

# Tutorial 8 B) Create Virtual Machine from Azure Portal | Do RDP Connection to it | (Subscription - Azure For Students\*)

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Course – MSc (DSBDA)

The screenshot shows the Microsoft Azure portal home page. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user's profile information (1132210013@mitwpue... MIT WORLD PEACE UNIVERSITY). Below the navigation bar, there are sections for 'Azure services' (Create a resource, Resource groups, All resources, Virtual machine scale sets, Virtual machines, Quickstart Center, App Services, Storage accounts, SQL databases, More services) and 'Resources' (Recent, Favorite). The 'Recent' tab is active, showing a table of recent resources:

Name	Type	Last Viewed
Ubuntu_group_08270050	Resource group	4 weeks ago
Windows_group_08261343	Resource group	4 weeks ago
Ubuntu_group	Resource group	4 weeks ago

Below the table, there is a 'See all' link. At the bottom, there is a 'Navigate' section with links to Subscriptions, Resource groups, All resources, and Dashboard.

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The wizard is titled 'Create a virtual machine' and has tabs for Basics, Disks, Networking, Management, Monitoring, Advanced, Tags, and Review + create. The 'Basics' tab is active. Below the tabs, there is a message: 'This subscription may not be eligible to deploy VMs of certain sizes in certain regions.' The 'Project details' section asks to select the subscription to manage deployed resources and costs. The 'Subscription' dropdown is set to 'Azure for Students' and the 'Resource group' dropdown is set to 'myResourceGroup'. The 'Instance details' section asks for the virtual machine name, which is set to 'Windows'. At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Disks >'. A 'Give feedback' link is also present.

Create a virtual machine - Micro

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

Microsoft Azure

Search resources, services, and docs (G+)

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MIT WORLD PEACE UNIVERSITY (...)

Home > Virtual machines >

Create a virtual machine

Subscription \*  
Azure for Students

Resource group \*  
myResourceGroup  
[Create new](#)

Instance details

Virtual machine name \*  
Windows

Region \*  
(US) West US 3

Availability options  
No infrastructure redundancy required

Security type  
Standard

Image \*  
Windows Server 2016 Datacenter - Gen2  
[See all images](#) | [Configure VM generation](#)

VM architecture  
☐ Arm64  
☒ x64  

Arm64 is not supported with the selected image.

Review + create

< Previous

Next : Disks >

Give feedback

Create a virtual machine - Micro

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

Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

Administrator account

Username \*  
suraj23

Password \*  
\*\*\*\*\*

Confirm password \*  
\*\*\*\*\*

Inbound port rules

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

Public inbound ports \*  
☐ None  
☒ Allow selected ports

Select inbound ports \*  
RDP (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.

Review + create

< Previous

Next : Disks >

Give feedback

Create a virtual machine - Micro

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Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

Disk options

OS disk type \* 

Premium SSD (locally-redundant storage)

Delete with VM ☒

Enable encryption at host ☐

Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#)

Encryption type \* 

(Default) Encryption at-rest with a platform-managed key

Enable Ultra Disk compatibility ☐  
Ultra disk is supported in Availability Zone(s) 1,2,3 for the selected VM size Standard\_B2s.

Review + create

< Previous

Next : Networking >

Give feedback

Create a virtual machine - Micro

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

Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + 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) myResourceGroup-vnet

Create new

Subnet \* 

(new) default (10.0.0.0/24)

Public IP 

(new) Windows-ip

Create new

NIC network security group 

None

Basic

Advanced

Review + create

< Previous

Next : Management >

Give feedback

Create a virtual machine - Micro

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

Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

Configure management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

✔ Your subscription is protected by Microsoft Defender for Cloud basic plan.

Identity

Enable system assigned managed identity [?](#)

☐

Azure AD

Login with Azure AD [?](#)

☐

Review + create

< Previous

Next: Monitoring >

[Give feedback](#)

Create a virtual machine - Micro

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

Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

Configure monitoring options for your VM.

Diagnostics

Boot diagnostics [?](#)

☒ Enable with managed storage account (recommended)

☐ Enable with custom storage account

☐ Disable

Enable OS guest diagnostics [?](#)

☐

Review + create

< Previous

Next: Advanced >

[Give feedback](#)

Create a virtual machine - Micro

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

Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

Extensions

Extensions provide post-deployment configuration and automation.

