

Practical No: 6

Configure FSLogix container

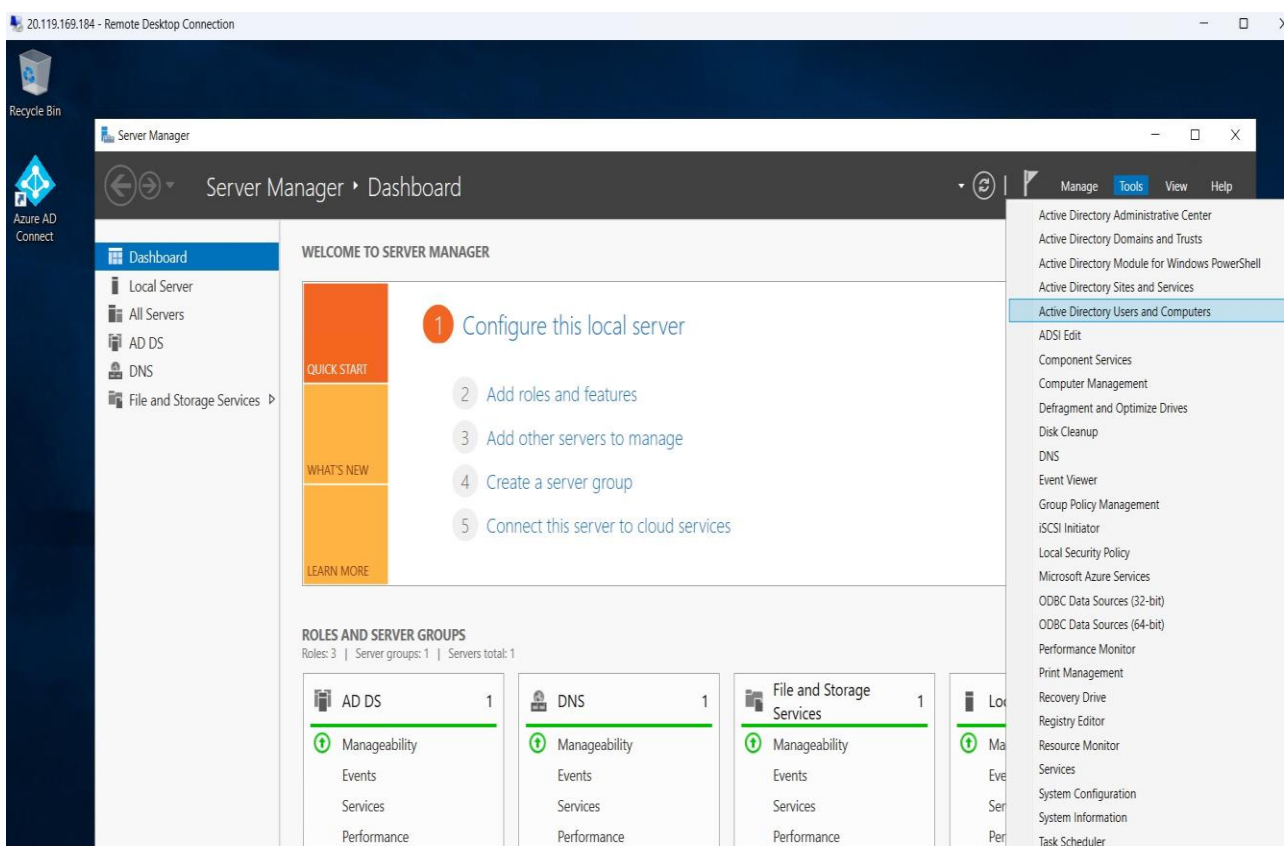
Agenda:

Section 4:

1. Create Groups in Dc and assign Roles in Fileshare
2. Mount FS in VM and Config NTFS permission
3. Configure Fslogix container and config NTFS
4. Reference: - <https://www.youtube.com/watch?v=6Zpq9XnFRLA&list=PL-7q6zBuziYE9ZMWhigjU6VXI0v1mLnPL&index=6>

