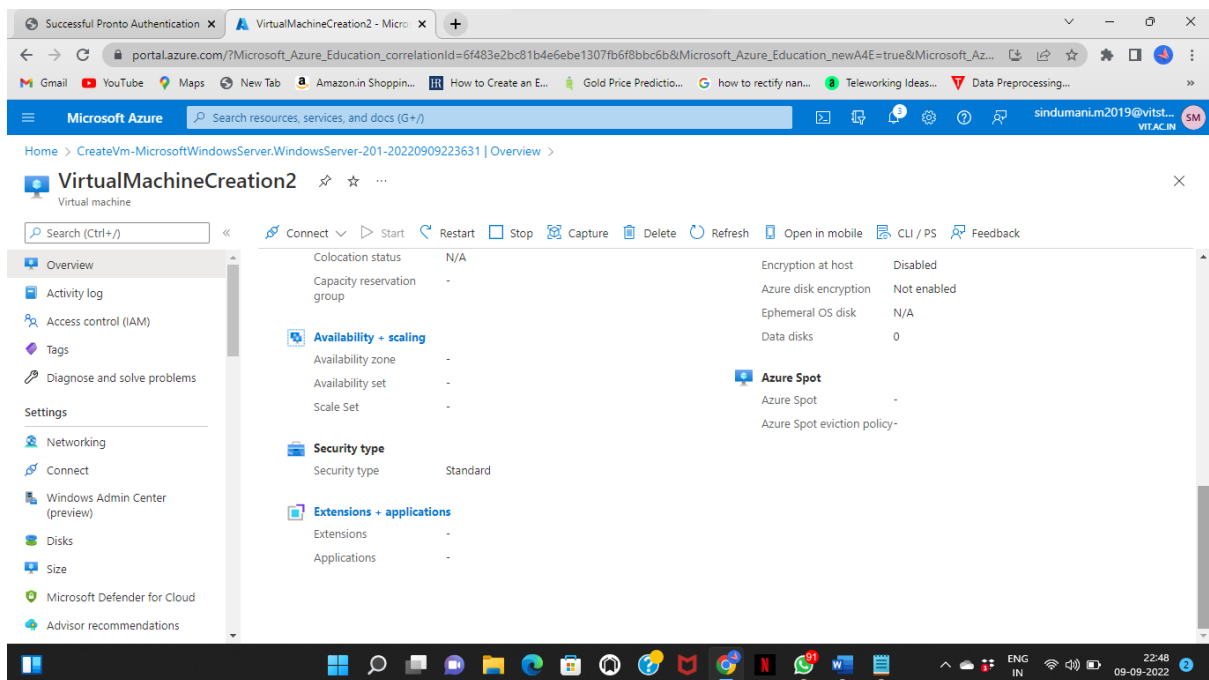
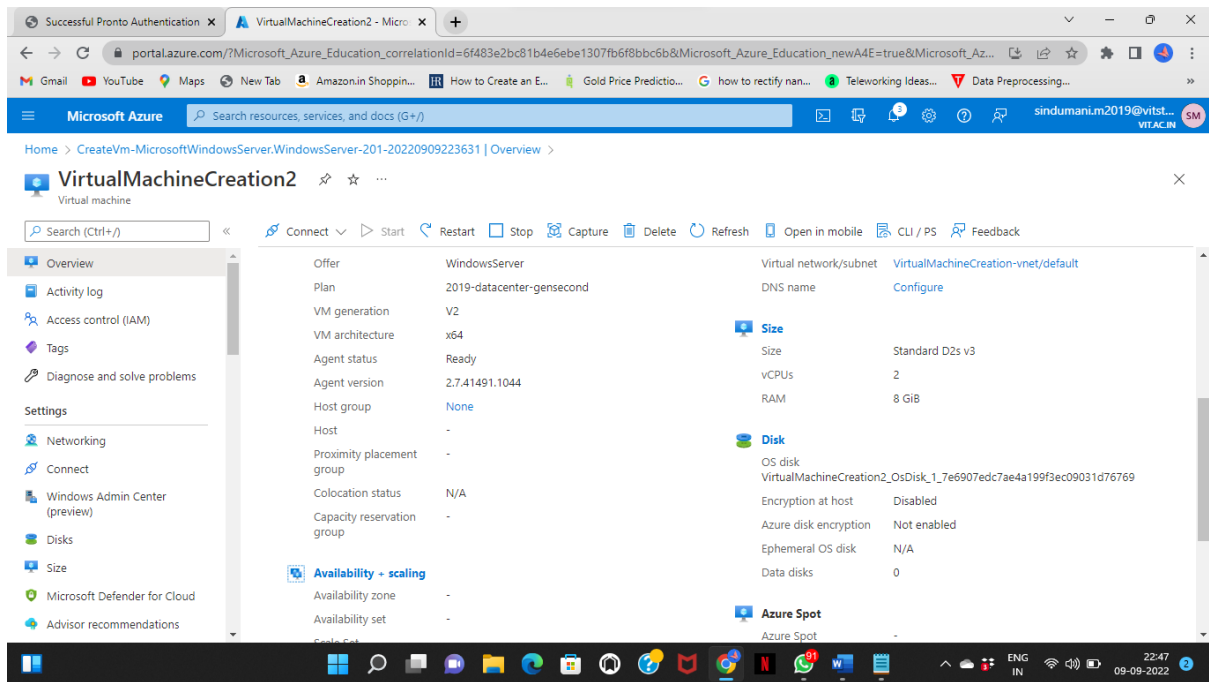
Virtual machine