Extensions ⓘ [Select an extension to install](#)

VM applications

VM applications contain application files that are securely and reliably downloaded on your VM after deployment. In addition to the application files, an install and uninstall script are included in the application. You can easily add or remove applications on your VM after create. [Learn more](#)

[Select a VM application to install](#)

Custom data

Pass a script, configuration file, or other data into the virtual machine **while it is being provisioned**. The data will be saved on the VM in a known location. [Learn more about custom data for VMs](#)

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

[Give feedback](#)

Create a virtual machine - Micro

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

Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ⓘ	Value ⓘ	Resource
Window		12 selected
		12 selected

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

[Give feedback](#)

Create a virtual machine - Micro

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

Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

Validation passed

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + 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 B2s  
by Microsoft  
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply ⓘ  
**3.5734 INR/hr**  
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional

CreatePreviousNextDownload a template for automationGive feedback

CreateVm-MicrosoftWindowsSe

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/\_overview/id/%2Fsubscriptions%2F2b303cd0-fa66-4435-b262-5de964ad4ce4%2Fresource...

Microsoft Azure

Search resources, services, and docs (G+)

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Home >

CreateVm-MicrosoftWindowsServer.WindowsServer-201-20220921192036 | Overview

Deployment

SearchDeleteCancelRedeployDownloadRefresh

OverviewInputsOutputsTemplate

We'd love your feedback! →

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 9/21/2022, 7:26:38 PM  
Subscription: Azure for Students Correlation ID: 06a4ba32-96af-44de9-92d5-a88f  
Resource group: myResourceGroup

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 resourceCreate another VM

Deployment succeeded

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20220921192036' to resource group 'myResourceGroup' was successful.

Go to resourcePin to dashboard

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 >](#)

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Work with an expert

Windows - Microsoft Azure

portal.azure.com/#@mitwpu.edu.in/resource/subscriptions/2b303cd0-fa66-4435-b262-5de964ad4ce4/resourceGroups/myResourceGroup/providers/Microso...

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

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Home > Virtual machines > Windows

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 (preview)

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Essentials

Resource group (move) myResourceGroup

Status Running

Location West US 3

Subscription (move) Azure for Students

Subscription ID 2b303cd0-fa66-4435-b262-5de964ad4ce4

Tags (edit)

Window :

Operating system Windows (Windows Server 2016 Datacenter)

Size Standard B2s (2 vcpus, 4 GiB memory)

Public IP address 20.171.84.251

Virtual network/subnet myResourceGroup-vnet/default

DNS name Not configured

JSON View

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name Windows

Health state -

Networking

Public IP address 20.171.84.251

Public IP address (IPv6) -

Windows - Microsoft Azure

portal.azure.com/#@mitwpu.edu.in/resource/subscriptions/2b303cd0-fa66-4435-b262-5de964ad4ce4/resourceGroups/myResourceGroup/providers/Microso...

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

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Home > Virtual machines > Windows

Windows | Connect

Virtual machine

Search

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

Extensions + applications

To improve security, enable just-in-time access on this VM. →

RDP SSH Bastion

Connect with RDP

Suggested method for connecting

Azure has checked the status for the most common prerequisites when connecting using this method.