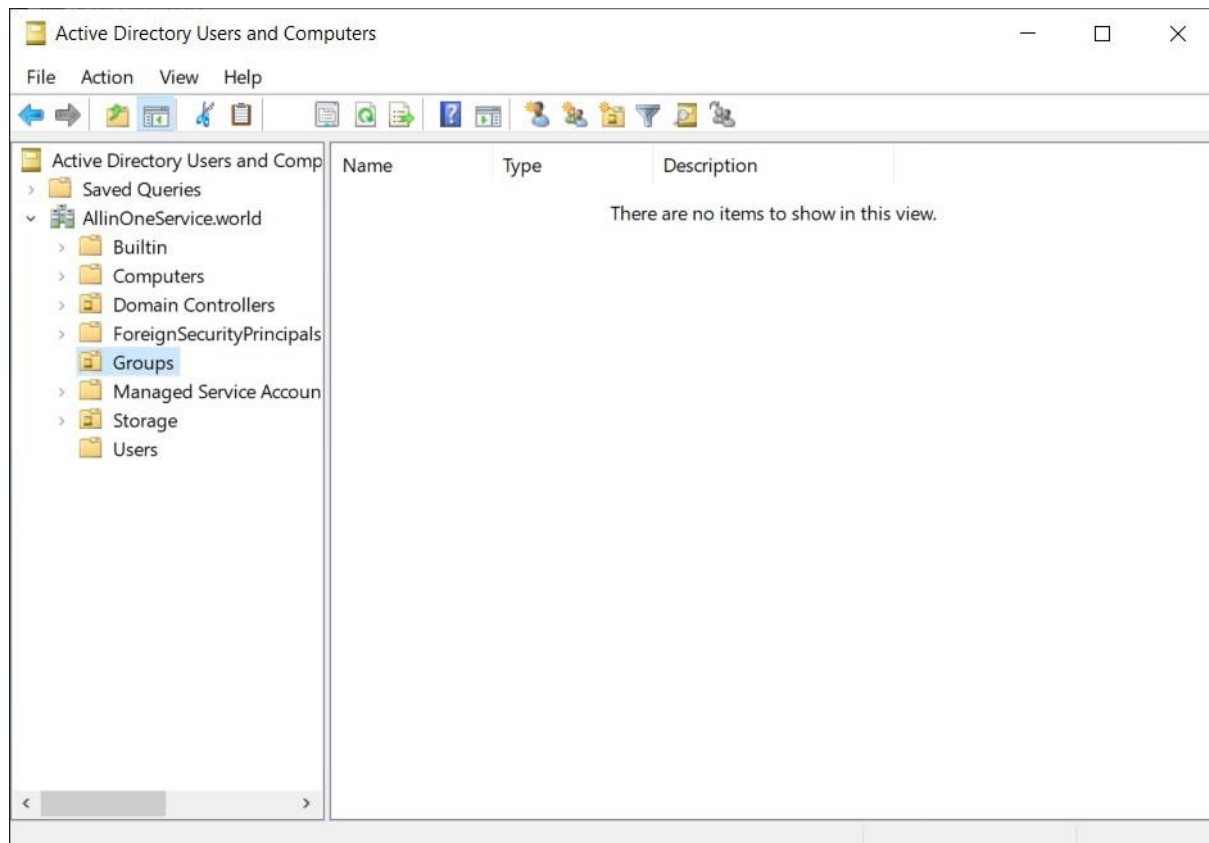
1. Create Groups in Dc and assign Roles in Fileshare:

- Go to Created VM
- In server Manager → Click to Tools → Active Directory users and Computers

