

Module 2: Assignment - 1

Azure 104 Certification Course



Tasks To Be Performed:

1. Create 2 resource groups rg-1 and rg-2
2. Add storage account to rg-1
3. Move storage account from rg-1 to rg-2

Creating rg-1

The screenshot shows the 'Create a resource group' page in the Azure portal. The breadcrumb navigation is 'Home > Resource groups >'. The page title is 'Create a resource group'. There are three tabs: 'Basics' (selected), 'Tags', and 'Review + create'. A descriptive paragraph explains that a resource group is a container for related resources. Below this, the 'Project details' section contains two dropdown menus: 'Subscription' (set to 'Free Trial') and 'Resource group' (set to 'rg-1', which is highlighted with a yellow box). The 'Resource details' section contains one dropdown menu: 'Region' (set to '(US) East US').

Creating 2nd Resource Group rg-2

This screenshot is identical to the previous one, but for the second resource group. The 'Resource group' dropdown menu is now set to 'rg-2', which is highlighted with a yellow box. All other elements, including the breadcrumb navigation, tabs, description, and other dropdowns, remain the same.

Home > Resource groups >

Create a resource group

✓ Validation passed.

Basics Tags **Review + create**

Basics

Subscription	Free Trial
Resource group	rg-2
Region	East US

Tags

None

Created

Home >

Resource groups

Default Directory (shahsalmarfarsi@gmail.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

You are viewing a new version of Browse experience. Some features may be missing. [Click here to access the old experience.](#)

Filter for any field... Subscription equals all Location equals all Add filter

<input type="checkbox"/>	Name 1	Subscription	Location
<input type="checkbox"/>	rg-1	Free Trial	East US
<input type="checkbox"/>	rg-2	Free Trial	East US

Creating Storage Account in rg-1

Home > Storage accounts >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription * Free Trial

Resource group * rg-1 [Create new](#)

Instance details

Storage account name * movestorageac21

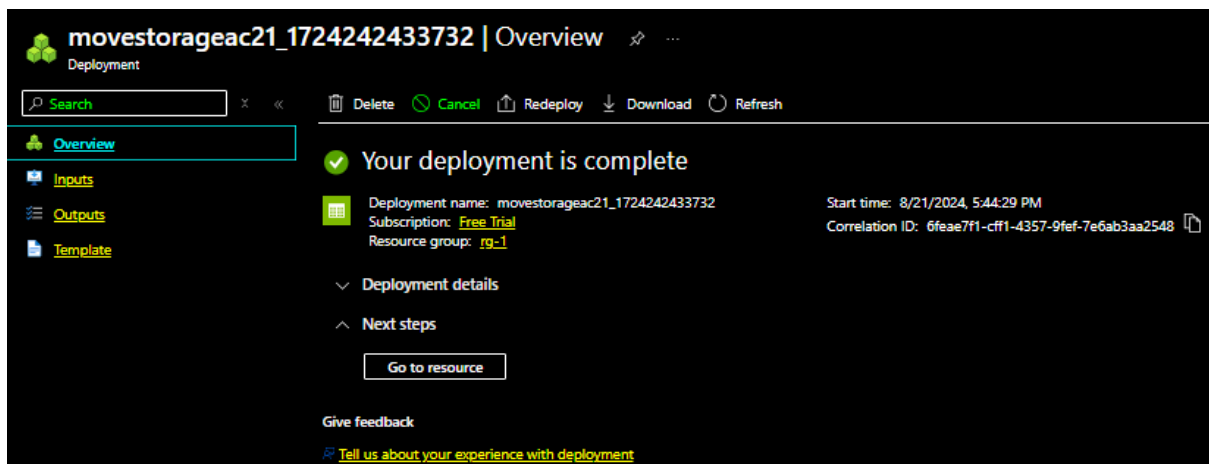
Region * (US) East US [Deploy to an Azure Extended Zone](#)

Performance * Standard: Recommended for most scenarios (general-purpose v2 account)

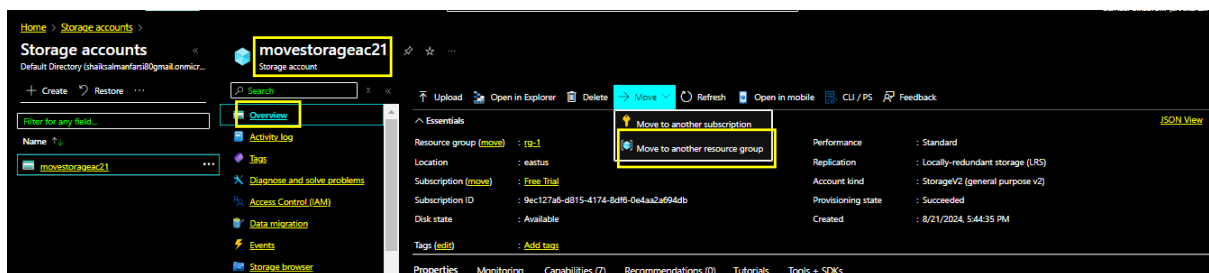
Premium: Recommended for scenarios that require low latency.

Redundancy * Locally-redundant storage (LRS)

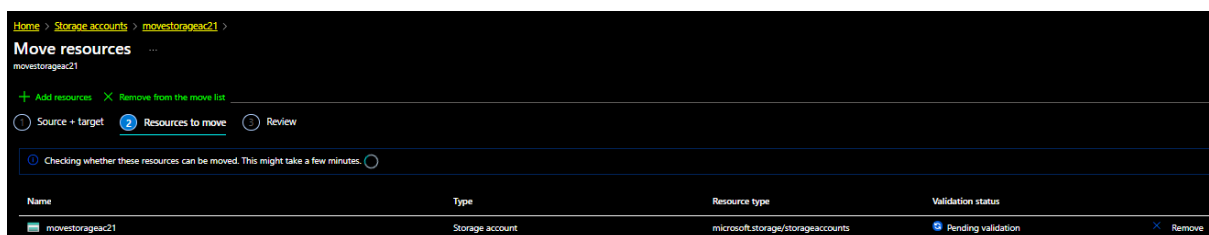
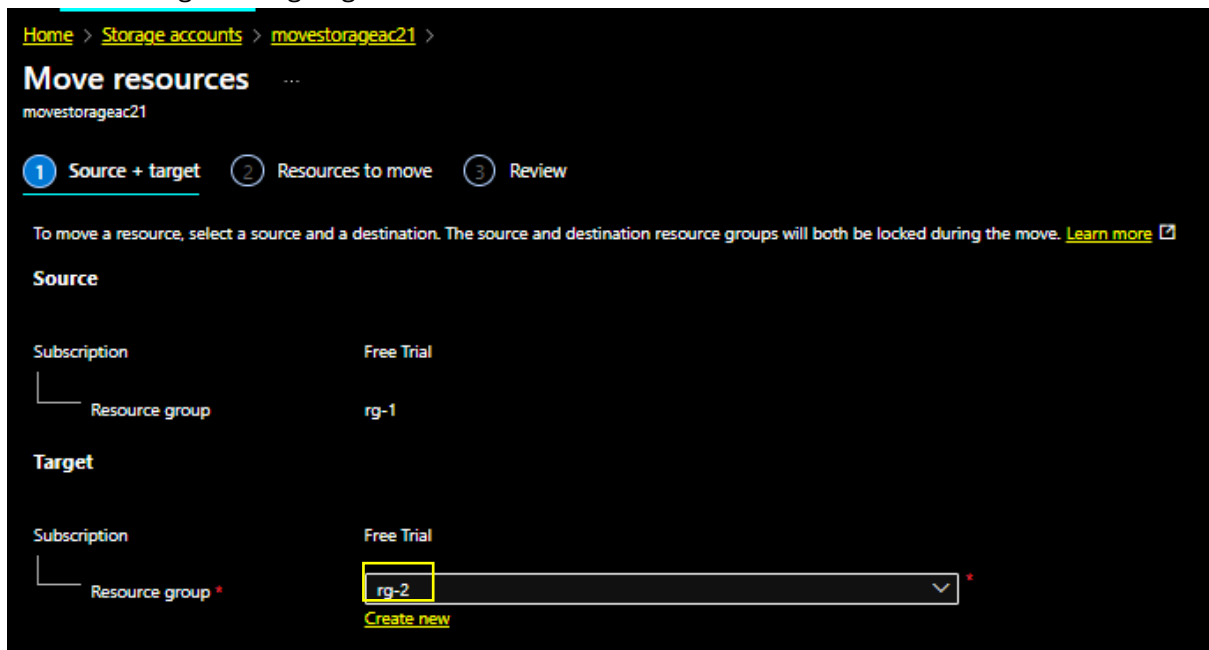
Previous Next Review + create



Now it will Moving to rg-2



Source from rg-1 to target rg-2



Home > Storage accounts > movestorageac21 >

Move resources

movestorageac21

+ Add resources X Remove from the move list

1 Source + target 2 Resources to move 3 Review

Name	Type	Resource type	Validation status	
movestorageac21	Storage account	microsoft.storage/storageaccounts	Succeeded	Remove

Review and Move.

Home > Storage accounts > movestorageac21 >

Move resources

movestorageac21

1 Source + target 2 Resources to move 3 Review

Selection summary

Source subscription	Free Trial
Source resource group	rg-1
Target subscription	Free Trial
Target resource group	rg-2
Number of resources to move	1

☒ I understand that tools and scripts associated with moved resources will not work until I update them to use new resource IDs

Previous Move

Now its not found in rg-1

Home > Storage accounts >

Storage accounts

Default Directory (shaikcalmanfars8@gmail.onmicr...)

+ Create Restore ...

Filter for any field...

Name ↑

movestorageac21

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Not found

Get support Perform self-diagnostics

Its successfully moved to rg-2, hence assignment completed

Home >

Storage accounts

Default Directory (shaikcalmanfars8@gmail.onmicrosoft.com)

+ Create Restore Manage view Refresh Export to CSV Open query Assign tags Delete

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Showing 1 to 1 of 1 records.

Name	Type	Kind	Resource group	Location	Subscription
movestorageac21	Storage account	StorageV2	rg-2	East US	Free Trial

Module 2: Assignment - 2

Azure 104 Certification Course



Tasks To Be Performed:

1. Create 3 storage accounts with "Team" tags: team1, team2 and team3 respectively
2. Create one more storage account for team2
3. List all resources for team2 using tags

Creating 1st Storage account

[Home](#) > [Storage accounts](#) >

Create a storage account

Basics | Advanced | Networking | Data protection | Encryption | Tags | Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *

Resource group *
[Create new](#)

Instance details

Storage account name *

Region *
[Deploy to an Azure Extended Zone](#)

Performance * ☒ Standard: Recommended for most scenarios (general-purpose v2 account)
☐ Premium: Recommended for scenarios that require low latency.

Redundancy *

[Previous](#) [Next](#) [Review + create](#)

Make sure on Tags, While Creating

Home > Storage accounts >

Create a storage account

Basics Advanced Networking Data protection Encryption **Tags** Review + create

Name	Value	Resource
Team	:	team1
	:	

Home >

firststorageaccount021_1724244754041 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: firststorageaccount021_1724244754041
Subscription: [Free Trial](#)
Resource group: [Module2](#)

Start time: 8/21/2024, 6:22:52 PM
Correlation ID: b354e5c9-45fc-445e-b603-b19d0dab486c

Deployment details

Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

2nd Storage Account

Home > Storage accounts >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription * Free Trial

Resource group * Module2
[Create new](#)

Instance details

Storage account name * ① secondstorageaccount021

Region * ① (US) East US
[Deploy to an Azure Extended Zone](#)

Performance * ①

☒ Standard: Recommended for most scenarios (general-purpose v2 account)

☐ Premium: Recommended for scenarios that require low latency.