Computer name : VirtualMachineC
Health state : -
Operating system : Windows (Windows Server 2019 Datacenter)
MicrosoftWindowsServer

Networking

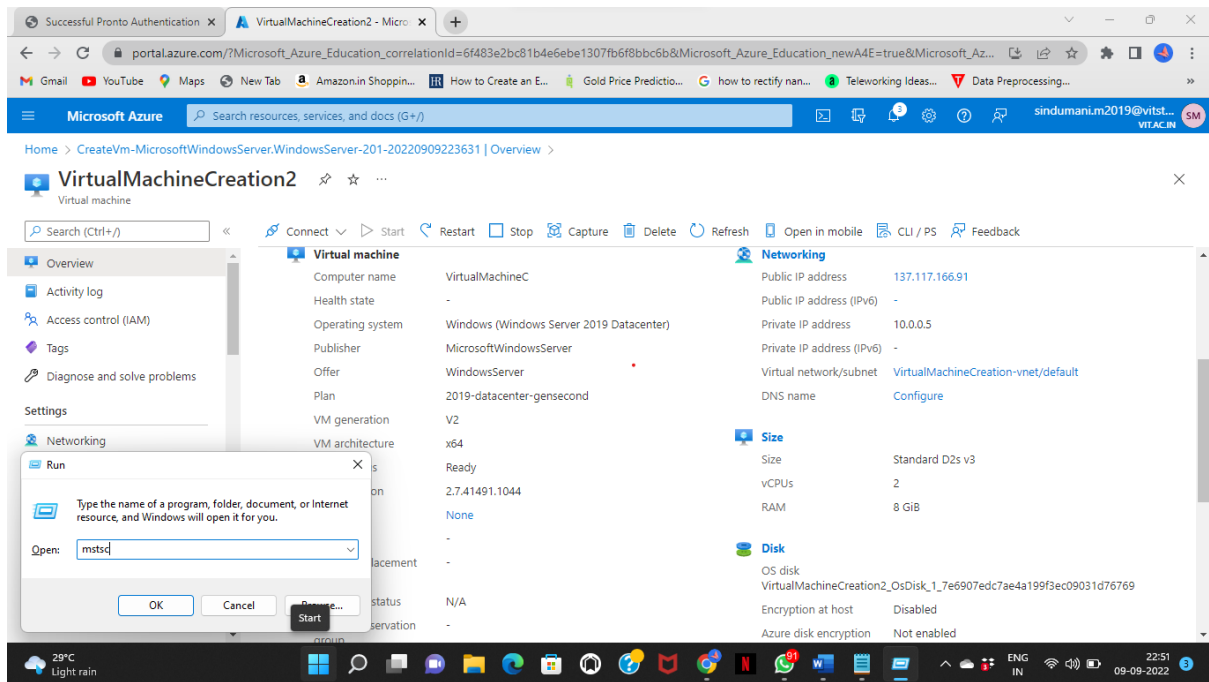
Public IP address : 137.117.166.91
Public IP address (IPv6) : -
Private IP address : 10.0.0.5
Private IP address (IPv6) : -
Virtual network/subnet : VirtualMachineCreation-vnet/default