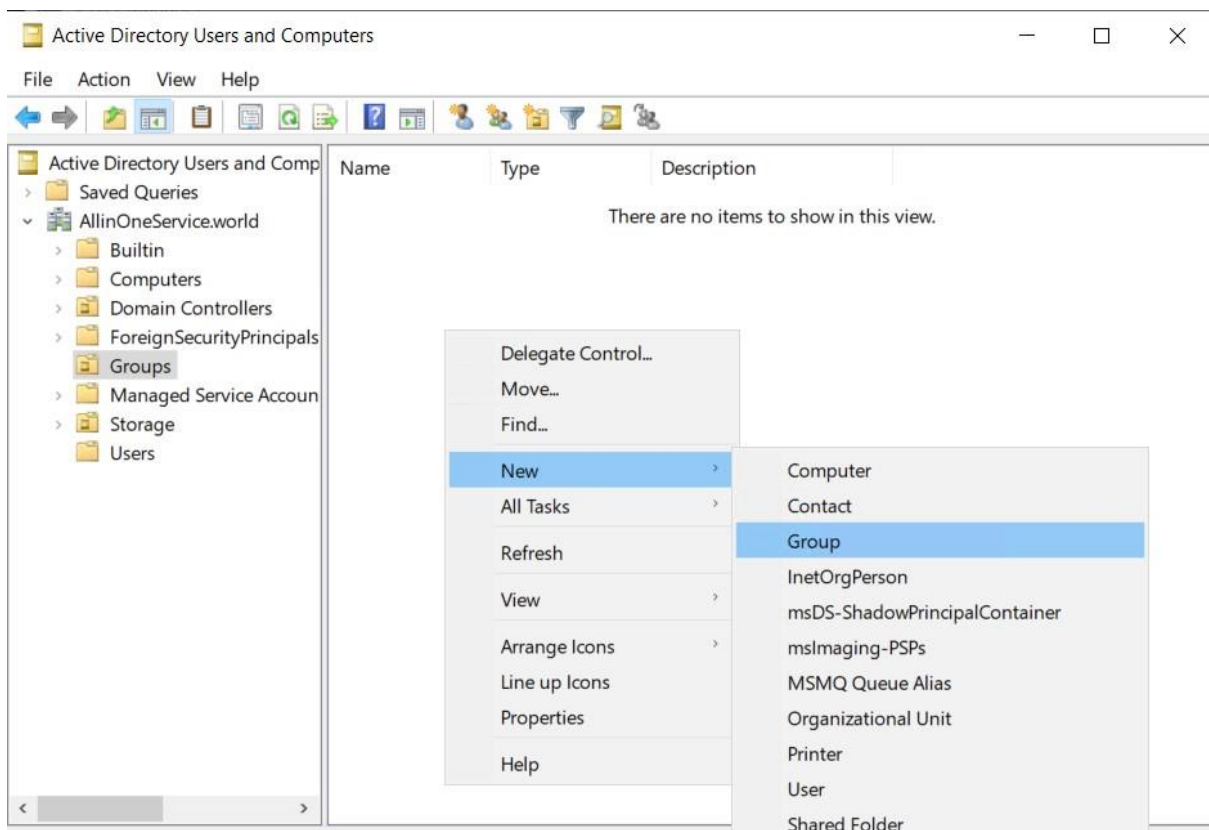


Section 4: Implementing Fslogix on AVD

- Create a new group Folder

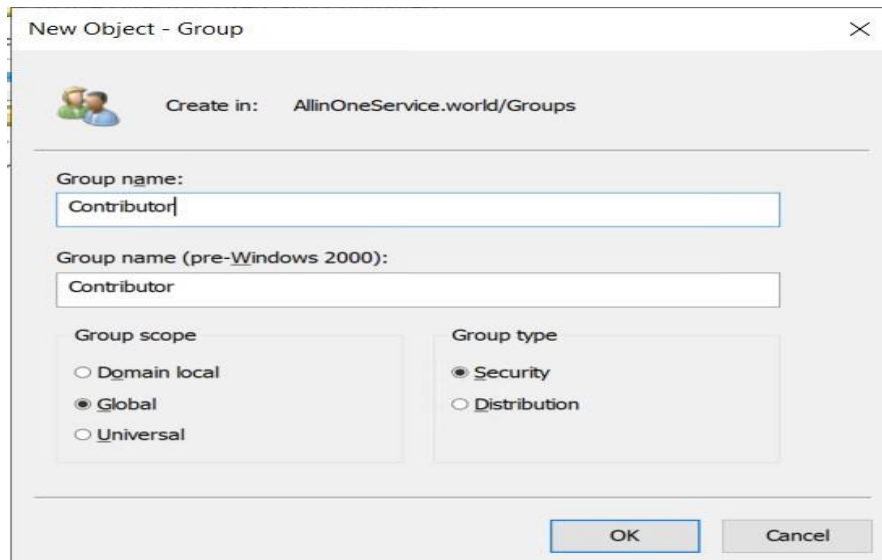


- Right click and create a new group



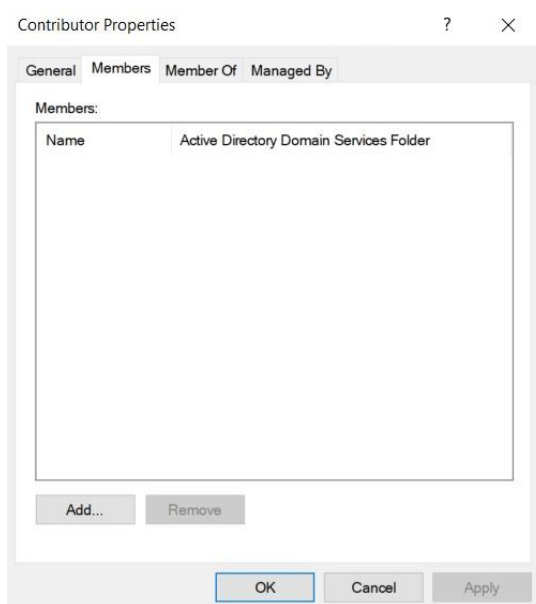
Section 4: Implementing Fslogix on AVD

- Give name Contributor

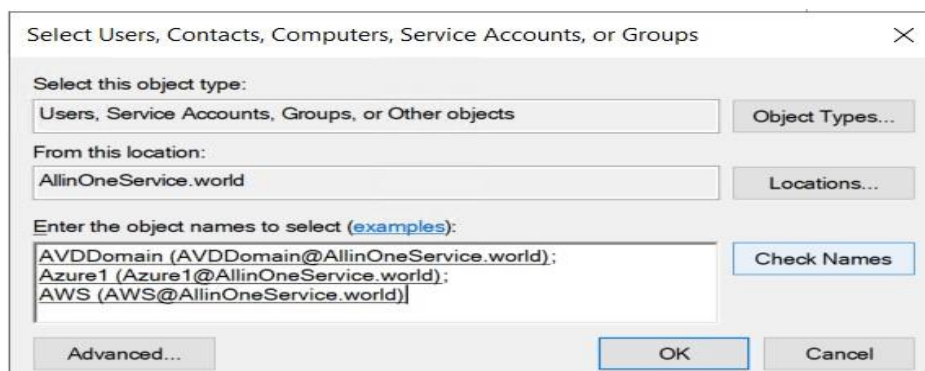


The 'New Object - Group' dialog box is shown. The 'Create in' field is set to 'AllinOneService.world/Groups'. The 'Group name' field contains 'Contributor'. The 'Group name (pre-Windows 2000)' field also contains 'Contributor'. Under 'Group scope', the 'Global' radio button is selected. Under 'Group type', the 'Security' radio button is selected. The 'OK' and 'Cancel' buttons are at the bottom right.

- Go to Members and Add created user



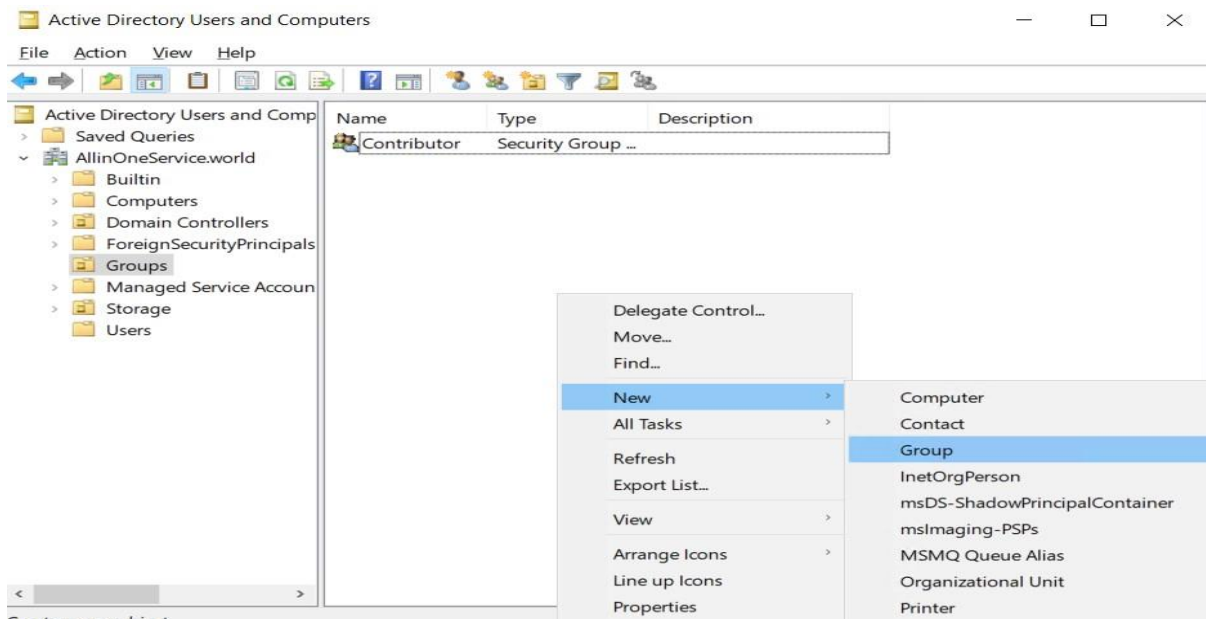
The 'Contributor Properties' dialog box is shown with the 'Members' tab selected. The 'Members' list is empty. Below the list are 'Add...' and 'Remove' buttons. The 'OK', 'Cancel', and 'Apply' buttons are at the bottom right.