Redundancy * ① Locally-redundant storage (LRS)

[Previous](#) [Next](#) [Review + create](#)

Tags

[Home](#) > [Storage accounts](#) >

Create a storage account

Basics Advanced Networking Data protection Encryption **Tags** Review + create

Name	Value	Resource
Team	team2	All resources selected
		All resources selected

[Home](#) >

secondstorageaccount021_1724244858666 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

✓ Your deployment is complete

Deployment name: secondstorageaccount021_1724244858666 Start time: 8/21/2024, 6:24:49 PM
Subscription: Free Trial Correlation ID: cb680432-b6e9-4e41-a15b-29984a51eba0
Resource group: Module2

Deployment details

Next steps

Go to resource

Give feedback

[Tell us about your experience with deployment](#)

3rd Storage Account

[Home](#) > [Storage accounts](#) >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription * Free Trial

Resource group * Module2 [Create new](#)

Instance details

Storage account name * thirdstorageaccount021

Region * (US) East US [Deploy to an Azure Extended Zone](#)

Performance * Standard: Recommended for most scenarios (general-purpose v2 account)
Premium: Recommended for scenarios that require low latency.

Redundancy * Locally-redundant storage (LRS)

Previous Next Review + create

Tag

[Home](#) > [Storage accounts](#) >

Create a storage account

Basics Advanced Networking Data protection Encryption **Tags** Review + create

Name	Value	Resource
Team	team3	All resources selected
		All resources selected

4th Storage Account

[Home](#) > [Storage accounts](#) >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags **Review + create**

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *

Resource group * [Create new](#)

Instance details

Storage account name *

Region * [Deploy to an Azure Extended Zone](#)

Performance * ☒ Standard: Recommended for most scenarios (general-purpose v2 account)
☐ Premium: Recommended for scenarios that require low latency.

Redundancy *

[Previous](#) [Next](#) [Review + create](#)

Here tag is team2

Home > Storage accounts >

Create a storage account

Basics

Advanced

Networking

Data protection

Encryption

Tags

Review + create

Name	Value	Resource
Team	:	team2
	:	

Home >

fourthstorageaccount021_1724245102230 | Overview

Deployment

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: fourthstorageaccount021_1724245102230

Subscription: [Free Trial](#)

Resource group: [Module2](#)

Start time: 8/21/2024, 6:28:35 PM

Correlation ID: cdd60168-fafa-4642-b7d4-49e178f968aa

Deployment details

Next steps

Go to resource

Give feedback

[Tell us about your experience with deployment](#)

Successfully created 4 storage accounts

Home >

Storage accounts

Default Directory (shahsalmans80@gmail.onmicrosoft.com)

Create

Restore

Manage view

Refresh

Export to CSV

Open query

Assign tags

Delete

Filter for any field...

Subscription equals all

Resource group equals all

Location equals all

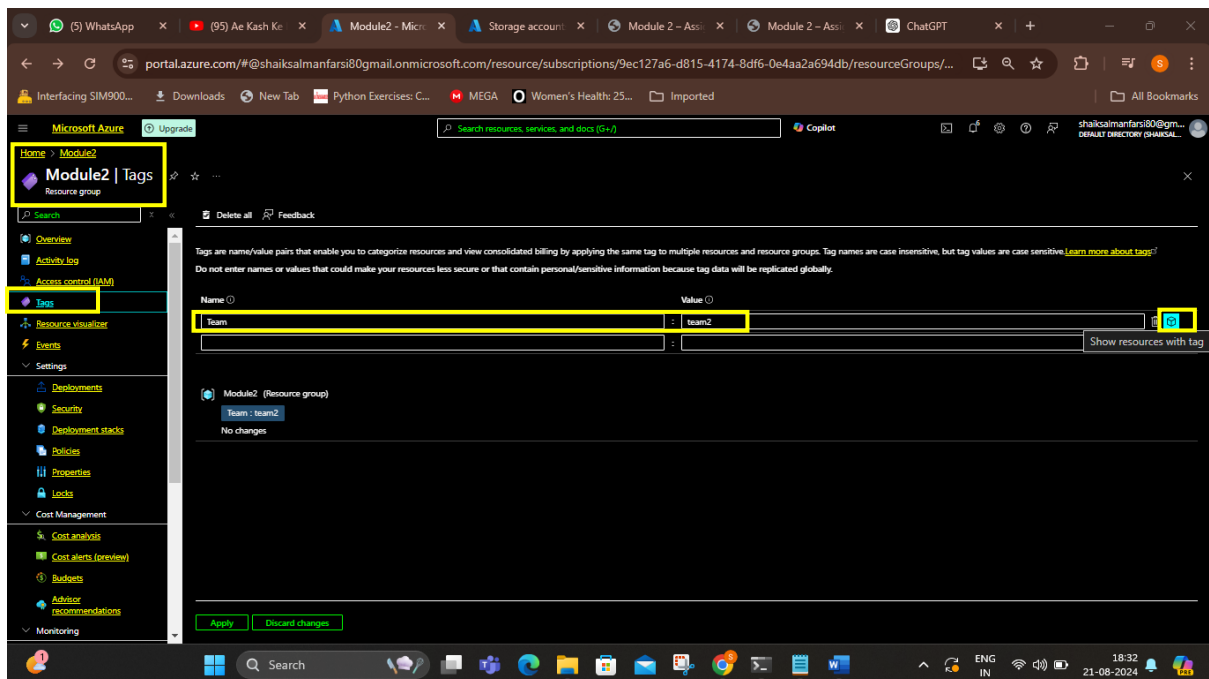
Add filter

Showing 1 to 4 of 4 records.

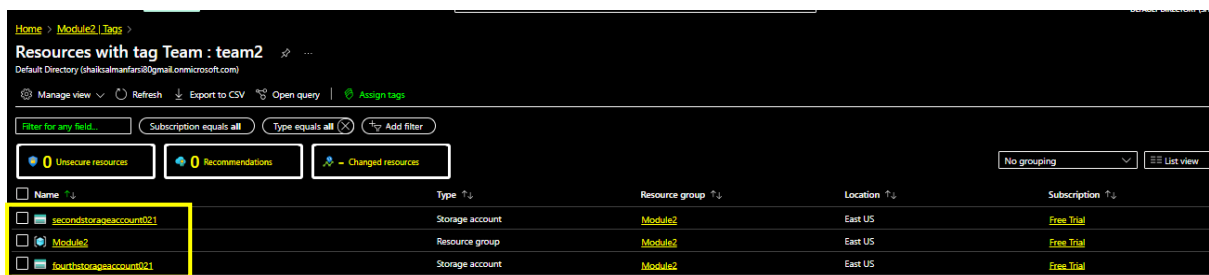
No grouping

Name	Type	Kind	Resource group	Location	Subscription
firststorageaccount021	Storage account	StorageV2	Module2	East US	Free Trial
fourthstorageaccount021	Storage account	StorageV2	Module2	East US	Free Trial
secondstorageaccount021	Storage account	StorageV2	Module2	East US	Free Trial
thirdstorageaccount021	Storage account	StorageV2	Module2	East US	Free Trial

Go to Resources Group(Module2) was named by me > Tags > Team : team2 and Click on show resources with tag



It will show only team2 resource



Module 2: Assignment - 3

Azure 104 Certification Course



Tasks To Be Performed:

1. Create a file share in Azure Storage
2. Mount this file share on Windows and Linux

First I will Create ubuntu machine(Linux)

[Home](#) > [Virtual machines](#) >

Create a virtual machine

[Help me create a low cost VM](#) [Help me create a VM optimized for high availability](#) [Help me choose the right VM size for my workload](#)

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

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

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](#)

Instance details

Virtual machine name *

Region *

Availability options

Security type

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

[Home](#) > [Virtual machines](#) >

Create a virtual machine

[Help me create a low cost VM](#) [Help me create a VM optimized for high availability](#) [Help me choose the right VM size for my workload](#)

Image * [See all images](#) | [Configure VM generation](#)

☒ This image is compatible with additional security features. [Click here to swap to the Trusted launch security type.](#)

VM architecture ☐ Arm64 ☒ x64

Run with Azure Spot discount ☐

You are in the free trial period. Costs associated with this VM can be covered by any remaining credits on your subscription. [Learn more](#)

Size * [See all sizes](#)

Enable Hibernation ☐

Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernation to enable this feature. [Learn more](#)

Administrator account

☐ Local administrator account ☐ SSH public key

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

Administrator account

Authentication type ⓘ

☐ SSH public key

☒ Password

Username * ⓘ

Salman ✓

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 *

SSH (22) ✓

ⓘ

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

< Previous

Next : Disks >

Review + create

Home >

CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20240821202828 | Overview ⓘ ...

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j...

Subscription: [Free Trial](#)

Resource group: [Module2](#)

Start time: 8/21/2024, 8:32:13 PM

Correlation ID: 47690580-ebe3-4865-951f-4785b8d6a09e ⓘ

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](#)

Go to VM > Networking Settings, And Allow 445 port

Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20240821202828 | Overview > LinuxVM

LinuxVM | Network settings

Private IP address : 10.0.0.4 Accelerated networking : On

Admin security rules : 0 (Configure) Effective security rules : 0

Rules Collapse all

Network security group **LinuxVM-nsg** (attached to networkinterface: **linuxvm189**)
Impacts 0 subnets, 1 network interfaces

Search rules Source == all Destination == all Protocol == all Action == all

Priority	Name	Port	Protocol
Inbound port rules (4)			
300	SSH	22	TCP
65000	AllowVnetInBound	Any	Any
65001	AllowAzureLoadBalancerInBound	Any	Any
65500	DenyAllInBound	Any	Any
Outbound port rules (3)			

Add inbound security rule

Source Any

Source port ranges *

Destination Any

Service Custom

Destination port ranges * 445

Protocol TCP

Action Allow

Priority 310

Add Cancel

Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20240821202828 | Overview > LinuxVM

LinuxVM | Network settings

Virtual network / subnet : LinuxVM-nsg / default

Public IP address : 52.175.207.7

Private IP address : 10.0.0.4

Admin security rules : 0 (Configure)

Application security groups : 0 (Configure)

Network security group : LinuxVM-nsg

Accelerated networking : Disabled

Effective security rules : 0

Rules Collapse all

Network security group **LinuxVM-nsg** (attached to networkinterface: **linuxvm189**)
Impacts 0 subnets, 1 network interfaces

Search rules Source == all Destination == all Protocol == all Action == all

Priority	Name	Port	Protocol	Source	Destination	Action
Inbound port rules (5)						
300	SSH	22	TCP	Any	Any	Allow
310	AllowAnyCustom445Inbound	445	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	Any	Any	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	Any	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny
Outbound port rules (3)						

Create port rule

Need to Create Storage Account to Create File Share

Home > Storage accounts >

Create a storage account

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription * Free Trial

Resource group * Module2

Create new

Instance details

Storage account name * storageaccountforfileshare

Region * (Asia Pacific) East Asia

Deploy to an Azure Extended Zone

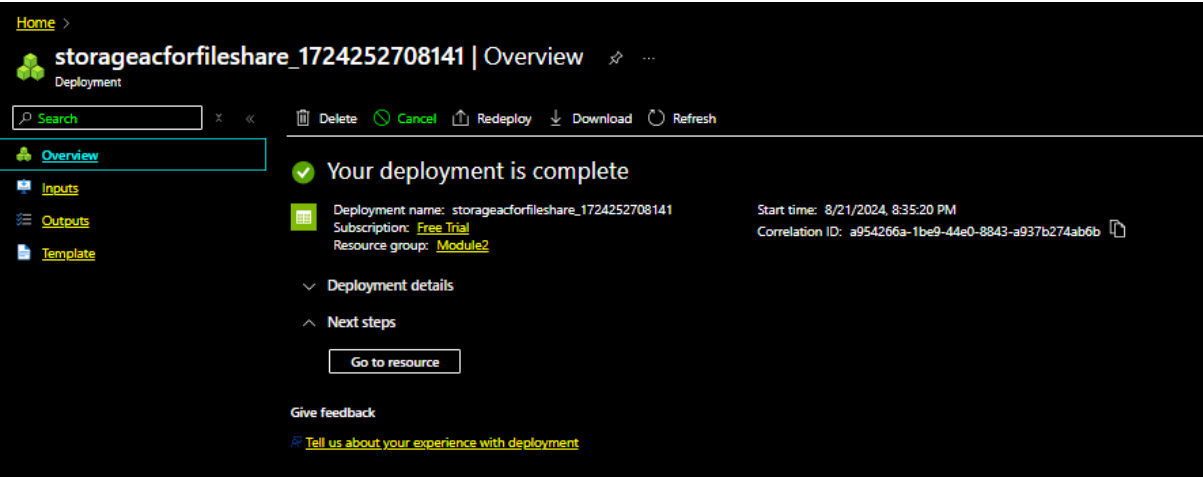
Performance * Standard: Recommended for most scenarios (general-purpose v2 account)

Premium: Recommended for scenarios that require low latency.

