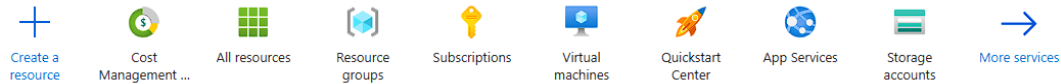


AZURE LAB 4 (Data Disk)

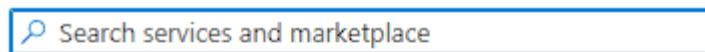
In this lab you will learn, how to add a data disk into your Windows Virtual Machine.

1. Log in your Azure Portal. For this lab you will need to create a Windows virtual machine.
2. For that click on create a resource.

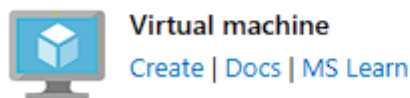
Azure services



3. On the resource page select virtual machine.



Popular Azure services [See more in All services](#)



4. Select your subscription (if any), then select your resource group (If you have a resource group) or create a new resource group.

Project details


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

Subscription * ⓘ

Resource group * ⓘ [Create new](#)

5. Give your virtual machine a name, then select region, select availability option and security type same as shown below.
6. For image select Windows Server as shown below. (You might know this image from Lab 1)

Instance details

Virtual machine name *	WindowsVm ✓
Region *	(Asia Pacific) Central India ✓
Availability options ⓘ	No infrastructure redundancy required ✓
Security type ⓘ	Standard ✓
Image *	 Windows Server 2022 Datacenter - x64 Gen2 (free services eligible) ✓ See all images Configure VM generation

7. This time you need to select Standard_D2s_v3 for the size because B1s might not be compatible for this lab.

Size *	Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹11,294.05/month) ✓ See all sizes
--------	---

8. Give username and password, so that you can log in to your virtual machine.

Administrator account

Username *	demour ✓
Password * ✓
Confirm password * ✓

9. Now on the disks page you can see you get a default Premium SSD for the Virtual machine and initially you can create and attach a new disk from here too.
10. Add a data disk is a two-way process, first you need to create a disk then you need to attach that disk to your server.
11. Thus, you are going to attach that new disk to your window's virtual server.

Basics **Disks** Networking Management Monitoring Advanced Tags Review + 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](#)

VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host

☐

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

OS disk

OS disk size

Image default (127 GiB)

OS disk type *

Premium SSD (locally-redundant storage)

Delete with VM

☒

Key management

Platform-managed key

Enable Ultra Disk compatibility

☐

Data disks for WindowsVm



You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	Name	Size (GiB)	Disk type	Host caching	Delete with VM
-----	------	------------	-----------	--------------	----------------

[Create and attach a new disk](#) [Attach an existing disk](#)

- Now just head towards to the review and create page. There you need to create your server.
- Once the deployment is complete, go to resource page.

✓ Your deployment is complete

 Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 12/22/2023, 1:29:16 PM
Subscription: [Free Trial](#) Correlation ID: ed559ca7-6852-44c2-9ea0-cf440406f6a7 
Resource group: [WindowsVm_group](#)

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](#)

- Click on download RDP file.

 Refresh  Troubleshoot  More Options  Feedback



Connecting using

Public IP address | 20.219.10.95



Admin username : demouser

Port ([change](#)) : 3389 [Check access](#) 