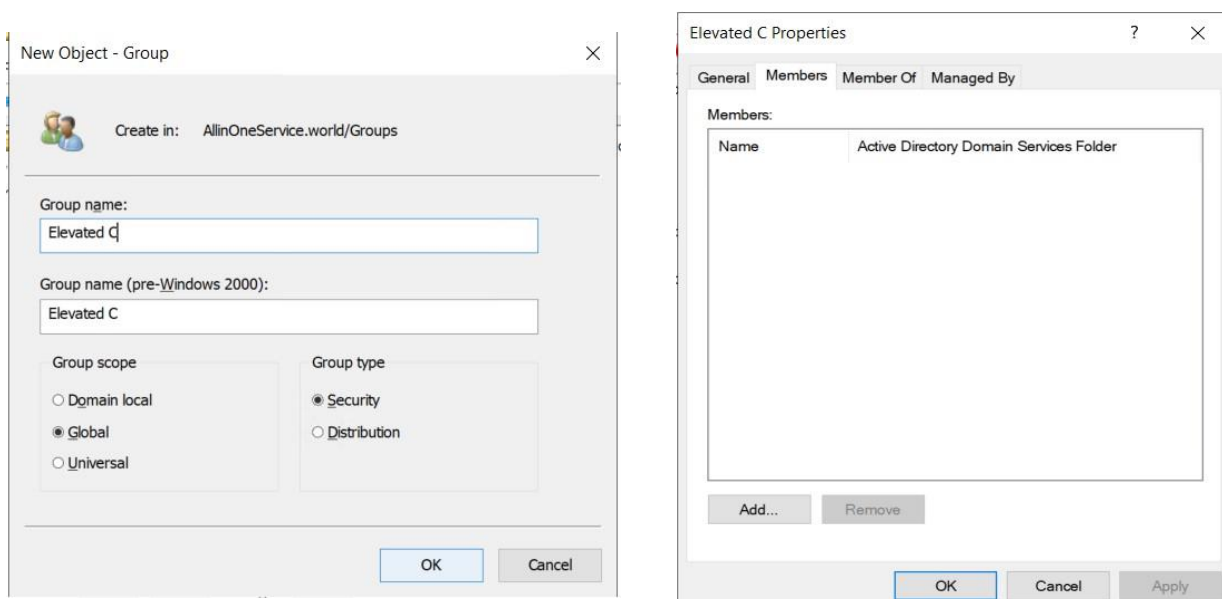
The 'Select Users, Contacts, Computers, Service Accounts, or Groups' dialog box is shown. The 'Select this object type' dropdown is set to 'Users, Service Accounts, Groups, or Other objects'. The 'From this location' dropdown is set to 'AllinOneService.world'. The 'Enter the object names to select (examples):' text box contains the following text: 'AVDDomain (AVDDomain@AllinOneService.world);', 'Azure1 (Azure1@AllinOneService.world);', and 'AWS (AWS@AllinOneService.world)'. The 'Check Names' button is to the right of the text box. The 'Advanced...' button is at the bottom left, and the 'OK' and 'Cancel' buttons are at the bottom right.

Section 4: Implementing Fslogix on AVD

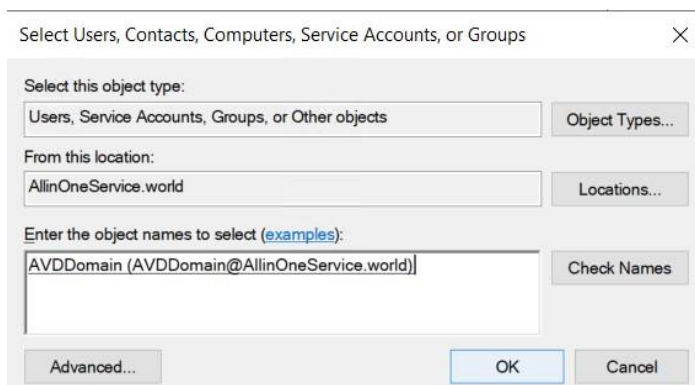
- Now again Right click and create a new group