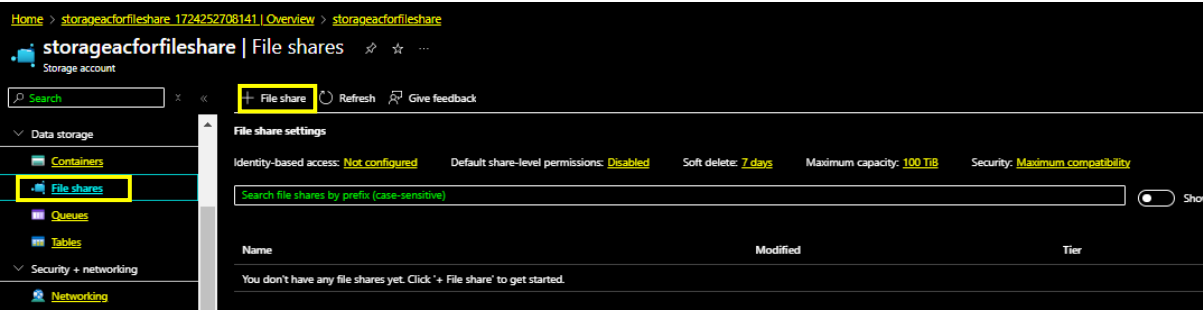
Redundancy * Locally-redundant storage (LRS)

Previous Next Review + create

Deployment Successful



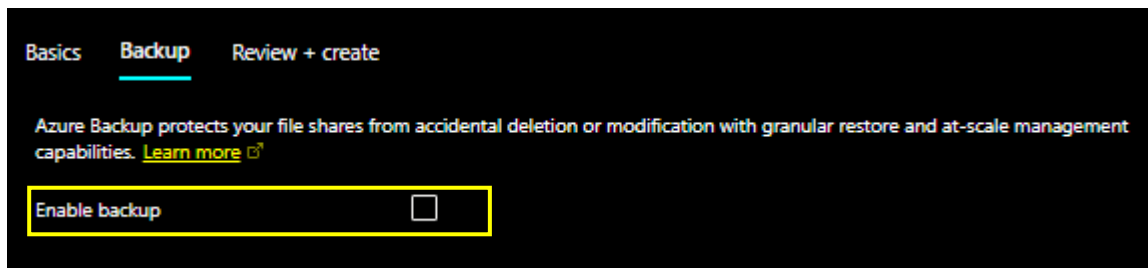
Open Storage Account > Data Storage > File Share



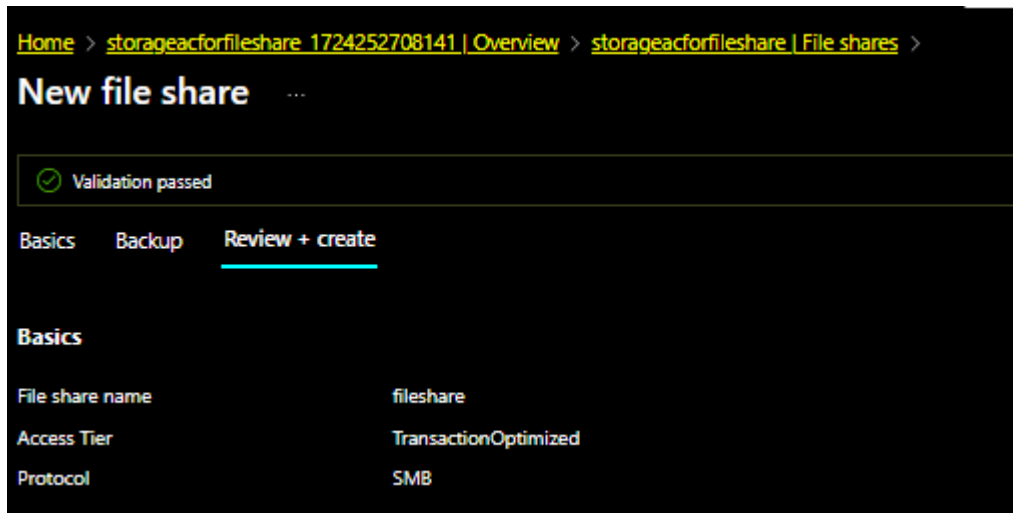
Create File Share



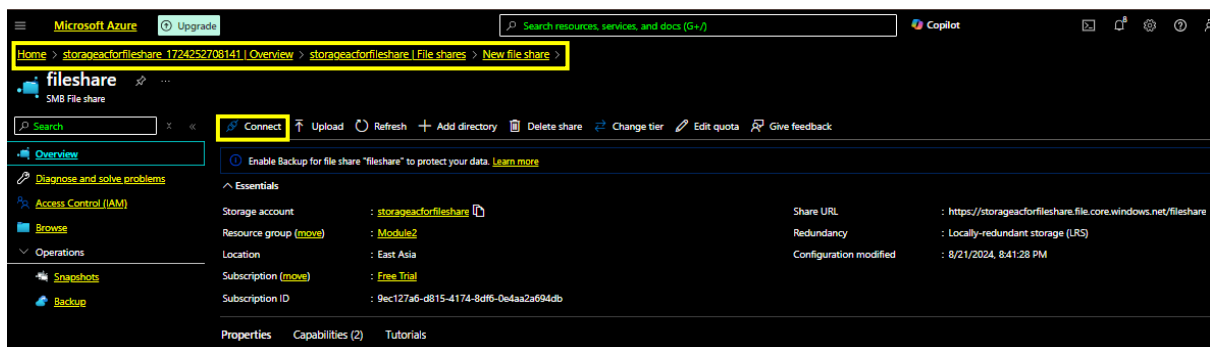
Don't enable Backup



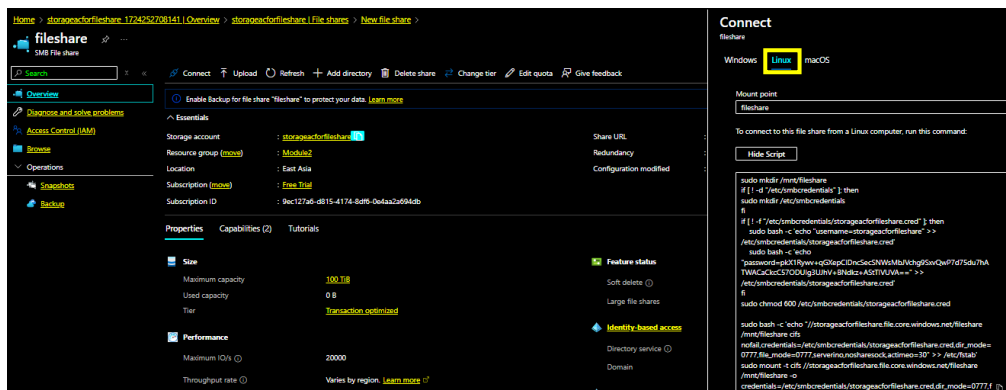
Review+Create



Go to Inside the fileshare and Connect



Click on Linux > Click Show Script > copy it



Launch Instances

```
PS C:\Users\shaik> ssh Salman@52.175.20.77
Salman@52.175.20.77's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 6.5.0-1025-azure x86_64)
```

Update and install cifs-utils(Server Message Block)

```
Salman@LinuxVM: ~$ sudo apt update && sudo apt install cifs-utils
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:5 http://azure.archive.ubuntu.com/ubuntu jammy InRelease [128 kB]
Get:6 http://azure.archive.ubuntu.com/ubuntu jammy/main amd64 Packages [905 kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [65.8 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [65.8 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [4.0 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main i386 DEP-11 Metadata [4.0 kB]
Get:11 http://azure.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [12.7 kB]
Get:12 http://azure.archive.ubuntu.com/ubuntu jammy-backports/main i386 Packages [12.7 kB]
Get:13 http://azure.archive.ubuntu.com/ubuntu jammy-security/main amd64 Packages [65.8 kB]
Get:14 http://azure.archive.ubuntu.com/ubuntu jammy-security/main i386 Packages [65.8 kB]
Get:15 http://azure.archive.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [4.0 kB]
Get:16 http://azure.archive.ubuntu.com/ubuntu jammy-security/main i386 DEP-11 Metadata [4.0 kB]
Fetched 33.4 MB in 7s (4759 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
18 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
cifs-utils is already the newest version (2:6.14-1ubuntu0.1).
0 upgraded, 0 newly installed, 0 to remove and 18 not upgraded.
Salman@LinuxVM:~$
Salman@LinuxVM:~$
```

Paste the copied script

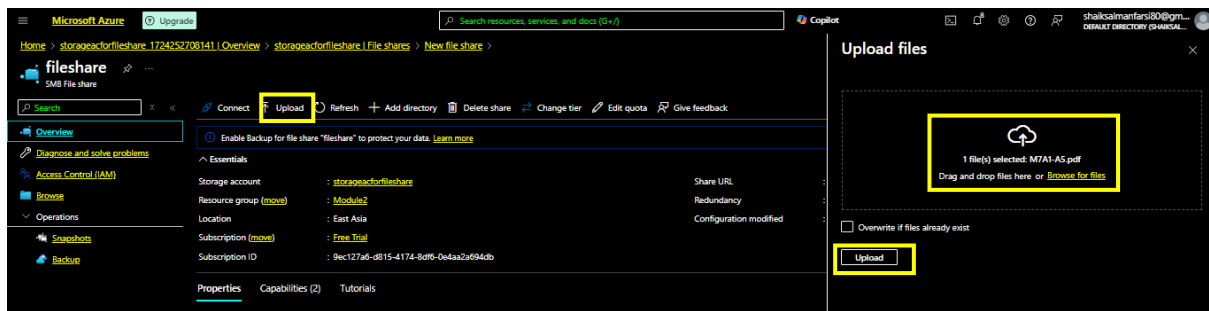
```
Salman@LinuxVM:~$ sudo mkdir /mnt/fileshare
if [ ! -d "/etc/smbcredentials" ]; then
sudo mkdir /etc/smbcredentials
fi
if [ ! -f "/etc/smbcredentials/storageacforfileshare.cred" ]; then
sudo bash -c 'echo "username=storageacforfileshare" >> /etc/smbcredentials/storageacforfileshare.cred'
sudo bash -c 'echo "password=pkXlRyvv+qGKepCIDncSecSNWsbJvchg9SxvQwP7d75du7hATWACaCkcC570DUlg3UJhV+BNDkz+ASTTIVUVA==" >> /etc/smbcredentials/st
orageacforfileshare.cred'
fi
sudo chmod 600 /etc/smbcredentials/storageacforfileshare.cred

sudo bash -c 'echo "//storageacforfileshare.file.core.windows.net/fileshare /mnt/fileshare cifs nofail,credentials=/etc/smbcredentials/storageacforf
ileshare.cred,dir_mode=0777,file_mode=0777,serverino,nosharesock,actimeo=30" >> /etc/fstab'
sudo mount -t cifs //storageacforfileshare.file.core.windows.net/fileshare /mnt/fileshare -o credentials=/etc/smbcredentials/storageacforfileshare.c
red,dir_mode=0777,file_mode=0777,serverino,nosharesock,actimeo=30
Salman@LinuxVM:~$
```