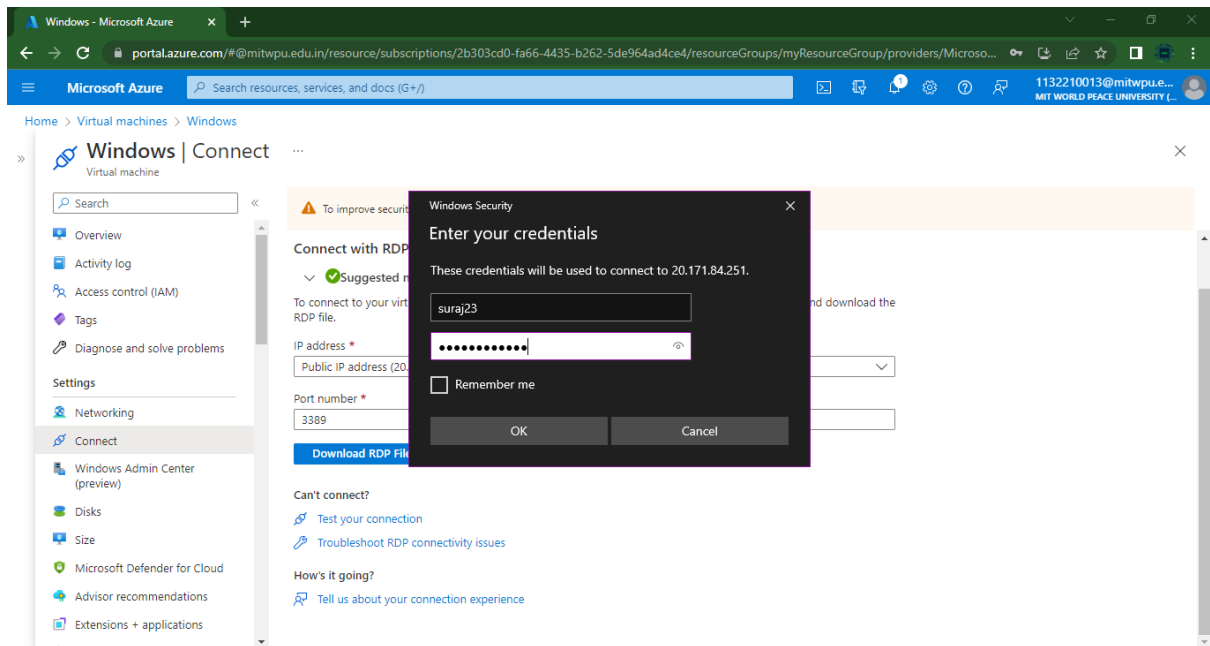
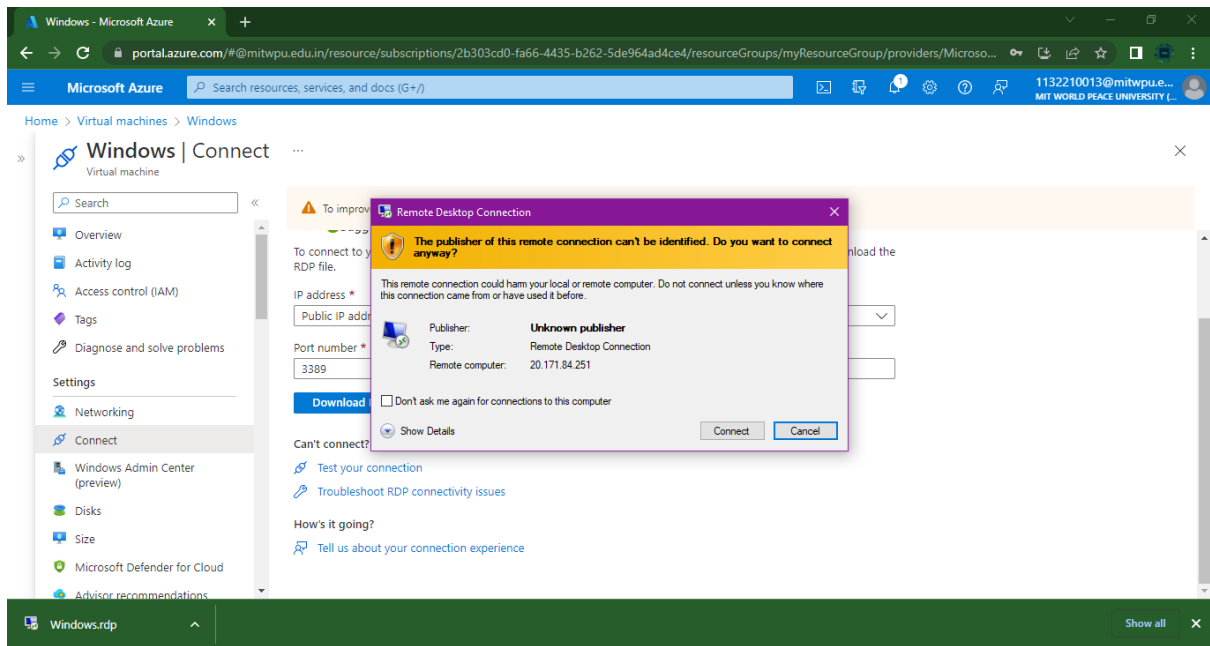
- Checking network security group for inbound access from your client's IP address. [Learn more](#)
- The VM's network interface has a Public IP address. [Learn more](#)
- The VM is running.

To connect to your virtual machine via RDP, select an IP address, optionally change the port number, and download the RDP file.