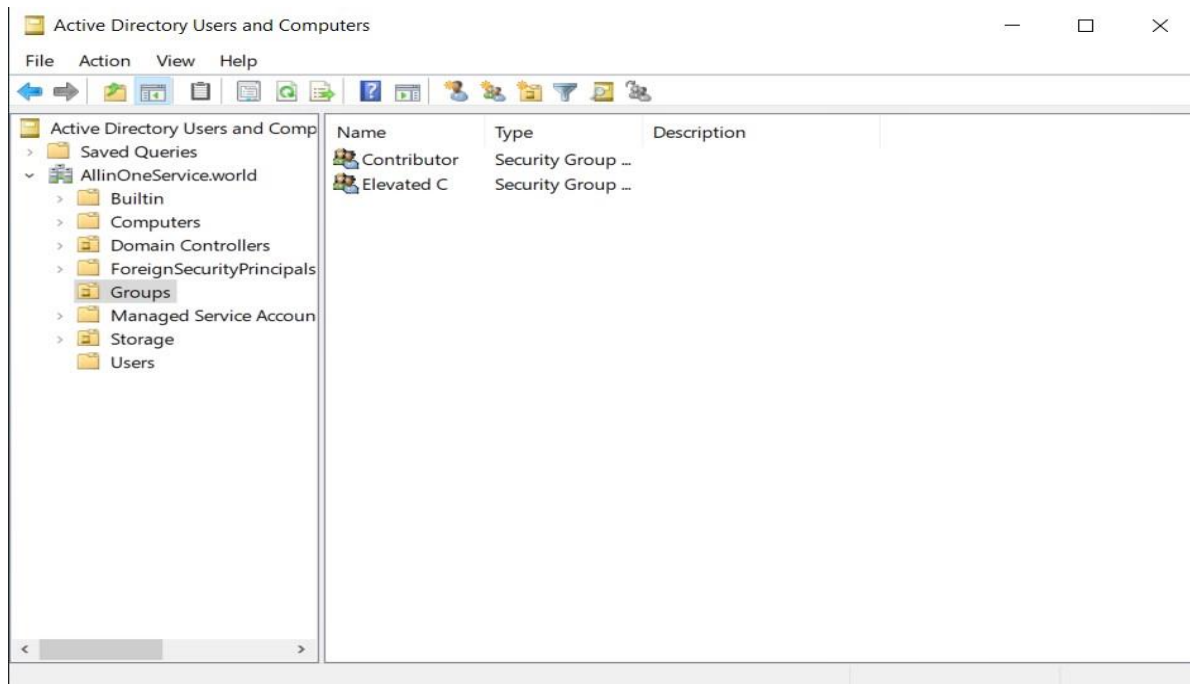
- Give name of Group Elevated C



- Add member AVDDomain
- Then click ok

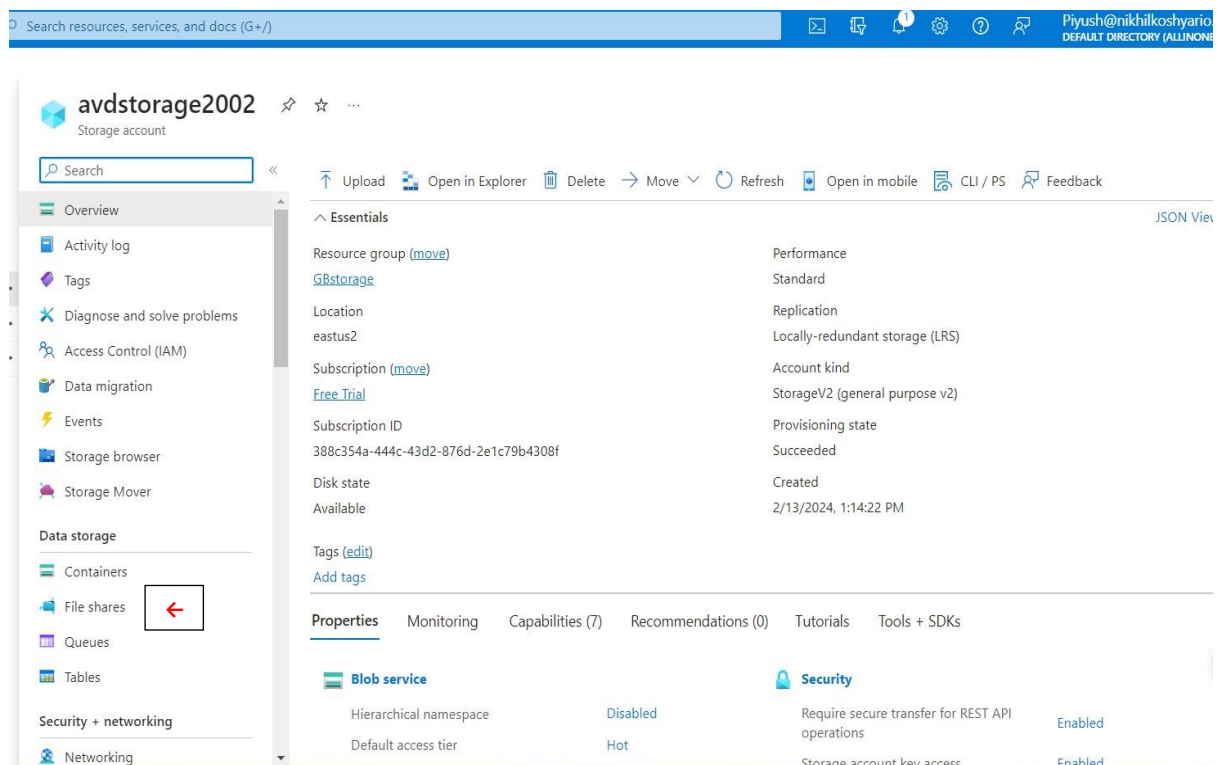


Section 4: Implementing Fslogix on AVD



2. Mount FS in VM and Config NTFS permission:

- Now Go to Azure portal, Created Storage Account
- Click to File share



Section 4: Implementing Fslogix on AVD

- Open avdfiles

Search resources, services, and docs (G+)

avdstorage2002 | File shares

Storage account

Search

File share Refresh

File share settings

Identity-based access: Configured Default share-level permissions: Disabled Soft delete: 14 days Maximum capacity: 5 TiB