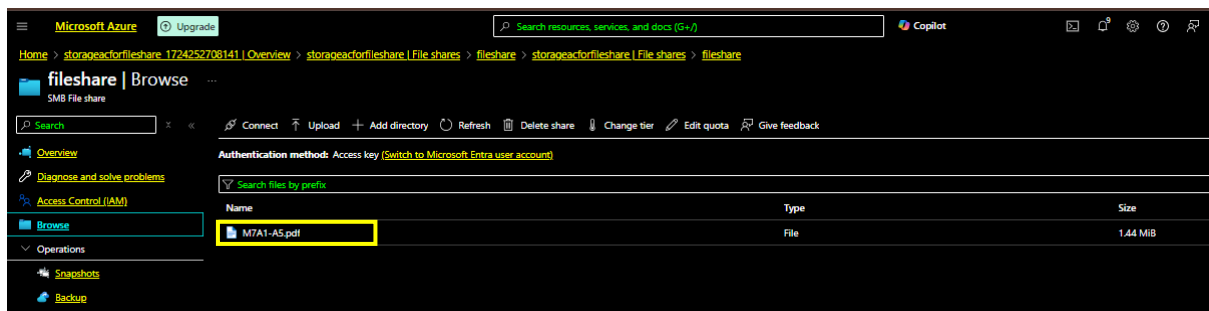
And go to fileshare path and List contains, currently there is no file on the file-share

```
Salman@LinuxVM: /mnt/files| $ cd /mnt/fileshare
Salman@LinuxVM:/mnt/fileshare$
Salman@LinuxVM:/mnt/fileshare$ ls
Salman@LinuxVM:/mnt/fileshare$
```

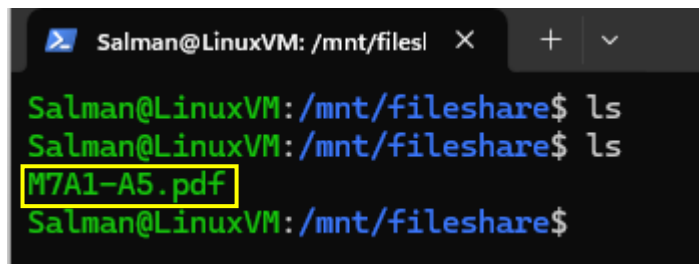

And I came to Azure portal and uploading a file on fileshare



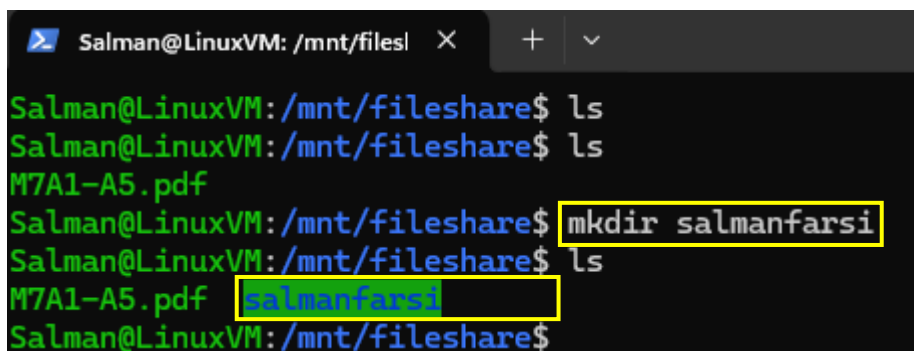
Now we can see the file



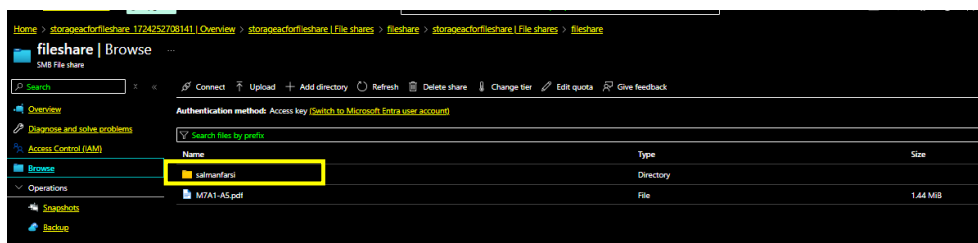
Now list contains we can see the file



And here I am creating directory



We can see the directory also on Azure Portal



Now I am Creating Windows VM

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

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

i This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

Project details

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

Subscription * ⓘ Free Trial

Resource group * ⓘ Module2
[Create new](#)

Instance details

Virtual machine name * ⓘ WindowsVM

Region * ⓘ (Asia Pacific) East Asia

Availability options ⓘ No infrastructure redundancy required

Security type ⓘ Standard

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

Image * ⓘ Windows Server 2019 Datacenter - x64 Gen2 (free services eligible)

[See all images](#) | [Configure VM generation](#)

This image is compatible with additional security features. [Click here to swap to the Trusted launch security type.](#)

VM architecture ⓘ ☐ Arm64
☒ x64

Arm64 is not supported with the selected image.

Run with Azure Spot discount ⓘ ☐

i You are in the free trial period. Costs associated with this VM can be covered by any remaining credits on your subscription. [Learn more](#)

Size * ⓘ Standard_B1s - 1 vcpu, 1 GiB memory (₹1,129.62/month) (free services eligi...

[See all sizes](#)

Enable Hibernation ⓘ ☐

Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernation to enable this feature. [Learn more](#)

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 * ✓

i All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

< Previous
Next : Disks >
Review + create

Successfully Created

Home > Virtual machines

Default Directory (shaiksalmanfarsi80@gmail.onmicrosoft.com)

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete Services Maintenance

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

Showing 1 to 2 of 2 records.

Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks
LinuxVM	Free Trial	Module2	East Asia	Running	Linux	Standard_B1s	52.175.20.77	1
WindowsVM	Free Trial	Module2	East Asia	Creating	Windows	Standard_B1s	20.2.113.174	1

Allow SMB Protocol(445)

Home > Virtual machines > WindowsVM

Virtual machines

Default Directory (shaiksalmanfarsi80@gmail.onmicrosoft.com)

+ Create Switch to classic

Filter for any field...

LinuxVM WindowsVM

WindowsVM | Network settings

Virtual machine

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Connect Connect Bastion Windows Admin Center

Networking

Network settings

Load balancing Application security groups Network manager Settings Disks Extensions + applications

This is a new experience. [Please provide feedback](#)

Admin security rules : 0 (Configure)

Rules Collapse all

Network security group **WindowsVMmsg948** (attached to networkInterface: windowsvm555)
Impacts 0 subnets, 1 network interfaces

Search rules Source == all Destination == all Protocol == all Action == all

Priority	Name	Port	Protocol
300	RDP	3389	TCP
65000	AllowVnetInBound	Any	Any
65001	AllowAzureLoadBalancerInBound	Any	Any
65500	DenyAllInBound	Any	Any

Outbound port rules (3)

Add inbound security rule

WindowsVMmsg948

Source Any

Source port ranges *

Destination Any

Service Custom

Destination port ranges * 445

Protocol TCP

Action Allow

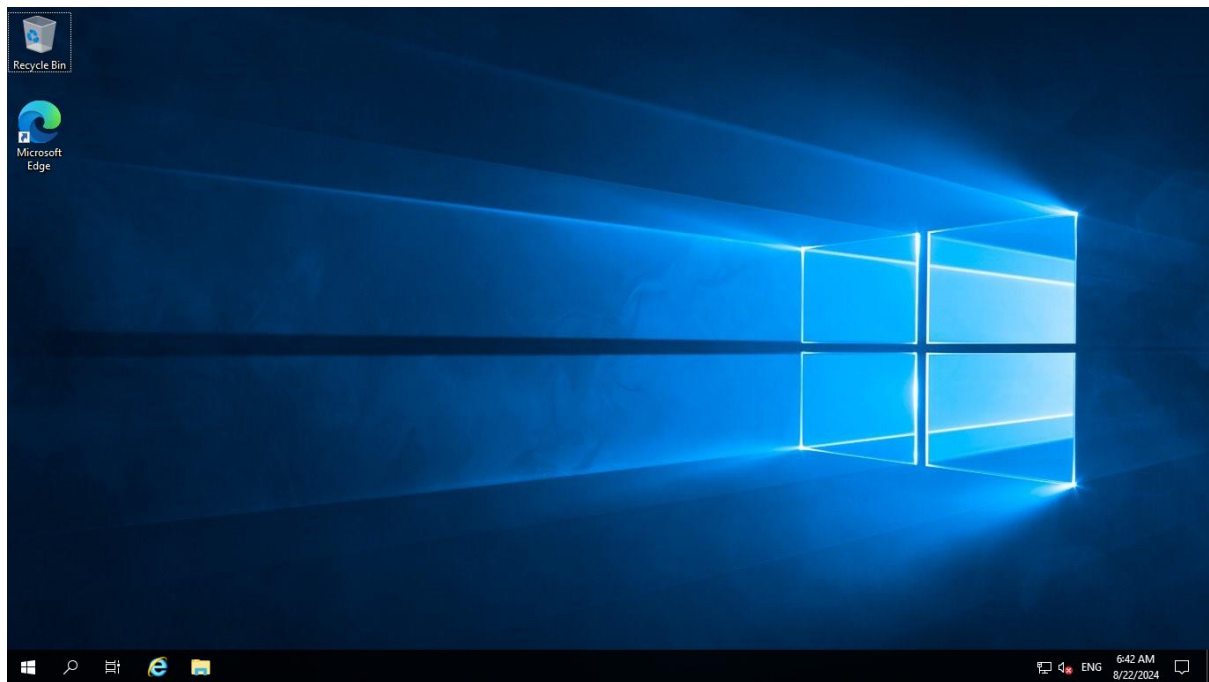
Priority 310

Add Cancel

Connecting to Windows machine

The screenshot shows the Azure portal interface for a virtual machine named 'WindowsVM'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Connect, Bastion, Windows Admin Center, and Networking. The main pane displays the 'Overview' tab for 'WindowsVM', showing details such as Resource group (Module2), Status (Creating), Location (East Asia), Subscription (Free Trial), and Subscription ID. A 'Run' dialog box is open in the foreground, with the text 'mstsc /r:20.2.113.174' entered in the 'Open:' field. The background also shows a 'Networking' section with details like Public IP address (20.2.113.174) and Private IP address (10.0.0.5).

The screenshot shows the Azure portal interface for the 'WindowsVM' virtual machine, specifically the 'Network settings' tab. The left sidebar is the same as in the previous image. The main pane displays the 'Network settings' for the virtual machine. A 'Windows Security' dialog box is open in the foreground, titled 'Enter your credentials'. It states 'These credentials will be used to connect to 20.2.113.174.' and shows a text field with 'Salman' and a password field with masked characters. There is a 'Remember me' checkbox and 'OK' and 'Cancel' buttons. The background also shows the 'Networking' section with details like Public IP address (20.2.113.174) and Private IP address (10.0.0.5).