22:47 09-09-2022

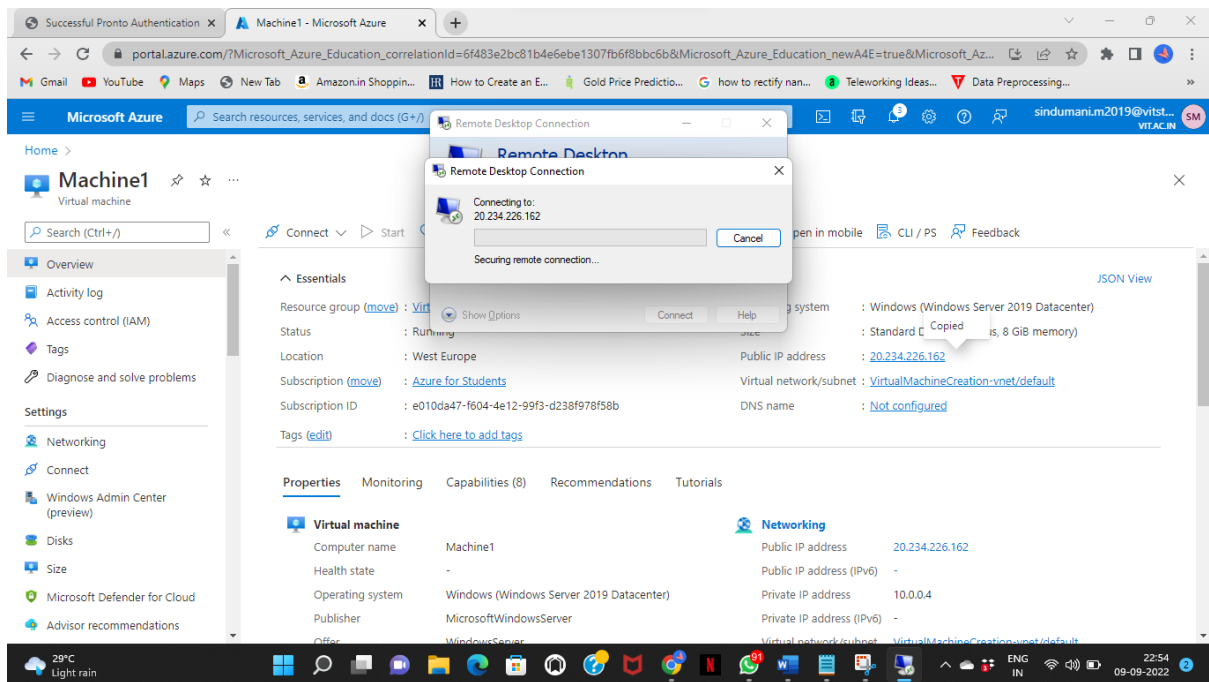


OPENING VIRTUAL MACHINE

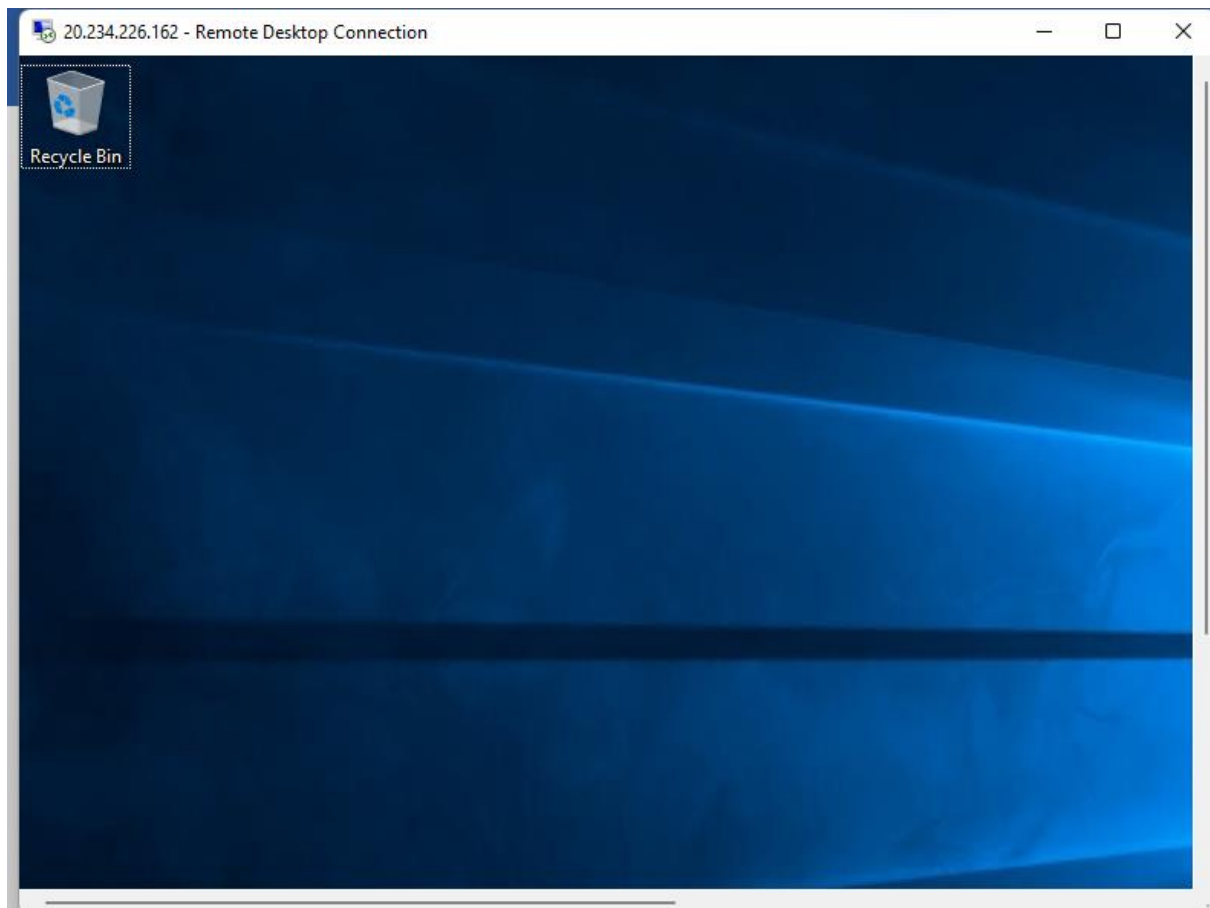