Security: Maximum compatibility

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

Name	Modified	Tier	Quota
avdfiles	13/02/2024, 13:21:29	Transaction optimized	5 TiB

- Need to assign Roles in Fileshare
- Click to IAM
- And Click to ADD roles

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

Home > Storage accounts > avdstorage2002 | File shares > avdfiles

avdfiles | Access Control (IAM)

SMB File share

Search

Add Download role assignments Edit columns Refresh Remove Feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Browse

Operations

Snapshots

Backup

Check access Role assignments Roles Deny assignments Classic administrators

My access

View my level of access to this resource.

View my access

Check access

Review the level of access a user, group, service principal, or managed identity has to this resource. Learn more

Check access

Grant access to this resource

Grant access to resources by assigning a role. Learn more

Add role assignment

View access to this resource

View the role assignments that grant access to this and other resources. Learn more

View

View deny assignments

View the role assignments that have been denied access to specific actions at this scope. Learn more

View

Section 4: Implementing Fslogix on AVD

- Click to Storage Files Data SMB share Contributor

Home > Storage accounts > avdstorage2002 | File shares > avdfiles | Access Control (IAM) >

Add role assignment

Role Members Review + assign

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

Assignment type

Job function roles Privileged administrator roles

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

Storage file Type: All Category: All

Name	Description	Type	Category	Details
Storage File Data Privileged Contributor	Customer has read, write, delete and modify NTFS permission access on Azure Storage file shares.	BuiltInRole	None	View
Storage File Data Privileged Reader	Customer has read access on Azure Storage file shares.	BuiltInRole	None	View
Storage File Data SMB Share Contributor	Allows for read, write, and delete access in Azure Storage file shares over SMB	BuiltInRole	Storage	View
Storage File Data SMB Share Elevated Contributor	Allows for read, write, delete and modify NTFS permission access in Azure Storage file shares over SMB	BuiltInRole	Storage	View
Storage File Data SMB Share Reader	Allows for read access to Azure File Share over SMB	BuiltInRole	Storage	View

Showing 1 - 5 of 5 results.

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

- Click to Select member and Add all Dc created members

Home > Storage accounts > avdstorage2002 | File shares > avdfiles | Access Control (IAM) >

Add role assignment

Role **Members** Review + assign

Selected role Storage File Data SMB Share Contributor

Assign access to ☒ User, group, or service principal ☐ Managed identity

Members + Select members

Name	Object ID	Type
No members selected		

Description Optional

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

Select members

Select

AWS

No users, groups, or service principals found.

Selected members:

- AVDDomain
AVDDomain@AllinOneService.world [Remove](#)
- Azure1
Azure1@AllinOneService.world [Remove](#)
- AWS
AWS@AllinOneService.world [Remove](#)

[Select](#) [Close](#)

Section 4: Implementing Fslogix on AVD

- Same steps again Click to Storage Files Data SMB share Elevated Contributor

The screenshot shows the 'Add role assignment' page in the Microsoft Azure portal. The breadcrumb navigation is: Home > Storage accounts > avdstorage2002 | File shares > avdfiles | Access Control (IAM) >. The page title is 'Add role assignment'. Below the title, there are tabs for 'Role', 'Members', and 'Review + assign'. The 'Role' tab is selected. A description states: 'A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. Learn more'. Below this, there are tabs for 'Job function roles' and 'Privileged administrator roles'. The 'Job function roles' tab is selected. A search bar contains 'storage file'. Below the search bar, there is a table of roles. The table has columns: Name, Description, Type, Category, and Details. The roles listed are: Storage File Data Privileged Contributor, Storage File Data Privileged Reader, Storage File Data SMB Share Contributor, Storage File Data SMB Share Elevated Contributor (highlighted), and Storage File Data SMB Share Reader. Below the table, it says 'Showing 1 - 5 of 5 results.' At the bottom, there are buttons for 'Review + assign', 'Previous', and 'Next'.

Name	Description	Type	Category	Details
Storage File Data Privileged Contributor	Customer has read, write, delete and modify NTFS permission access on Azure Storage file shares.	BuiltInRole	None	View
Storage File Data Privileged Reader	Customer has read access on Azure Storage file shares.	BuiltInRole	None	View
Storage File Data SMB Share Contributor	Allows for read, write, and delete access in Azure Storage file shares over SMB	BuiltInRole	Storage	View
Storage File Data SMB Share Elevated Contributor	Allows for read, write, delete and modify NTFS permission access in Azure Storage file shares over SMB	BuiltInRole	Storage	View
Storage File Data SMB Share Reader	Allows for read access to Azure File Share over SMB	BuiltInRole	Storage	View





- Click to Select member and Add AVDDomain, Dc created members

The screenshot shows the 'Add role assignment' page in the Microsoft Azure portal. The breadcrumb navigation is: Home > Storage accounts > avdstorage2002 | File shares > avdfiles | Access Control (IAM) >. The page title is 'Add role assignment'. Below the title, there are tabs for 'Role', 'Members', and 'Review + assign'. The 'Members' tab is selected. The 'Selected role' is 'Storage File Data SMB Share Elevated Contributor'. The 'Assign access to' section has 'User, group, or service principal' selected. The 'Members' section has a '+ Select members' link. Below this, there is a table with columns: Name, Object ID, and Type. The table contains one entry: AVDDomain, 2fb97e39-f8c6-4651-9629-5aa305b72f41, User. Below the table, there is a 'Description' field with the value 'Optional'. On the right side, there is a 'Select members' dialog. The dialog has a 'Select' button and a search bar containing 'AVD'. Below the search bar, it says 'No users, groups, or service principals found.' Below this, there is a 'Selected members' section. It contains one entry: AVDDomain, AVDDomain@AllinOneService.world, with a 'Remove' button. At the bottom of the dialog, there are buttons for 'Select' and 'Close'. At the bottom of the main page, there are buttons for 'Review + assign', 'Previous', and 'Next'.