Just-in-time policy : Unsupported by plan 

Most common



Local machine

Native RDP

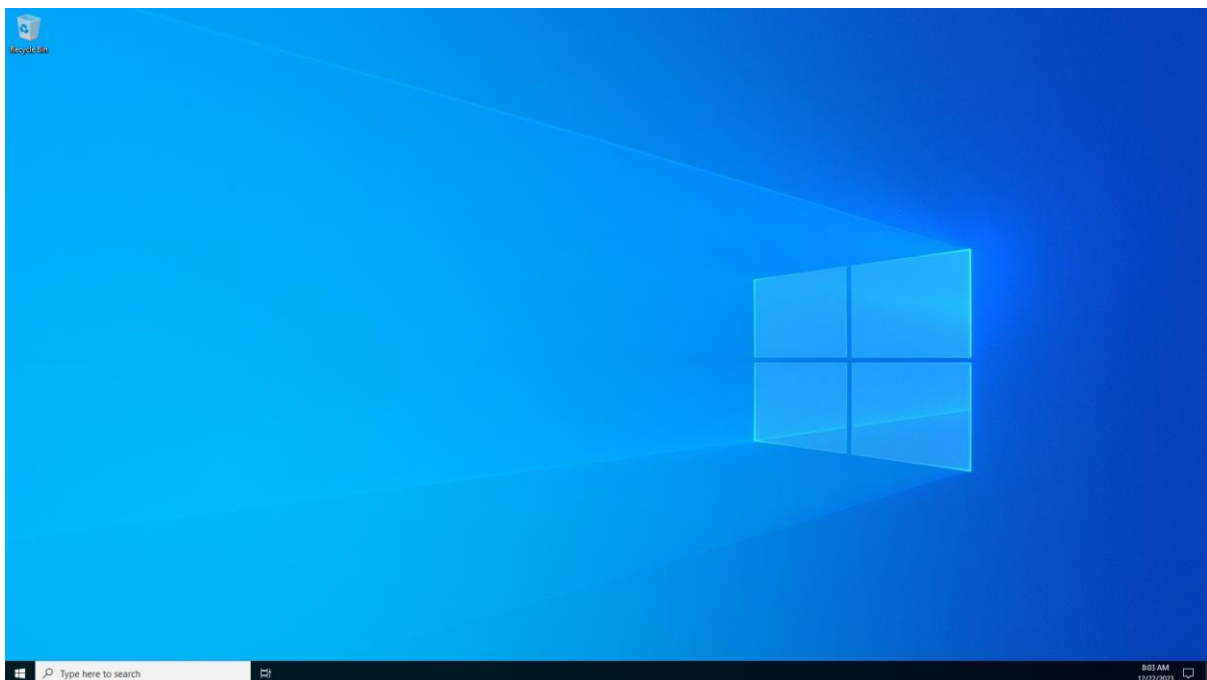
Connect via native RDP without any additional software needed. Recommended for testing only.

Public IP address (20.219.10.95)