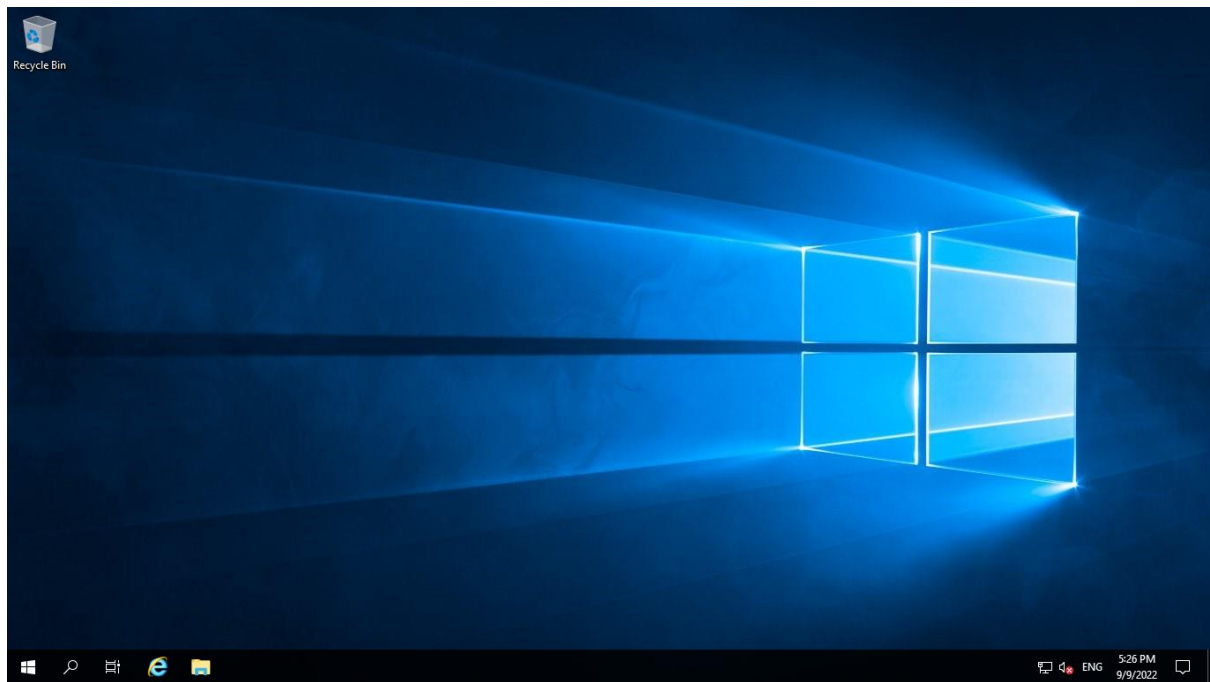
i) After creating the virtual machines, typing `mstsc` in the run window to install the virtual machine in our pc