Name	Object ID	Type
AVDDomain	2fb97e39-f8c6-4651-9629-5aa305b72f41	User

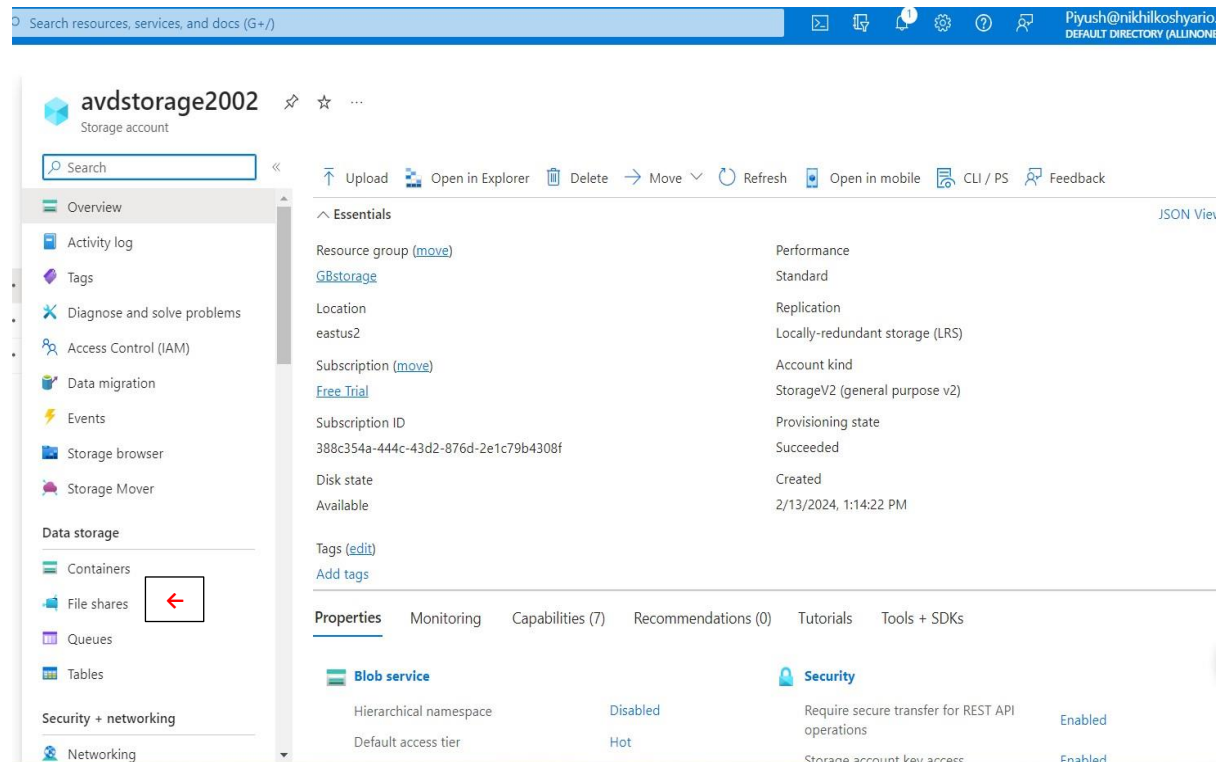
Section 4: Implementing Fslogix on AVD

- We can see all users assign Roles for Fileshare

Storage File Data SMB Share Contributor (3)					
<input type="checkbox"/>	 AVDDomain AVDDomain@AllinOneService...	User	Storage File Data SMB Share Contributor ⓘ	This resource	None
<input type="checkbox"/>	 AWS AWS@AllinOneService.world	User	Storage File Data SMB Share Contributor ⓘ	This resource	None
<input type="checkbox"/>	 Azure1 Azure1@AllinOneService.world	User	Storage File Data SMB Share Contributor ⓘ	This resource	None
Storage File Data SMB Share Elevated Contributor (1)					
<input type="checkbox"/>	 AVDDomain AVDDomain@AllinOneService...	User	Storage File Data SMB Share Elevated Contributor ⓘ	This resource	None

3. Configure Fslogix container and config ntfs

- Now Go to Azure portal, Created Storage Account
- Click to File share



The screenshot displays the Azure portal interface for a storage account named 'avdstorage2002'. The left-hand navigation pane lists various services, with 'File shares' under the 'Data storage' section highlighted by a red box and a red arrow. The main content area shows the 'Essentials' section, which includes details such as the Resource group (move), Location (eastus2), Subscription (move), Subscription ID (388c354a-444c-43d2-876d-2e1c79b4308f), Disk state (Available), and Tags (edit). Below the Essentials section, the 'Properties' tab is active, showing settings for the 'Blob service' (Hierarchical namespace: Disabled, Default access tier: Hot) and 'Security' (Require secure transfer for REST API operations: Enabled, Storage account key access: Enabled).