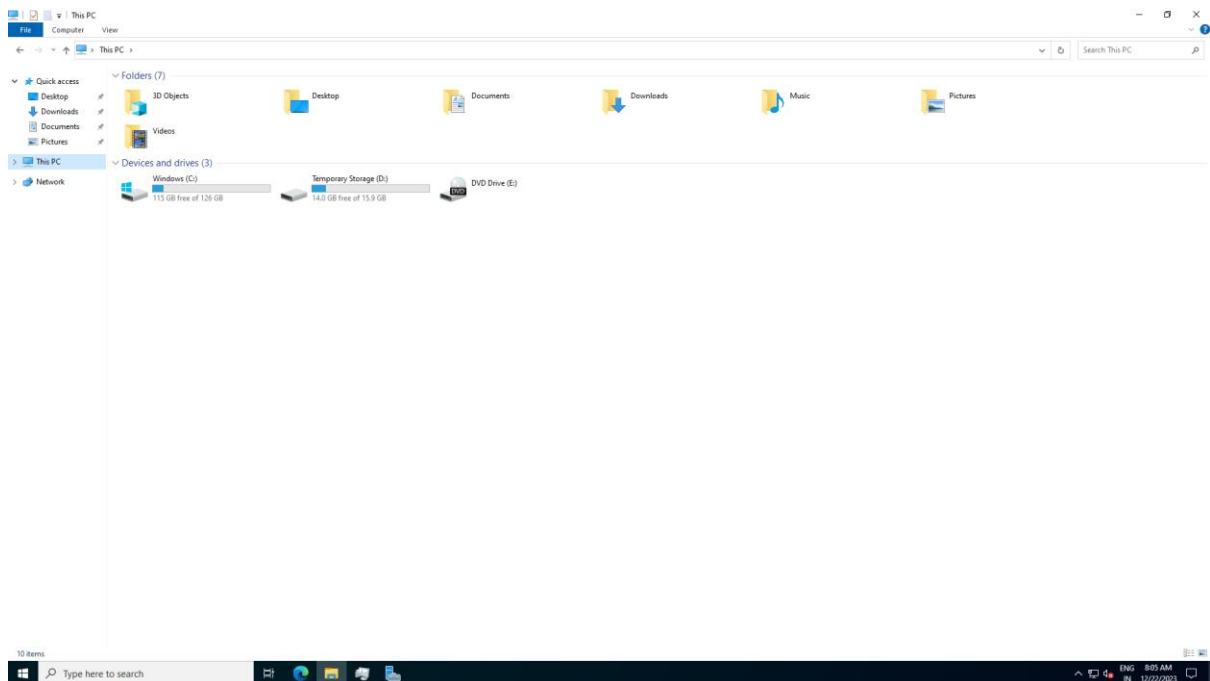
Select

Download RDP file

15. After downloading RDP file open it and log in to your windows virtual machine.



16. Once you are in your machine, go to file explorer. Here you can see you have 2 disks. First is where your windows server is installed, second is temporary disk.



17. Now you are going to add a new disk to your windows server.
18. For that you need to come back to Azure Portal, here you will see an option for settings, in settings click on Disks.

Settings

- Disks
- Extensions + applications
- Configuration
- Advisor recommendations
- Properties
- Locks

19. Here you can see, you have your default disk, and you can create plus attach that disk to your virtual machine.
20. Now click on create and attach a new disk.

Refresh | Additional settings | Feedback | Troubleshoot

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (MB/s)	Encryption	Host caching
WindowsVm_OsDisk_1_b89a17a8ef0846e4b3cbd538ed44a9c	Premium SSD LRS	127	500	100	SSE with PMK	Read/write

Data disks

Filter by name

Showing 0 of 0 attached data disks

+ Create and attach a new disk | Attach existing disks

LUN	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (MB/s)	Encryption	Host caching
No data disks attached							

21. Give your disk a name, select a size of your choice.

22. Then click on Apply. Wait for some time.

23. Once it is created you can see the message of creation in notification tab.

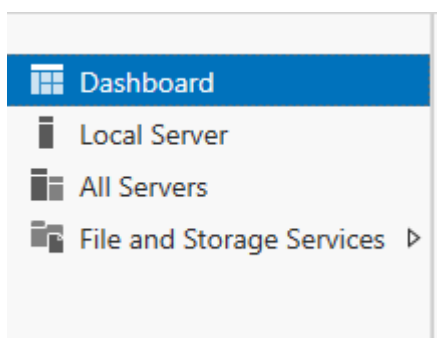
Notifications ×

[More events in the activity log →](#) [Dismiss all](#) ✓

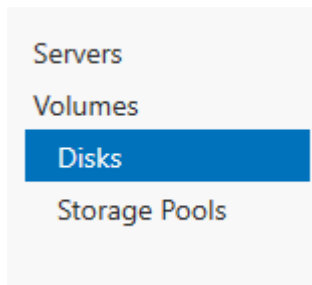
✓ **Updated virtual machine** ×
Successfully updated virtual machine 'WindowsVm'.
a few seconds ago

✓ **Successfully created disk** ×
Successfully created disk 'datadisk1'.
a few seconds ago