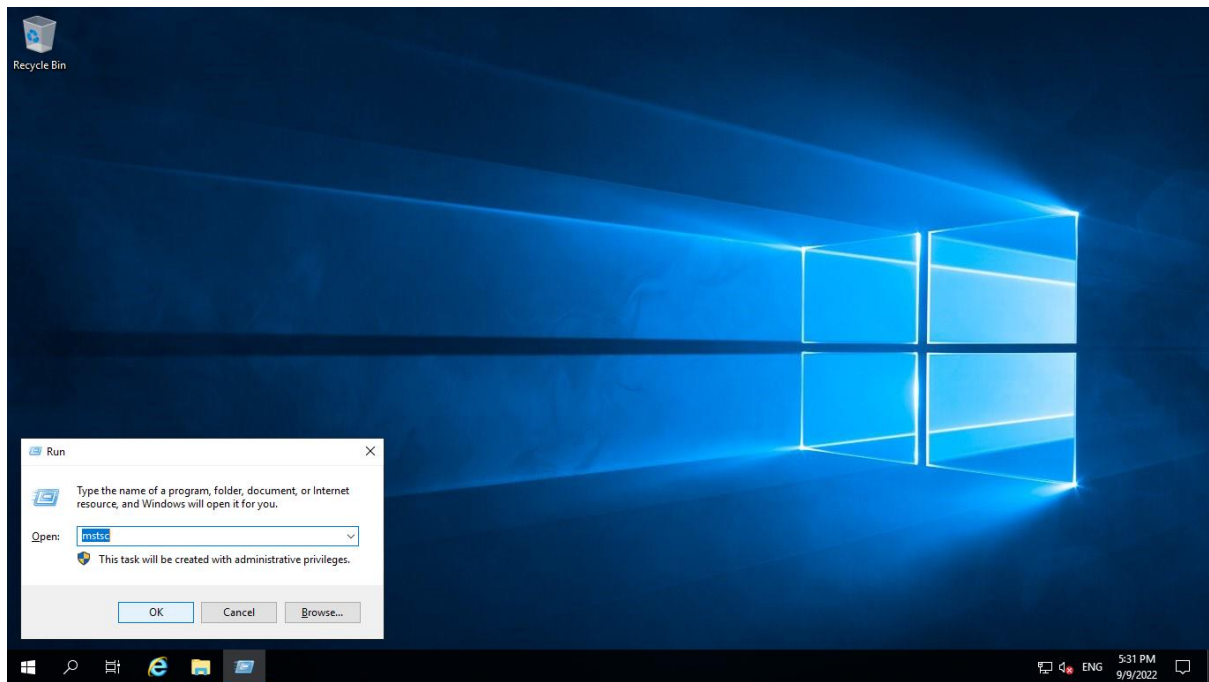
ii)Getting then IP address of the virtual machine 1 to connect