I am Creating New Fileshare for Windows

Microsoft Azure

Upgrade

Search resources, services, and

[Home](#) > [storageaccount1724252708141 | Overview](#) > [storageaccount1724252708141 | File shares](#) >

New file share

Basics

Backup

Review + create

Name *

windowsfileshare

Access tier *

Transaction optimized

Performance

Maximum IO/s	20000
Maximum capacity	100 TiB

To use the SMB protocol with this share, check if you can communicate over port 445. These scripts for [Windows clients](#) and [Linux clients](#) can help. Learn how to [circumvent port 445 issues](#).

Home > storageaccountforfileshare 1724252708141 | Overview > storageaccountforfileshare | File shares >

New file share

Basics Backup Review + create

Azure Backup protects your file shares from accidental deletion or modification with granular restore and at-scale management capabilities. [Learn more](#)

☐ Enable backup

Microsoft Azure Upgrade Search resources, services, and docs (G+7) Copilot shaikcalmalfarsi80@ DEFAULT DIRECTORY (SHARE)

Home > storageaccountforfileshare 1724252708141 | Overview > storageaccountforfileshare

storageaccountforfileshare | File shares Storage account

Search Search file shares by prefix (case-sensitive) Show deleted shares

Name	Modified	Tier	Quota
fileshare	8/21/2024, 8:41:28 PM	Transaction optimized	100 TiB
windowsfileshare	8/21/2024, 9:21:40 PM	Transaction optimized	100 TiB

I selected **Z Drive Script**

Home > Storage accounts > storageaccountforfileshare | File shares >

windowsfileshare

SMB File share

Search Connect Upload Refresh Add directory Delete share Change tier Edit quota Give feedback

Enable Backup for file share "windowsfileshare" to protect your data. [Learn more](#)

Essentials

Storage account: storageaccountforfileshare Share URL

Resource group (move): Module2 Redundancy

Location: East Asia Configuration modified

Subscription (move): Free Trial

Subscription ID: 9ec127a6-d815-4174-8df0-0e4aa2af94db

Properties Capabilities (2) Tutorials

Size

Maximum capacity: 100 TiB

Used capacity: 0 B

Tier: Transaction optimized

Performance

Maximum I/O/s: 20000

Throughput rate: Varies by region. [Learn more](#)

Feature status

Soft delete: On

Large file shares

Identity-based access

Directory service: On

Domain

SMB protocol settings

Connect

windowsfileshare

Hide Script

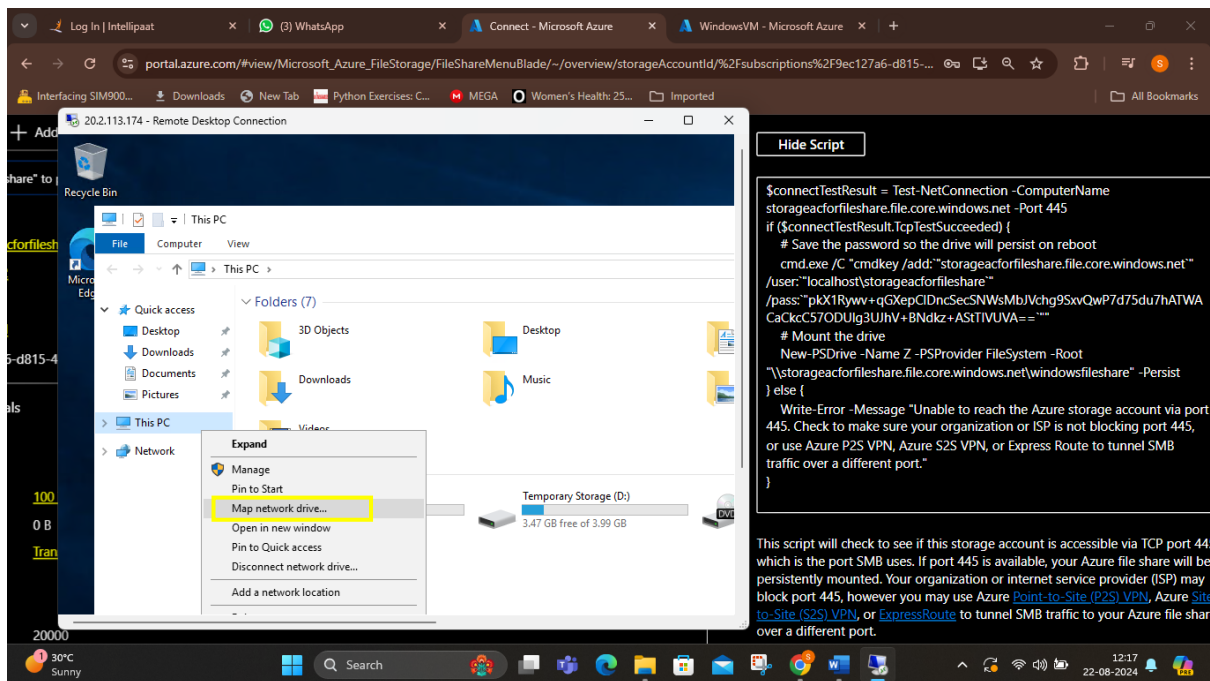
```
$connectTestResult = Test-NetConnection -ComputerName storageaccountforfileshare.file.core.windows.net -Port 445
if ($connectTestResult.TcpTestSucceeded) {
    # Save the password so the drive will persist on reboot
    cmd.exe /C "cmdkey /add:"storageaccountforfileshare.file.core.windows.net" /user:"localhost\storageaccountforfileshare" /pass:"p8K1Rywn+q0vqPCDn5c5hNw8t6Nvhg95vQwP7d75du7hATWA CqKqC3TOD4lpsUjWv+5Nutz+ASSTVJWA=---"
    # Mount the drive
    New-PSDrive -Name Z -PSProvider FileSystem -Root "storageaccountforfileshare.file.core.windows.net/windowsfileshare" -Persist
} else {
    Write-Error -Message "Unable to reach the Azure storage account via port 445. Check to make sure your organization or ISP is not blocking port 445, or use Azure P2S VPN, Azure S2S VPN, or ExpressRoute to tunnel SMB traffic over a different port."
}
```

This script will check to see if this storage account is accessible via TCP port 445, which is the port SMB uses. If port 445 is available, your Azure file share will be persistently mounted. Your organization or internet service provider (ISP) may block port 445, however you may use Azure [Point-to-Site \(P2S\) VPN](#), Azure [Site-to-Site \(S2S\) VPN](#), or [ExpressRoute](#) to tunnel SMB traffic to your Azure file share over a different port.

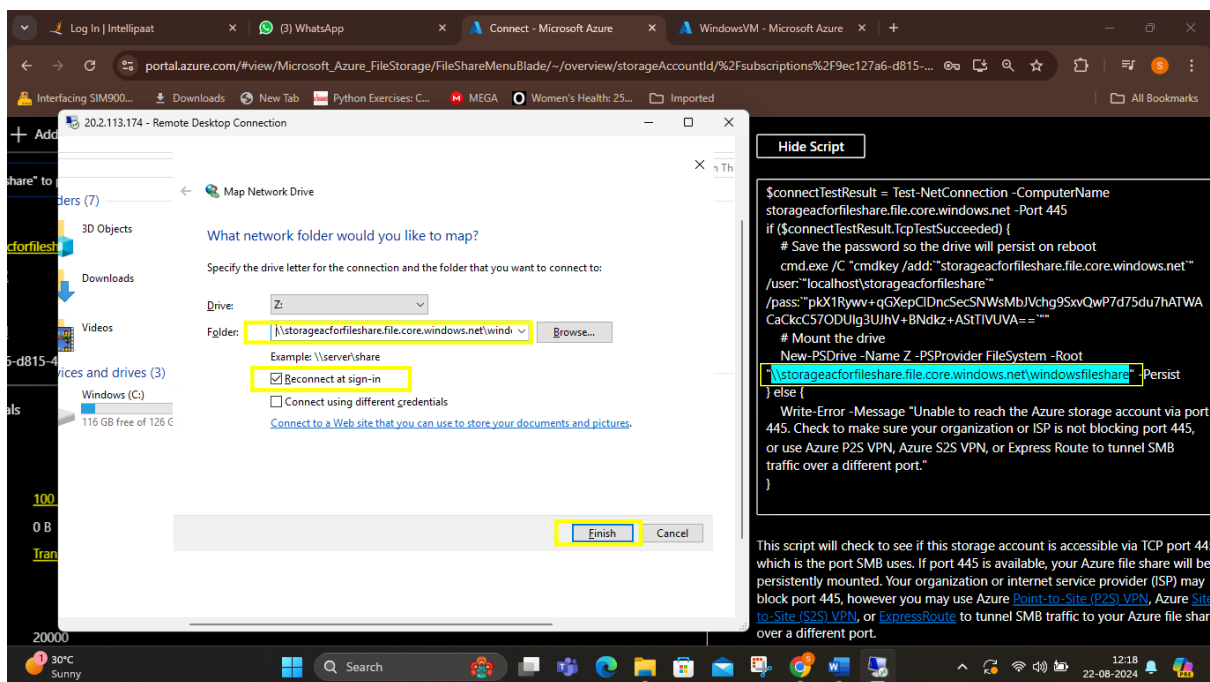
Note: The script will only work on Windows Server 2012 and above.

[Learn how to circumvent the port 445 problem \(VPN\)](#)

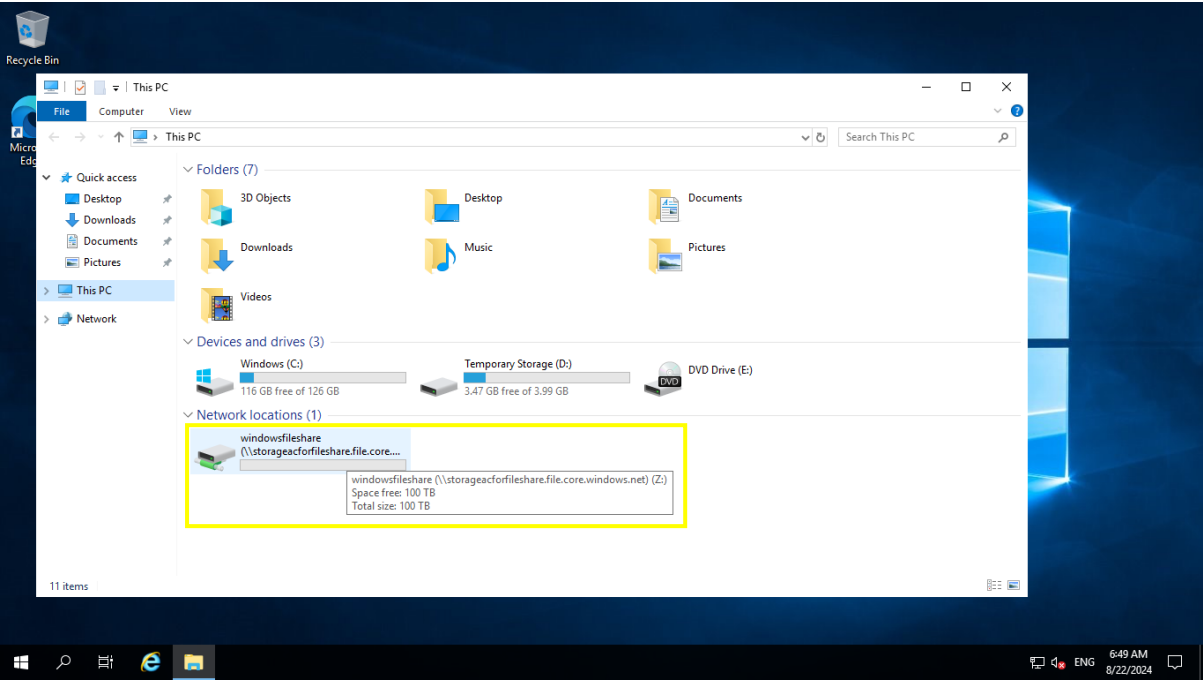
Right Click on This PC > Map network drive



