







Getting Started with Virtual Machines

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Interests

- Computer Networking
- Network Security
- Cloud Computing

- Internet of Things
- IT Infrastructure

Operations Management

Speaker Introduction

Organizational Leadership

Social

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Topics to be discussed

- Virtual machine and its benefits
- VM creation using Azure Portal
- Remote access to virtual machines
- Hosting web server on a virtual machine

Recommended Microsoft Learn Paths

- Introduction to Azure virtual machines
 - https://docs.microsoft.com/en-us/learn/modules/intro-to-azure-virtual-machines
- Create a Windows virtual machine in Azure
 - https://docs.microsoft.com/en-us/learn/modules/create-windows-virtual-machine-in-azure



Virtual machine and its benefits

Azure VMs are one of several types of on-demand, scalable computing resources that Azure offers.

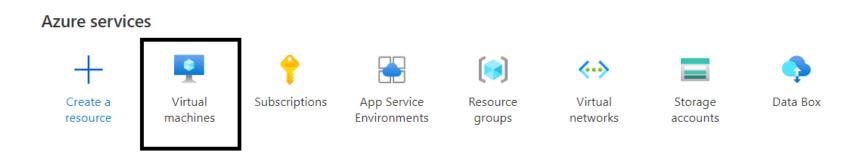
With VMs, you have total control over the configuration and can install anything you need to perform the work. You don't need to purchase physical hardware when you need to scale or extend your datacenter.

Finally, Azure provides additional services to monitor, secure, and manage updates and patches to the OS.

VM creation using Azure Portal



- 1. Sign into the Azure portal using your Azure for students account
- 2. Select Virtual machines in the top-left corner of the portal page



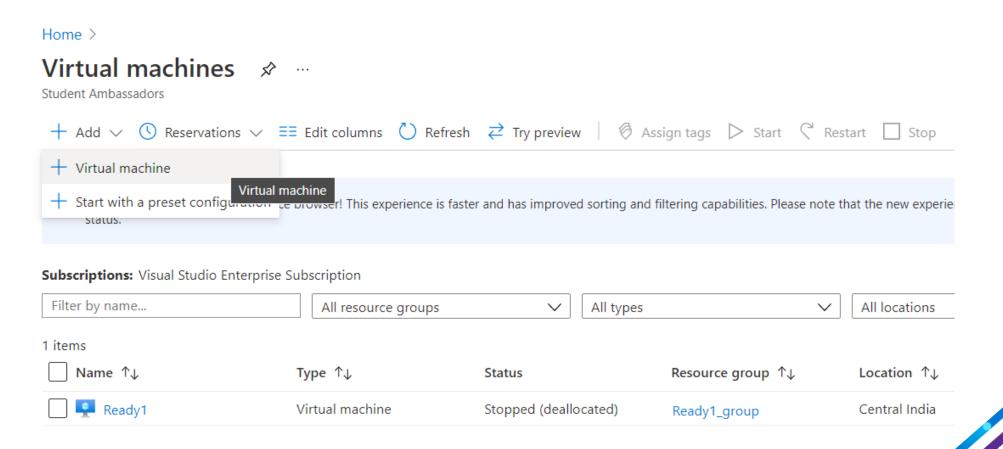
Recent resources

Name	Туре
Ready1	Virtual machine
Ready1_group	Resource group
(i) torrentFlix	Resource group
Visual Studio Enterprise Subscription	Subscription
NetworkWatcherRG	Resource group