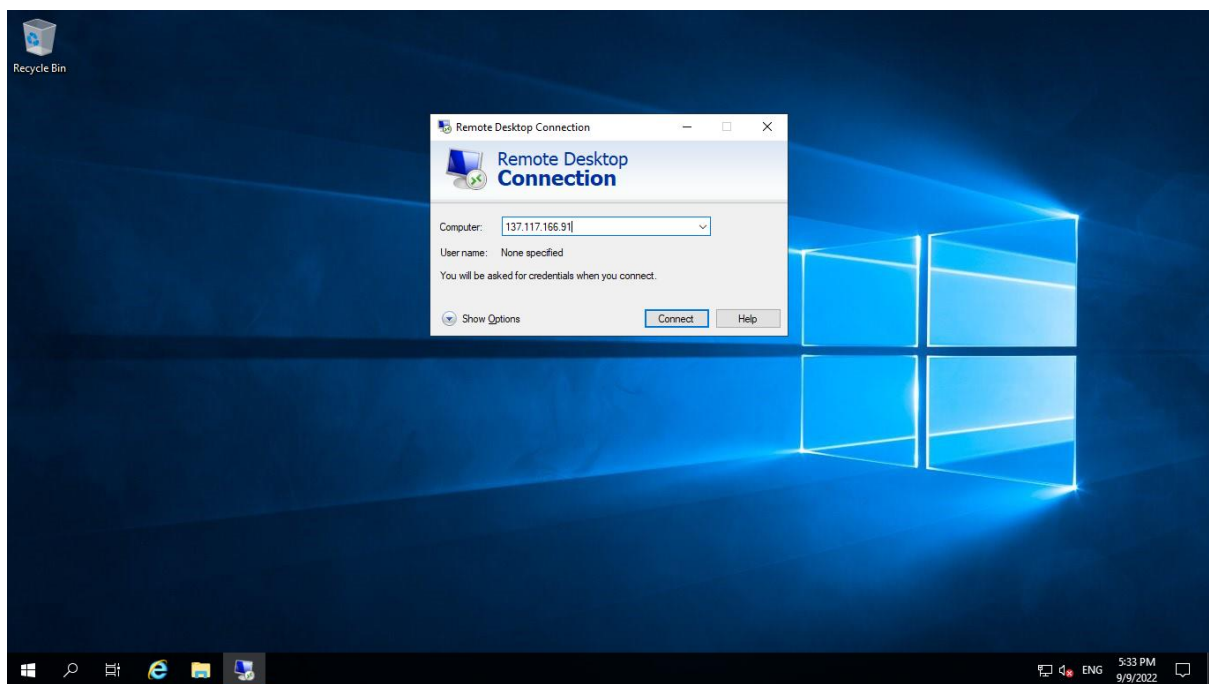
iii)Once connected,the virtual machine will be opened



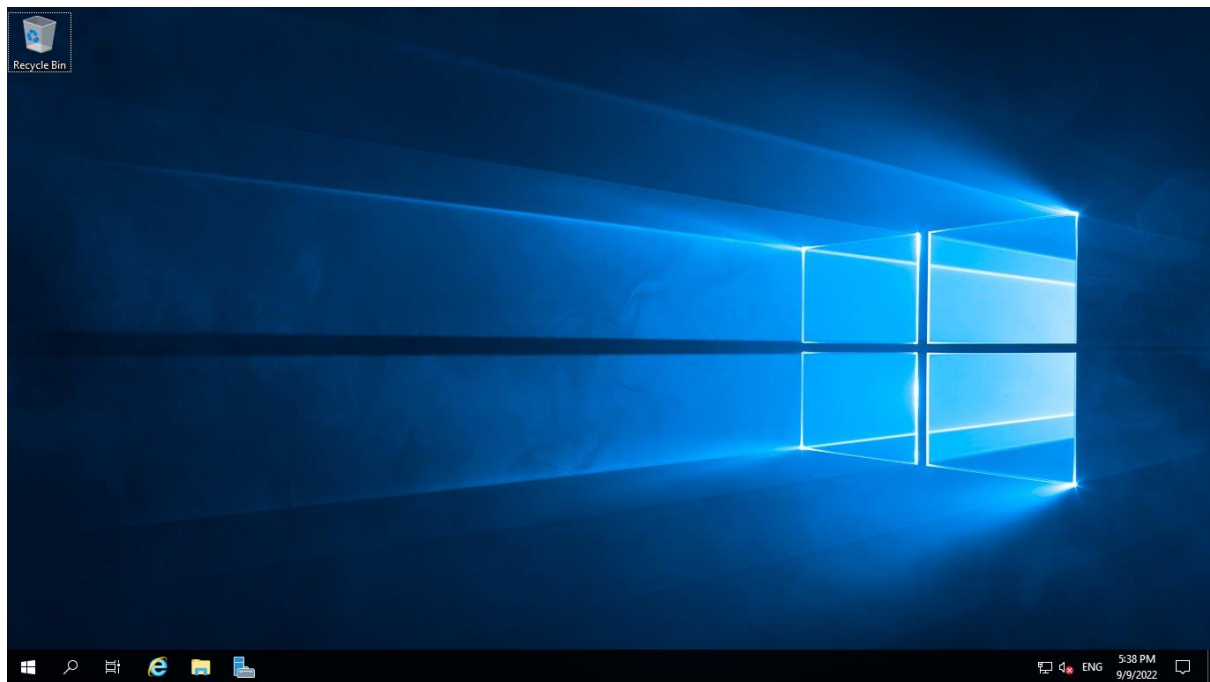
iv)Connecting the second virtual machine to the first virtual machine by typing mstsc in the run window of virtual machine1



v) Fetching the IP address of virtual machine2 to connect



vi) Once connected, virtualmachine2 is opened in virtual machine1



vii)Virtualmachine2 is opened