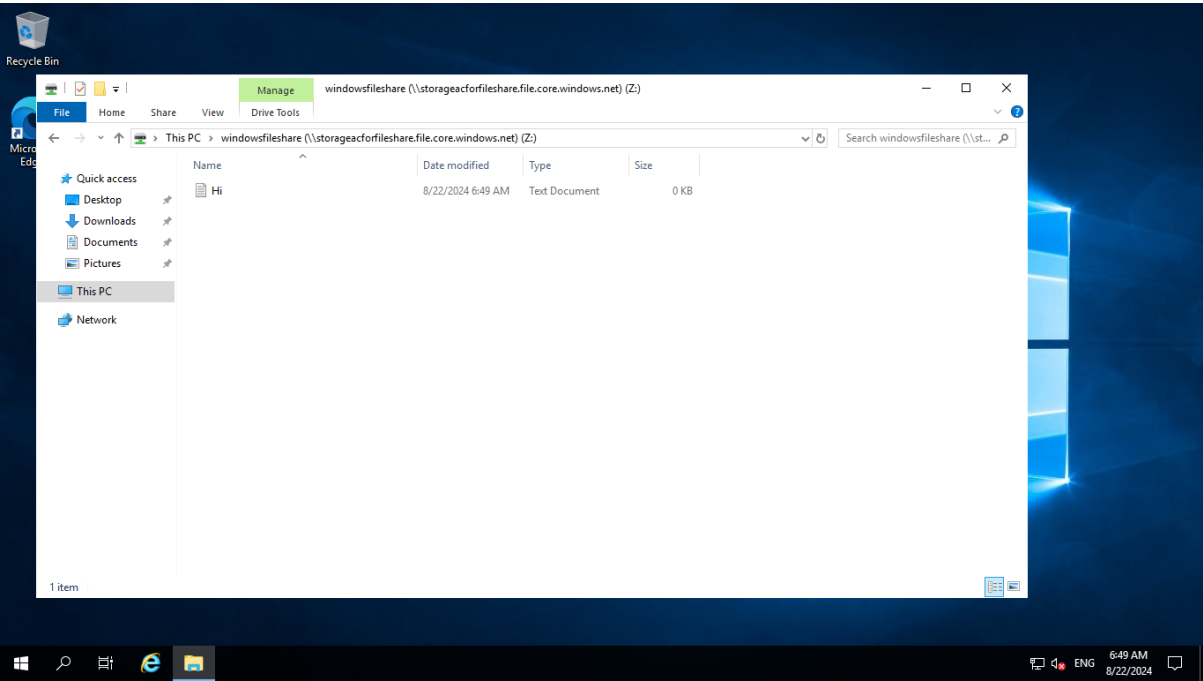
Copy from the script and Click on finish



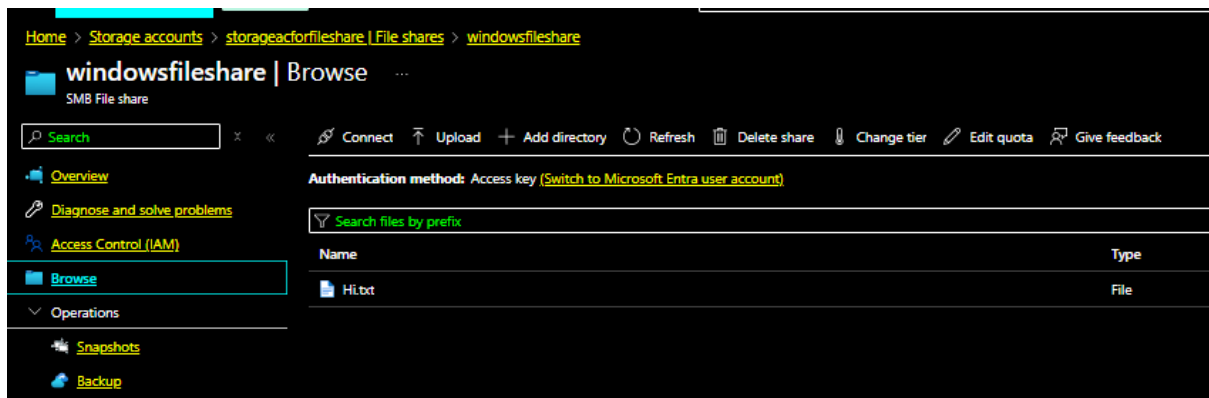
Now Fileshare Connected/Mounted Successfully



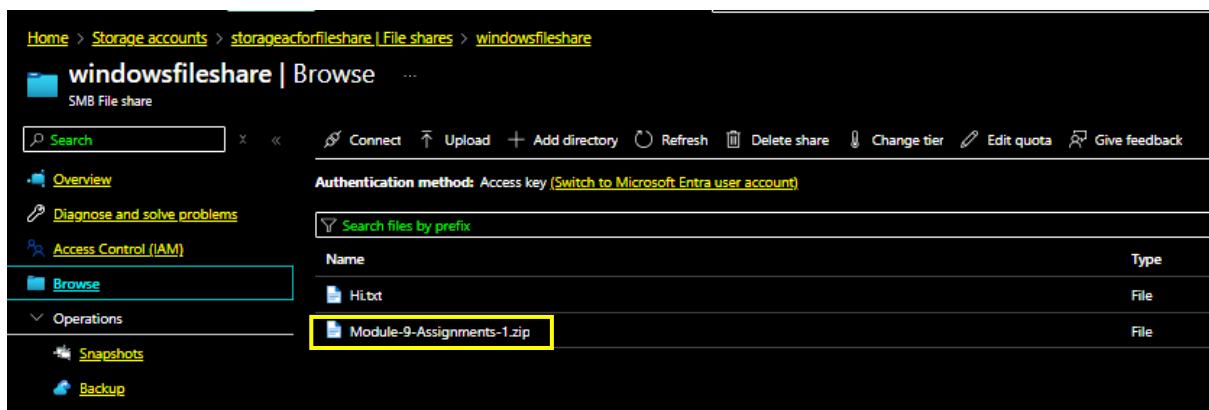
I Created text file



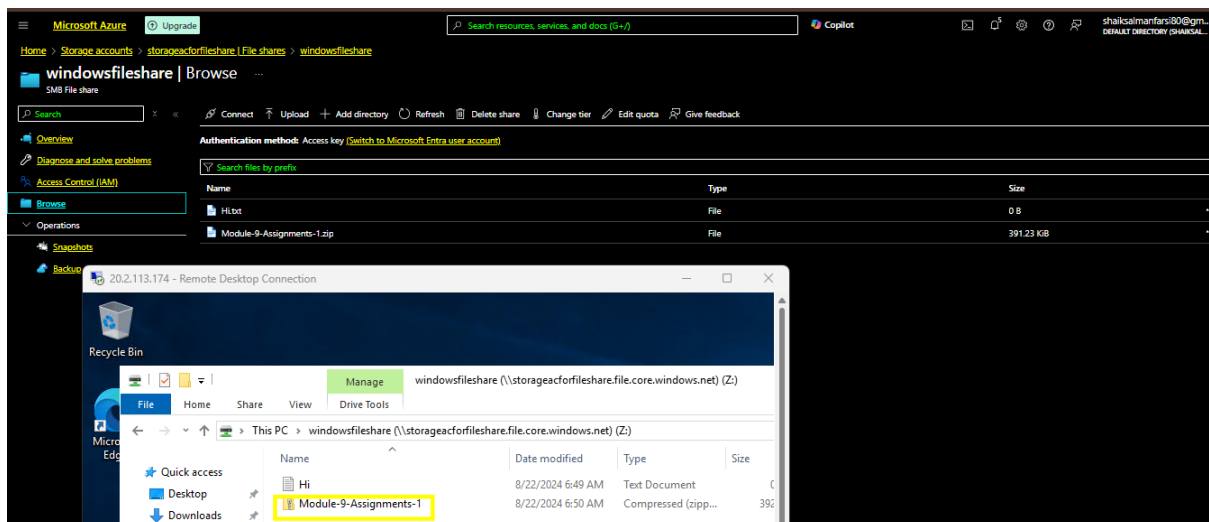
We can see on **Azure portal fileshare**

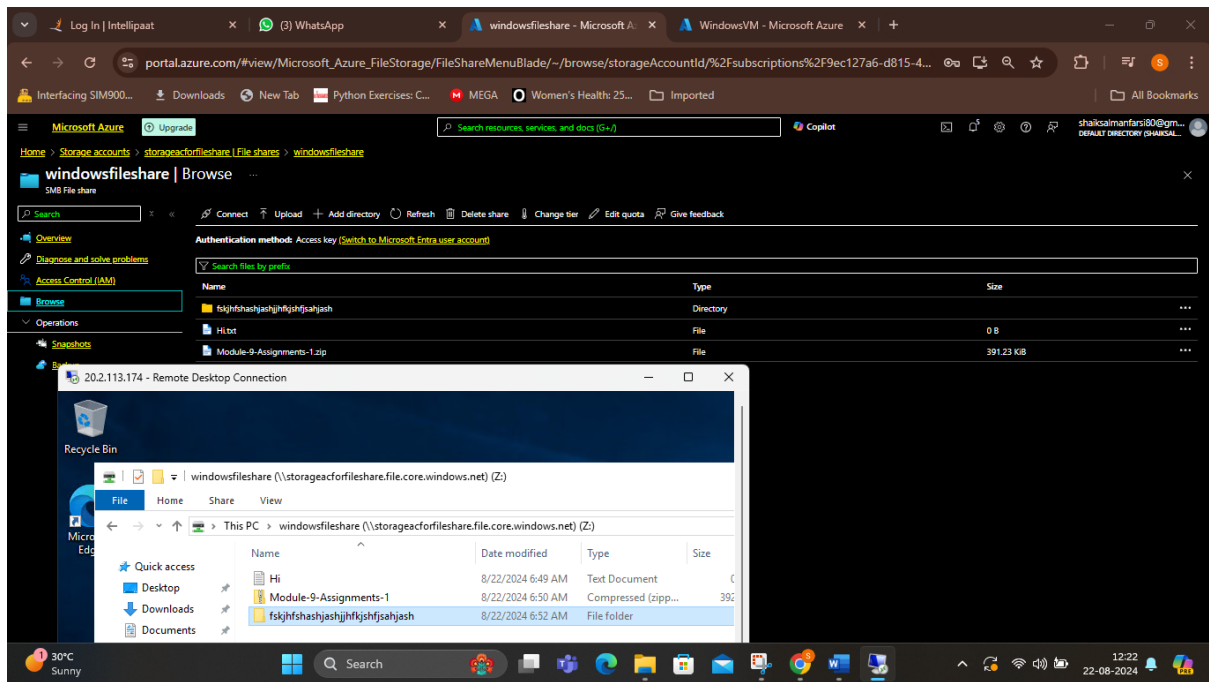


I just Upload here one zip folder



I can See it on windows Machine





Module 2: Assignment - 4

Azure 104 Certification Course



Tasks To Be Performed:

1. Create a Storage account, and upload some files in Blob storage
2. Create a CDN profile
3. Create an endpoint and connect to the Azure Blob to access the files uploaded

NOTE: Create CDN profile only with Subscription, for free trial its not working

I am Creating a Storage Account for CDN

Home > Storage accounts >

Create a storage account

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *

Resource group * [Create new](#)

Instance details

Storage account name *

Region * [Deploy to an Azure Extended Zone](#)

Primary service

Performance * ☒ Standard: Recommended for most scenarios (general-purpose v2 account)
☐ Premium: Recommended for scenarios that require low latency.