VM creation using Azure Portal



- Click on +Add
- 4. Select +Virtual machine



VM creation using Azure Portal



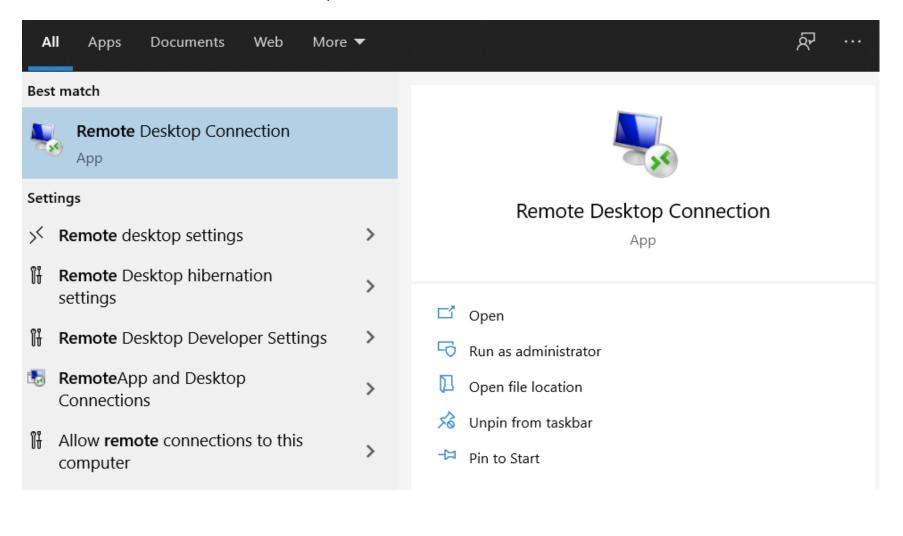
5. Configure according to need

Basics Disks Networking	Management Advanced Tags Review + create	
	nux or Windows. Select an image from Azure marketplace or use yourn n Review + create to provision a virtual machine with default paramete re 🗹	
Project details		
Select the subscription to manage d your resources.	eployed resources and costs. Use resource groups like folders to orga	nize and manage all
Subscription * ①	Visual Studio Enterprise Subscription	~
Resource group * ①	(New) Resource group	~
	Create new	
Instance details		
Instance details Virtual machine name * ①		
	(Asia Pacific) Central India	
Virtual machine name * ①	(Asia Pacific) Central India No infrastructure redundancy required	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Remote access to virtual machines



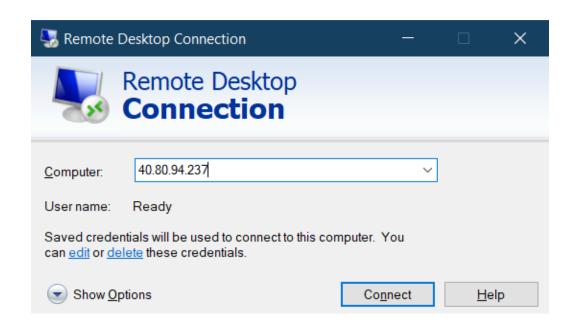
Search for "Remote Desktop Connection"



Remote access to virtual machines



- Insert IP Address of VM
- 3. Provide Username and Password for your VM
- 4. Ignore any warnings



Hosting web server on a virtual machine



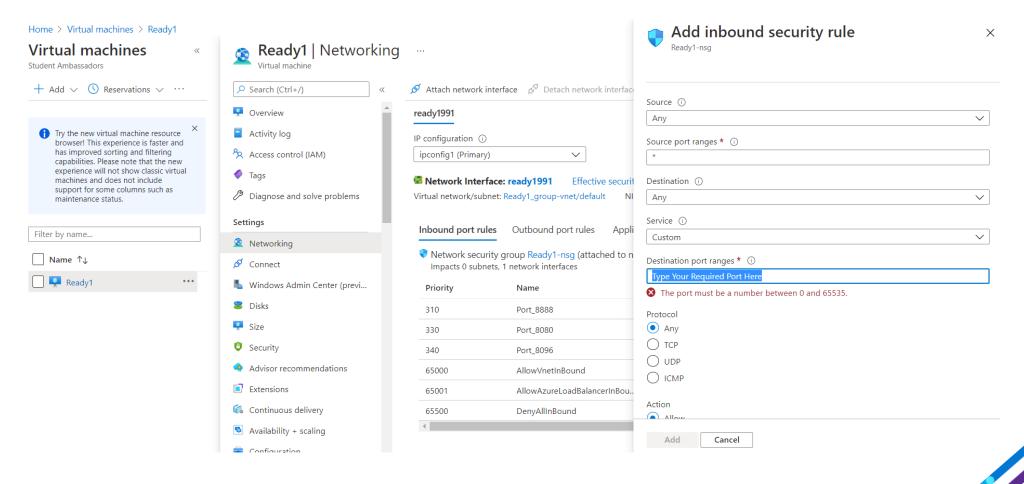
Disable Windows Firewall

stem and Security > Windows Defender Firewall > Customize Settings	*	Ö	Search Control Pa
Customize settings for each type of network			
You can modify the firewall settings for each type of network that you use.			
Private network settings			
Turn on Windows Defender Firewall			
Block all incoming connections, including those in the list of allowed apps			
✓ Notify me when Windows Defender Firewall blocks a new app			
 Turn off Windows Defender Firewall (not recommended) 			
Public network settings			
Turn on Windows Defender Firewall			
Block all incoming connections, including those in the list of allowed apps			
✓ Notify me when Windows Defender Firewall blocks a new app			
Turn off Windows Defender Firewall (not recommended)			

Hosting web server on a virtual machine



Open destination port from "Networking" settings of your VM



Hosting web server on a virtual machine



- Select and open preferred application
- Configure network configuration
- Test for usage
- Troubleshoot (if required)





Thank you all :'D