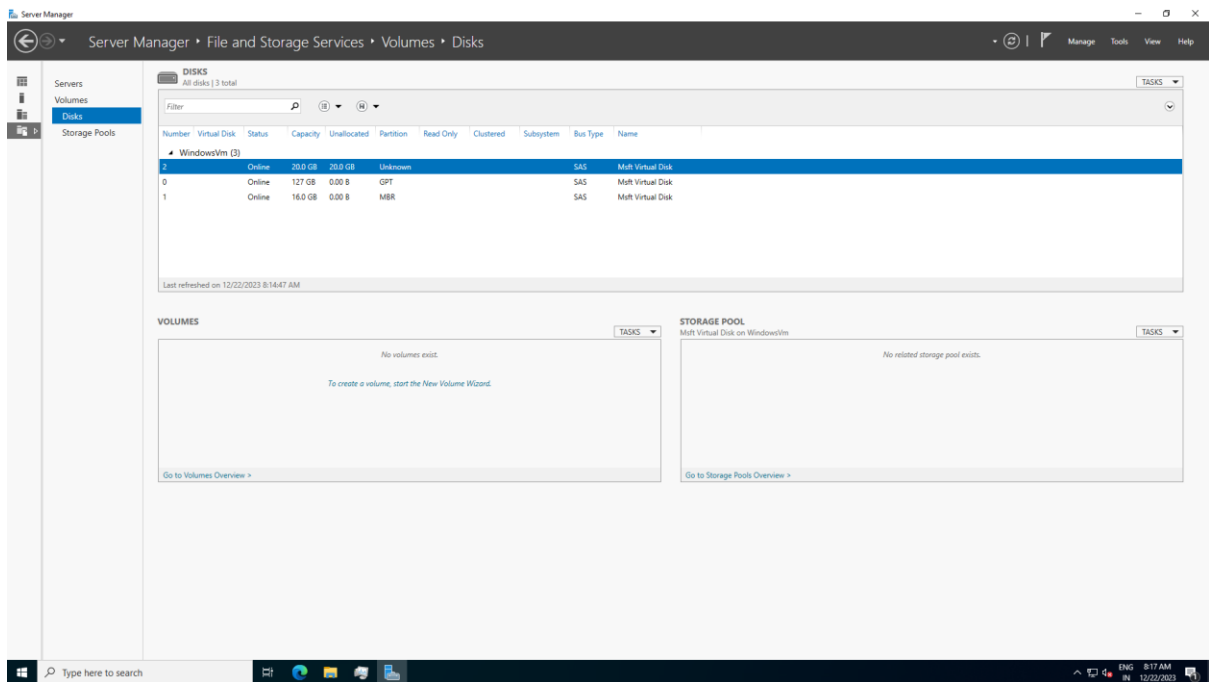
24. Now you need to go back to your Windows virtual machine. In the server manager dashboard click on File and Storage Services.



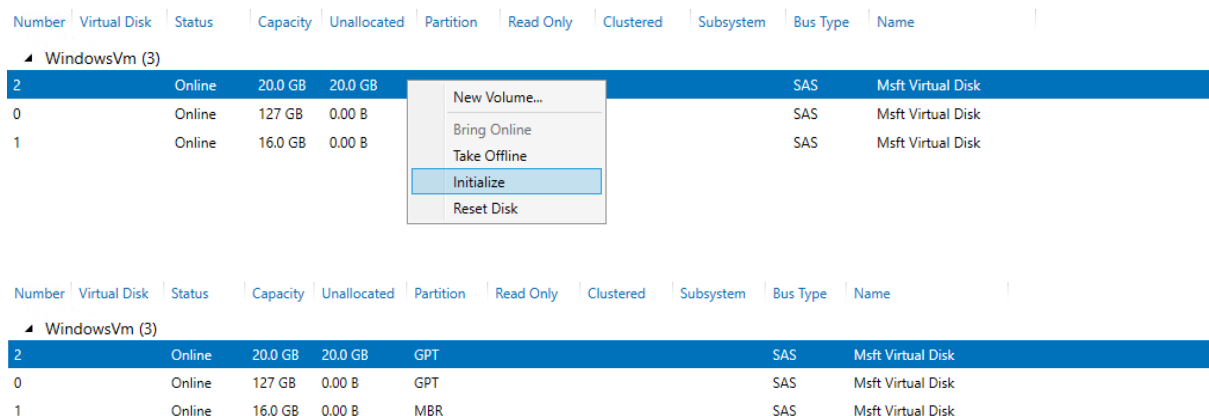
25. There you need to click on disks.