Redundancy *

[Previous](#) [Next](#) [Review + create](#)

Home >

forcdnstorageeac_1724310252237 | Overview

Deployment

Search

Overview **Inputs** **Outputs** **Template**

✓ Your deployment is complete

Deployment name: forcdnstorageeac_1724310252237 Start time: 8/22/2024, 12:35:12 PM
Subscription: Free Trial Correlation ID: 6c846f85-1537-406b-b793-6e320082bebe
Resource group: Module2

Deployment details

Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

After Creating I am configuring to Allowing Public access to Blob Anonymous

Home > Storage accounts > forcdnstorageeac

Storage accounts

Default Directory (shaiksalmanfarsi80@gmail.onmicr...)

+ Create Restore ...

Filter for any field...

Name ↑

forcdnstorageeac

forcdnstorageeac | Configuration

Save Discard Refresh Give feedback

Data protection

Object replication

Blob inventory

Static website

Lifecycle management

Azure AI Search

Settings

Configuration

Data Lake Gen2

The cost of your storage account depends on the usage and the options you choose below. [Learn more about storage pricing](#)

Account kind

StorageV2 (general purpose v2)

Performance ☒ Standard ☐ Premium

This setting cannot be changed after the storage account is created.

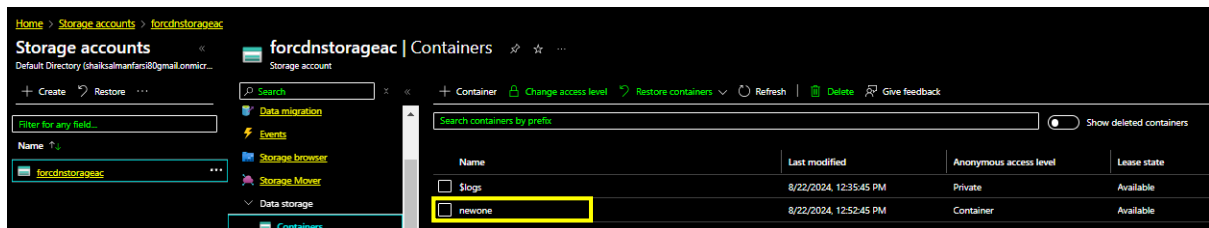
Secure transfer required ☐ Disabled ☒ Enabled

Allow Blob anonymous access ☐ Disabled ☒ Enabled

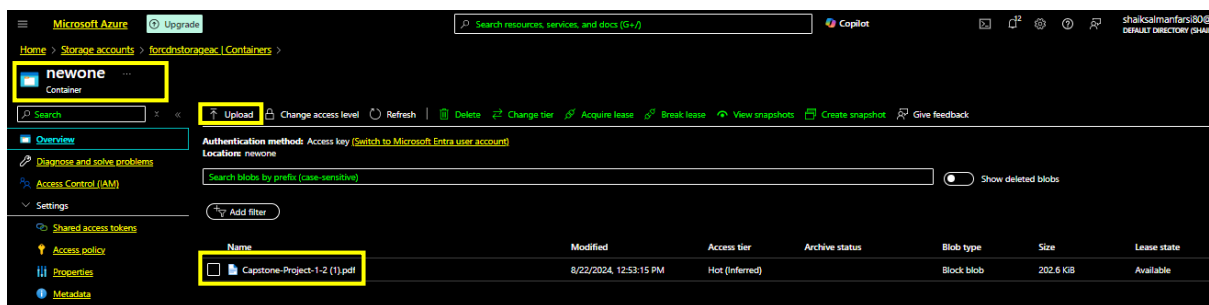
Going to Container Click on + Container **newone** Create it



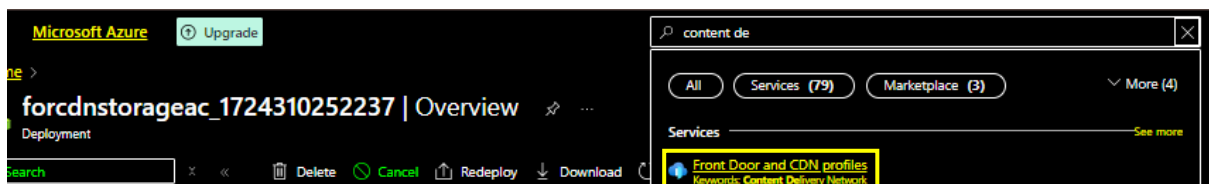
Go to inside the newone container



Upload a File



Search Content delivery network



Microsoft Azure

Upgrade

Search resources, services, and docs (G+)

Copilot

Home > Front Door and CDN profiles >

Compare offerings

Microsoft Azure

Choose between Azure Front Door and other offerings.

Azure Front Door

Azure Front Door is a secure cloud CDN which provides static and dynamic content acceleration, global load balancing and protection of your apps, APIs and websites with intelligent threat protection.

Explore other offerings

See offerings for our Azure Front Door (classic) and Azure CDN Standard from Microsoft (classic), along with our partner offerings.

Choose other offerings

Azure Front Door (classic)

A global and scalable entry point that uses Microsoft global network to provide dynamic application acceleration, load balancing and security.

Azure Front Door (classic) will be retired on March 31, 2027. It is highly recommended to start new creations on Azure Front Door Standard and Premium to avoid future migrations and benefit from all the new and enhanced capabilities.

Azure CDN Standard from Microsoft (classic)

A global content delivery network that uses Microsoft global network for content caching and acceleration.

Azure CDN Premium from Edgio

Edgio Media operates a global CDN platform with a focus on media streaming, delivery and security.

Azure CDN Standard from Edgio

Edgio Media operates a global CDN platform with a focus on media streaming, delivery and security.

Continue

Microsoft Azure

Upgrade

Search resources, services, and docs (G+)

Home > Front Door and CDN profiles > Compare offerings >

CDN profile

Basics

Tags

Review + create

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. [Learn more](#)

Subscription *

Free Trial

Resource group *

Module2

Create new

Resource group region ⓘ

East Asia

Profile details

Name *

1stcdn

Region

Global

CDN profiles are global resources that work across Azure regions

Pricing tier *

Microsoft CDN (classic)

[View full pricing details](#)

Endpoint settings

Create a new CDN endpoint

☒

CDN endpoint name *

1stcdn

.azureedge.net

Review + create

< Previous

Next: Tags >

[View full pricing details](#)

Endpoint settings

Create a new CDN endpoint ☒

CDN endpoint name * ☒

Origin type * ☒

Origin hostname * ⓘ ☒

Query string caching behavior * ⓘ ☒

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

For Free trial its not working

[Home](#) > [Front Door and CDN profiles](#) > [Compare offerings](#) >

CDN profile

❌ Validation failed. Required information is missing or not valid.

❌ Basics [Tags](#) [Review + create](#)

Basics

❌ Subscription

Free Trial
In order to create this CDN profile, please ensure that Microsoft.CDN is listed as a registered Resource Provider in your Azure subscription

Resource group

Resource group region

Name

Pricing tier

Endpoint settings

CDN endpoint name

Origin hostname

Query string caching behavior

Tags

[Create](#) [< Previous](#) [Next](#) [View template](#)

Microsoft Azure

Upgrade

Search resources, services, or documentation

Home > Front Door and CDN profiles > Compare offerings >

CDN profile

Basics

Tags

Review + create

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. [Learn more](#)

Subscription *

Free Trial

In order to create this CDN profile, please ensure that Microsoft.CDN is listed as a registered Resource Provider in your Azure subscription

Resource group *

Module2

Create new

Resource group region ⓘ

East Asia

I Upgraded it to Subscription and tried

Home > Front Door and CDN profiles > Compare offerings >

CDN profile

Basics

Tags

Review + create

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. [Learn more](#)

Subscription *

Azure subscription 1

Resource group *

Module2

Create new

Resource group region ⓘ

East Asia

Profile details

Name *

1stcdn

Region

Global

CDN profiles are global resources that work across Azure regions

Pricing tier *

Microsoft CDN (classic)

[View full pricing details](#)

Endpoint settings

Create a new CDN endpoint

☒

CDN endpoint name *

1stcdn

.azureedge.net

Review + create

< Previous

Next: Tags >

[View full pricing details](#)

Endpoint settings

Create a new CDN endpoint ☒

CDN endpoint name * .azureedge.net

Origin type *

Origin hostname * ⓘ

Query string caching behavior * ⓘ

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

Review+Create

[Home](#) > [Front Door and CDN profiles](#) > [Compare offerings](#) >

CDN profile ...

✓ Validation passed.

Basics Tags [Review + create](#)

Basics

Subscription	Azure subscription 1
Resource group	Module2
Resource group region	East Asia
Name	1stcdn
Pricing tier	Microsoft CDN (classic)

Endpoint settings

CDN endpoint name	1stcdn
Origin hostname	forcdnstorageac.blob.core.windows.net
Query string caching behavior	Ignore query strings

Tags

Deployment successful

Microsoft Azure Copilot

[Home](#) >

Microsoft.CDN-Profile-EPc1a389b2-33df-4e7b-8b81-cd6efda8a381 | Overview

Deployment

[Delete](#) [Cancel](#) [Redeploy](#) [Download](#) [Refresh](#)

[Overview](#) [Inputs](#) [Outputs](#) [Template](#)

✓ Your deployment is complete

Deployment name : Microsoft.CDN-Profile-EPc1a389b2-33df-4e7b-8b81-cd6efda8a381 Start time : 8/22/2024, 1:48:17 PM
Subscription : [Azure subscription 1](#) Correlation ID : 87e4bac0-ce5e-4534-b043-dd5cb4c7eea9
Resource group : [Module2](#)

> Deployment details
✓ Next steps
[Go to resource](#)

Come to CDN profile and **Click Configure Origin**

The screenshot shows the Microsoft Azure portal interface. In the left-hand navigation pane, the 'Origin' tab is selected. The main content area displays the 'Origins' section for the '1stcdn (1stcdn/1stcdn)' profile. A table lists the configured origins, with the first entry highlighted. The 'Configure Origin' button is highlighted in the 'Origins' section.

Name	Origin hostname	Origin type	Origin host header	Priority	Weight	Status	Origin path	Protocol	Origin port
forcdnstorageac-blo...	forcdnstorageac-blo...	Storage	forcdnstorageac-blo...	1	1000	Enabled		HTTP, HTTPS	80, 443

/newone > ok, here my container name is newone

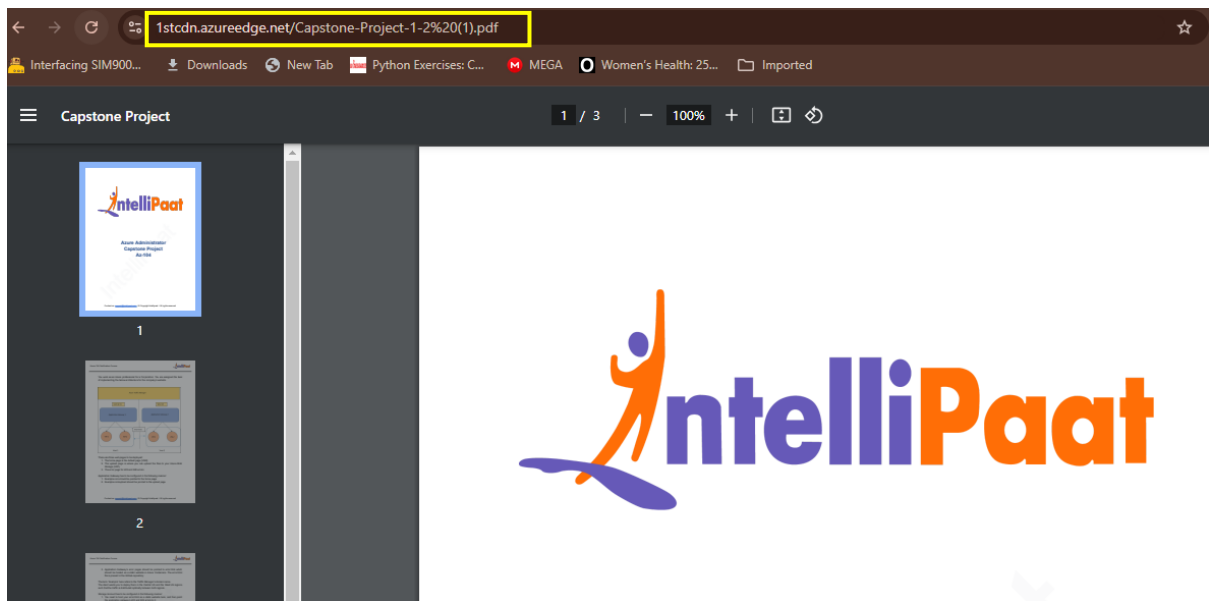
The screenshot shows the 'Configure Origin' dialog box in the Microsoft Azure portal. The 'Origin path' field is set to '/newone'. The 'HTTP allowed' and 'HTTPS allowed' checkboxes are checked. The 'OK' button is highlighted.