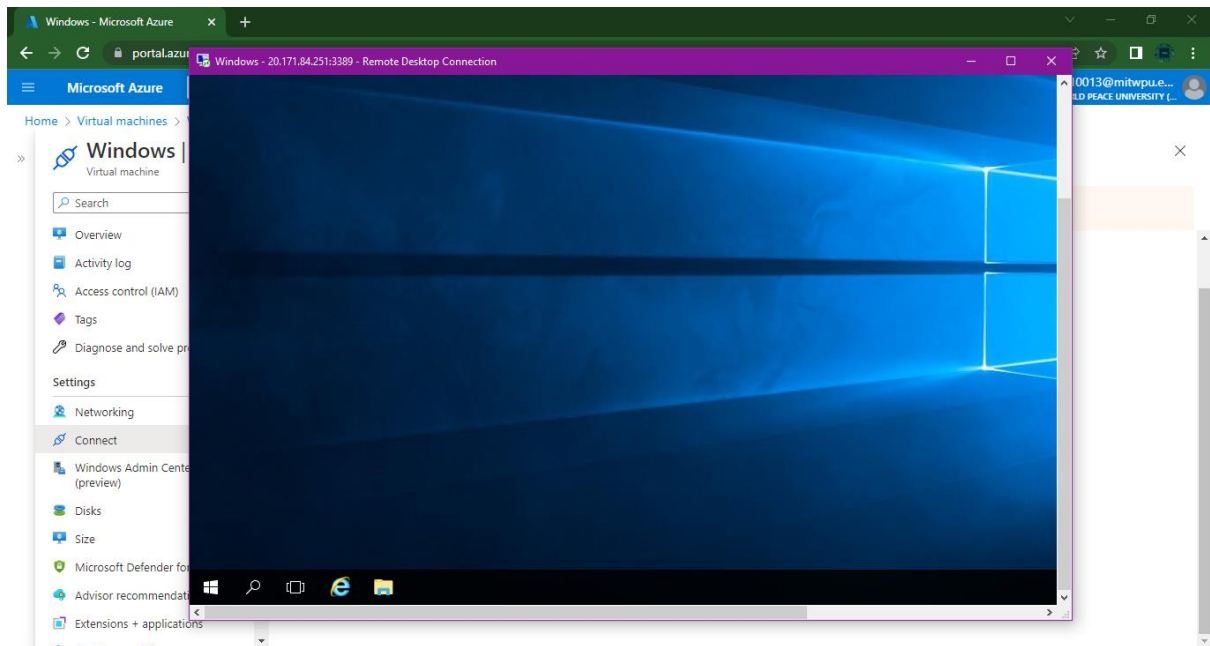
IP address \* Public IP address (20.171.84.251)

Port number \* 3389

Download RDP File







Microsoft Azure portal screenshot showing the 'All resources' page for the subscription 'MIT World Peace University (mitwpu.edu.in)'. The page displays a list of resources with filters and sorting options.

Filters: Subscription equals all, Resource group equals all, Type equals all, Location equals all. Add filter.

Summary: 0 Unsecure resources, 1 Recommendations.

Sorting: No grouping, List view.

Name	Type	Resource group	Location	Subscription
myLoadBalancer	Load balancer	myResourceGroup	East US	Azure for Students
myLoadBalancer3	Load balancer	myResourceGroup	East US	Azure for Students
myPublicIPAddress	Public IP address	myResourceGroup	East US	Azure for Students
myPublicIPAddress2	Public IP address	myResourceGroup	East US	Azure for Students
myResourceGroup-vnet	Virtual network	myResourceGroup	West US 3	Azure for Students
myVnet	Virtual network	myResourceGroup	East US	Azure for Students
NetworkWatcher_eastus	Network Watcher	NetworkWatcherRG	East US	Azure for Students
NetworkWatcher_westus3	Network Watcher	NetworkWatcherRG	West US 3	Azure for Students
Windows	Virtual machine	myResourceGroup	West US 3	Azure for Students

Showing 1 to 13 of 13 records. < Previous Page 1 of 1 Next > Give feedback

Delete Resources - Microsoft Az...

portal.azure.com/#view/HubsExtension/BrowseAll

Microsoft Azure

Search resources, services, and docs (G+)

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MIT WORLD PEACE UNIVERSITY (...)

Home >

All resources

MIT World Peace University (mitwpu.edu.in)

Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

Delete

Filter for any field...

Subscription equals all

Resource group equals all

Type equals all

Location equals all

0 Unsecure resources

1 Recommendations

Name	Type	Resource group	Location
myLoadBalancer	Load balancer	myResourceGroup	East U
myLoadBalancer3	Load balancer	myResourceGroup	East U
myPublicIpAddress	Public IP address	myResourceGroup	East U
myPublicIpAddress2	Public IP address	myResourceGroup	East U
myResourceGroup-vnet	Virtual network	myResourceGroup	West
myVnet	Virtual network	myResourceGroup	East U
NetworkWatcher_eastus	Network Watcher	NetworkWatcherRG	East U
NetworkWatcher_westus3	Network Watcher	NetworkWatcherRG	West
Windows	Virtual machine	myResourceGroup	West

< PreviousPage 1 of 1Next >Showing 1 to 13 of 13 records.

Delete Resources

Deleting 13 resources

Do you want to delete all the selected resources?

Warning! Deleting the selected resources is irreversible. This will permanently delete the selected resources, their related resources and contents. If you are not sure about the selected resource dependencies, please go to individual resource type blade to perform the delete operation. This action cannot be undone. Do you want to continue?

☐ Apply force delete for selected Virtual machines and Virtual machine scale sets

Confirm delete \*  
yes

Selected resources

myLoadBalancer (Load balancer)

myLoadBalancer3 (Load balancer)

myPublicIpAddress (Public IP address)

DeleteCancel