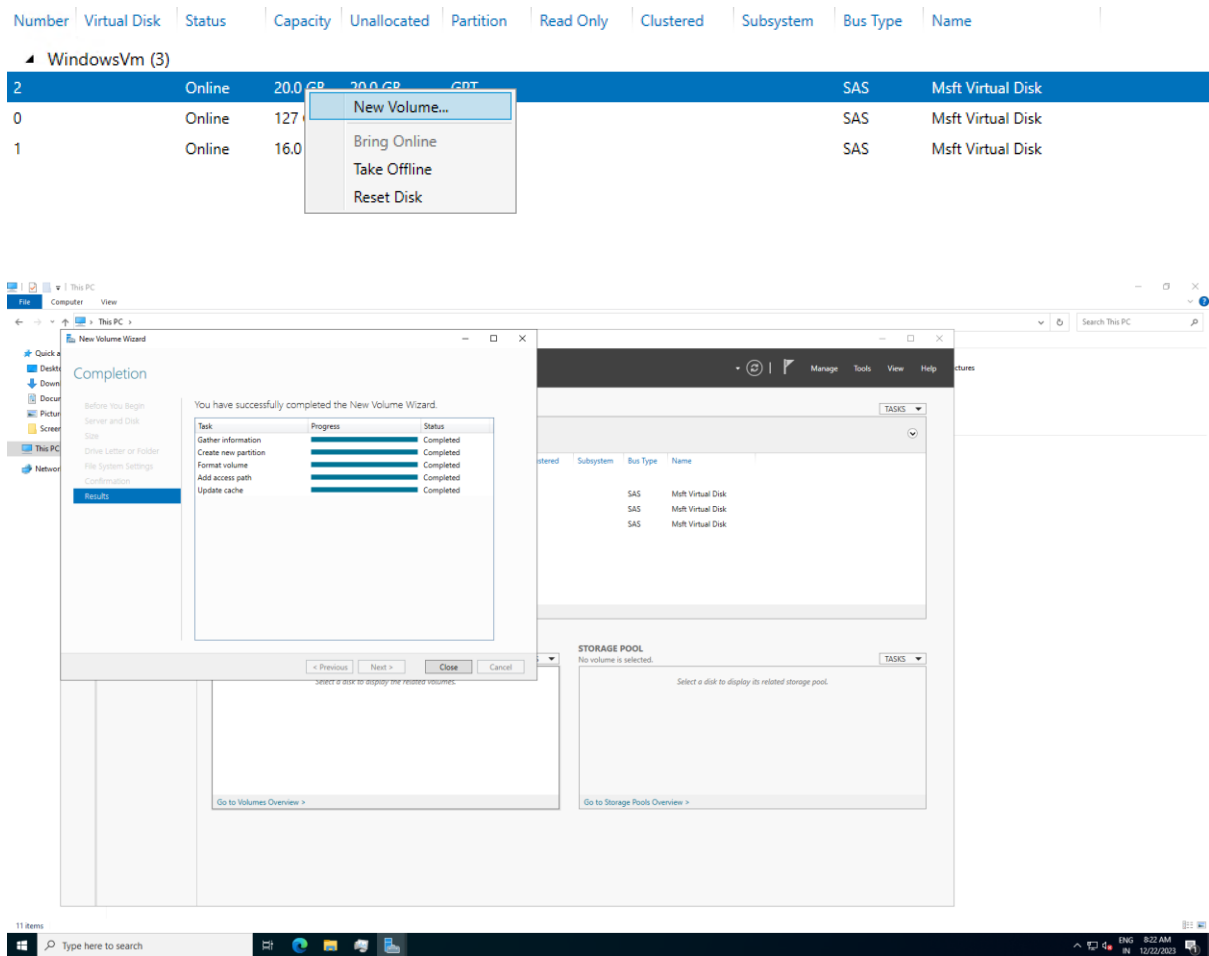
26. And in the disks, you can see your disk of 20GB which you just created.



27. So, to use it you need to first initialize it. For that select it and then right click on it. Then click on initialize.



28. Once it is initialized, again right click on it. Click on New Volume, and create a new volume like you've created on your systems.



29. Now if you go to your file explorer, you can see a new disk of 20GB ready for use.