And Come to Overview and **copy the endpoint hostname name**

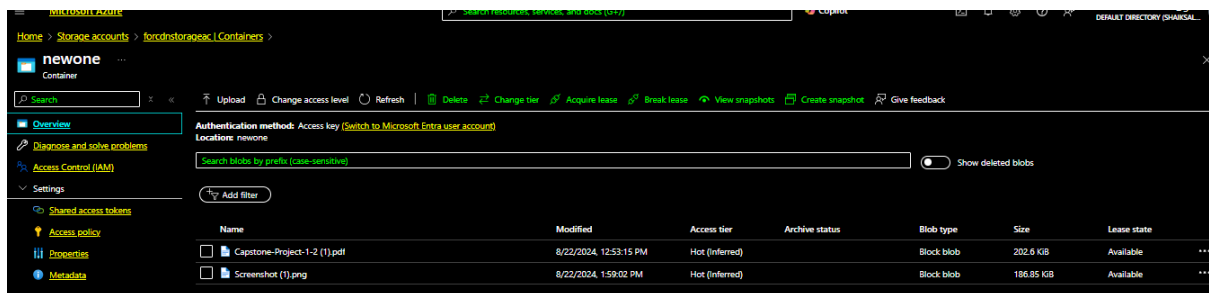
The screenshot shows the 'Overview' page for the '1stcdn (1stcdn/1stcdn)' profile in the Microsoft Azure portal. The 'Endpoint hostname' is highlighted as 'https://1stcdn.azureedge.net'.

Resource group (move)	Module?
Status	Running
Location	Global
Subscription (move)	Azure subscription 1
Subscription ID	9ec127a6-d815-4174-8df6-0e4aa2a694db

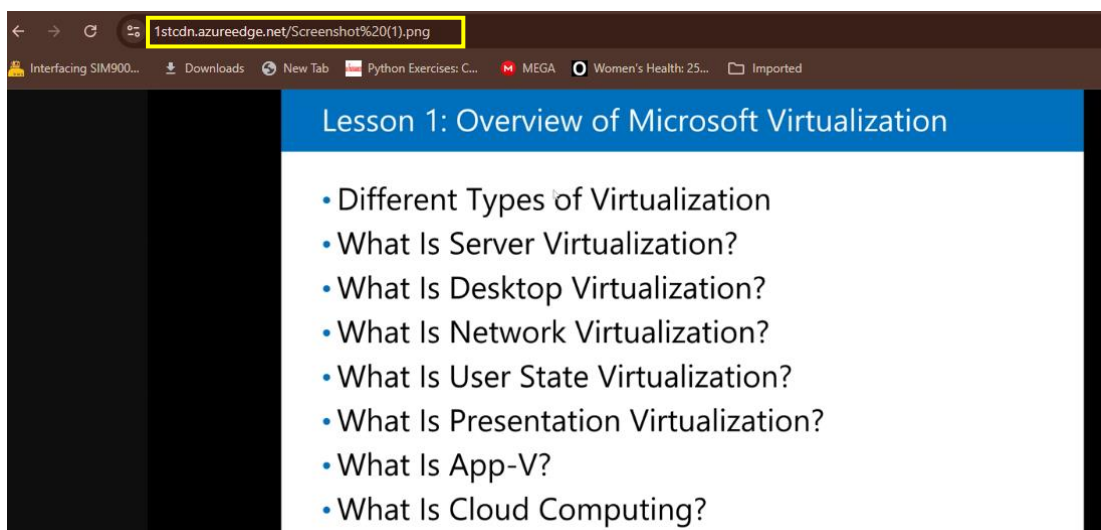
Paste it on Browser and /your file name



I uploaded a Screenshot (1).png



This file also visible globally using CDN

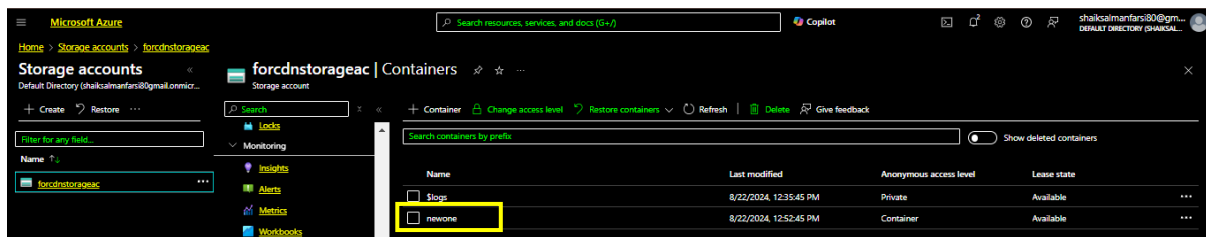


Module 2: Assignment - 5

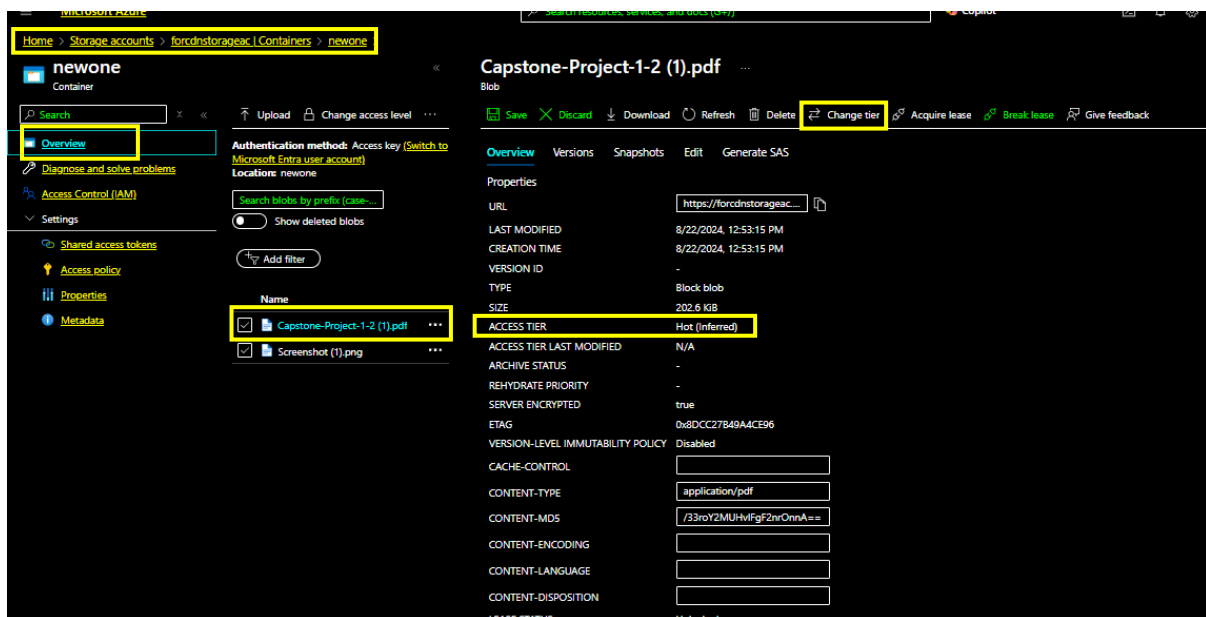
Tasks To Be Performed:

1. Create a storage account
2. Use the Blob service and upload some files in it
3. Change the access tier to archive

I am Using Previous One



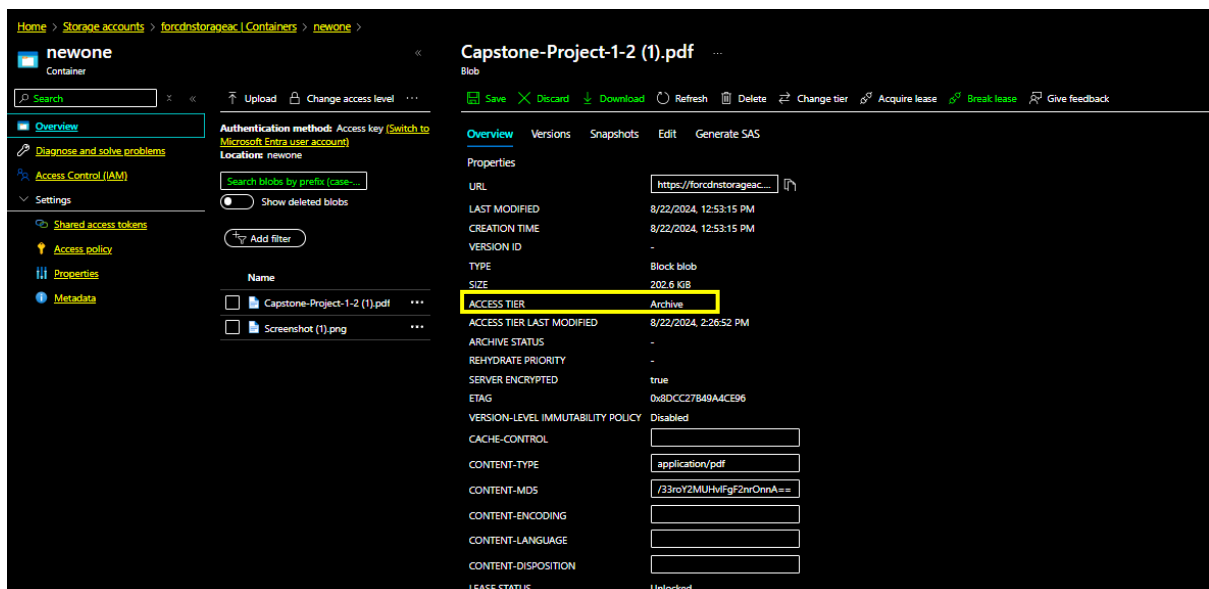
Come to overview Click on file which u want to change access tier to archive > Click on change tier



Change into Archive > Save



Now we can see the Archive status



1. Hot:

Usage: Frequently accessed data.

Cost: Higher storage costs, lower access costs.

2. Cool:

Usage: Infrequently accessed data (stored for at least 30 days).

Cost: Lower storage costs than Hot, higher access costs.

3. Cold:

Usage: Rarely accessed data, similar to Cool but with longer storage duration.

Cost: Lower storage costs than Cool, higher access costs.

4. Archive

Usage: Rarely accessed data that can tolerate higher retrieval latency (stored for at least 180 days).

Cost: Lowest storage costs, highest access and rehydration costs.