Section 4: Implementing Fslogix on AVD

- Open avdfiles

Search resources, services, and docs (G+)

avdstorage2002 | File shares

Storage account

Search

File share Refresh

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Data storage

Containers

File shares

Queues

Tables

Security + networking

Networking

File share settings

Identity-based access: Configured Default share-level permissions: Disabled Soft delete: 14 days Maximum capacity: 5 TiB

Security: Maximum compatibility

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

Name	Modified	Tier	Quota
avdfiles	13/02/2024, 13:21:29	Transaction optimized	5 TiB

- Click to Connect

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

Home > Storage accounts > avdstorage2002 | File shares >

avdfiles

SMB File share

Search

Connect Upload Refresh Add directory Delete share Change tier Edit quota

Overview

Diagnose and solve problems

Access Control (IAM)

Browse

Operations

Snapshots

Backup

Essentials

Storage account : avdstorage2002

Resource group (move) : GBstorage

Location : East US 2

Subscription (move) : Free Trial

Subscription ID : 388c354a-444c-43d2-876d-2e1c79b4308f

Properties Capabilities (2) Tutorials

Size

Maximum capacity : 5 TiB

Used capacity : 0 B

Tier : Transaction optimized

Performance

Maximum IO/s : 1000

Ingress rate : 60 MiB / s

Egress rate : 60 MiB / s

Connect

avdfiles

Windows Linux macOS

To connect to this Azure file share from Windows, choose from the following authentication methods and run the PowerShell commands from a normal (not elevated) PowerShell terminal:

Drive letter : Z

Authentication method

Active Directory or Microsoft Entra

Storage account key

Connecting to a share using the storage account key is only appropriate for admin access. Mounting the Azure file share with the Active Directory or Microsoft Entra identity of the user is preferred. [Learn more](#)

Hide Script

```
$connectTestResult = Test-NetConnection -ComputerName avdstorage2002.file.core.windows.net -Port 445
if ($connectTestResult.TcpTestSucceeded) {
    # Save the password so the drive will persist on reboot
    cmd.exe /C "cmdkey /add:"avdstorage2002.file.core.windows.net"
```

Give feedback

Section 4: Implementing Fslogix on AVD

- Copy that Script

Connect

avdfiles

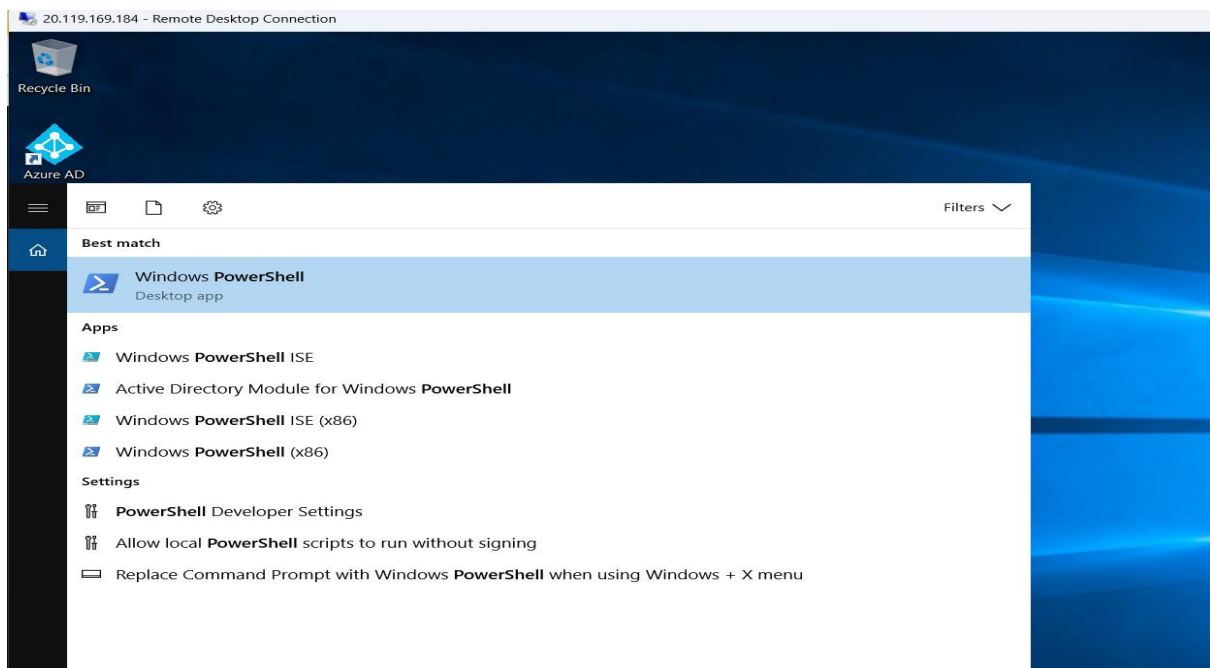
Hide Script

```
$connectTestResult = Test-NetConnection -ComputerName
avdstorage2002.file.core.windows.net -Port 445
if ($connectTestResult.TcpTestSucceeded) {
    # Save the password so the drive will persist on reboot
    cmd.exe /C "cmdkey /add:"avdstorage2002.file.core.windows.net"
/user:"localhost\avdstorage2002"
/pass:"DXOHJJscw/e9yUxk+eNNEE+3L06XULXktsMbJz/Np6QHlcUOhR95I2af
QCgh39enEK+nx0Smwysg+ASfJkdKA==""
    # Mount the drive
    New-PSDrive -Name Z -PSProvider FileSystem -Root
"\\avdstorage2002.file.core.windows.net\avdfiles" -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 Express Route 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.

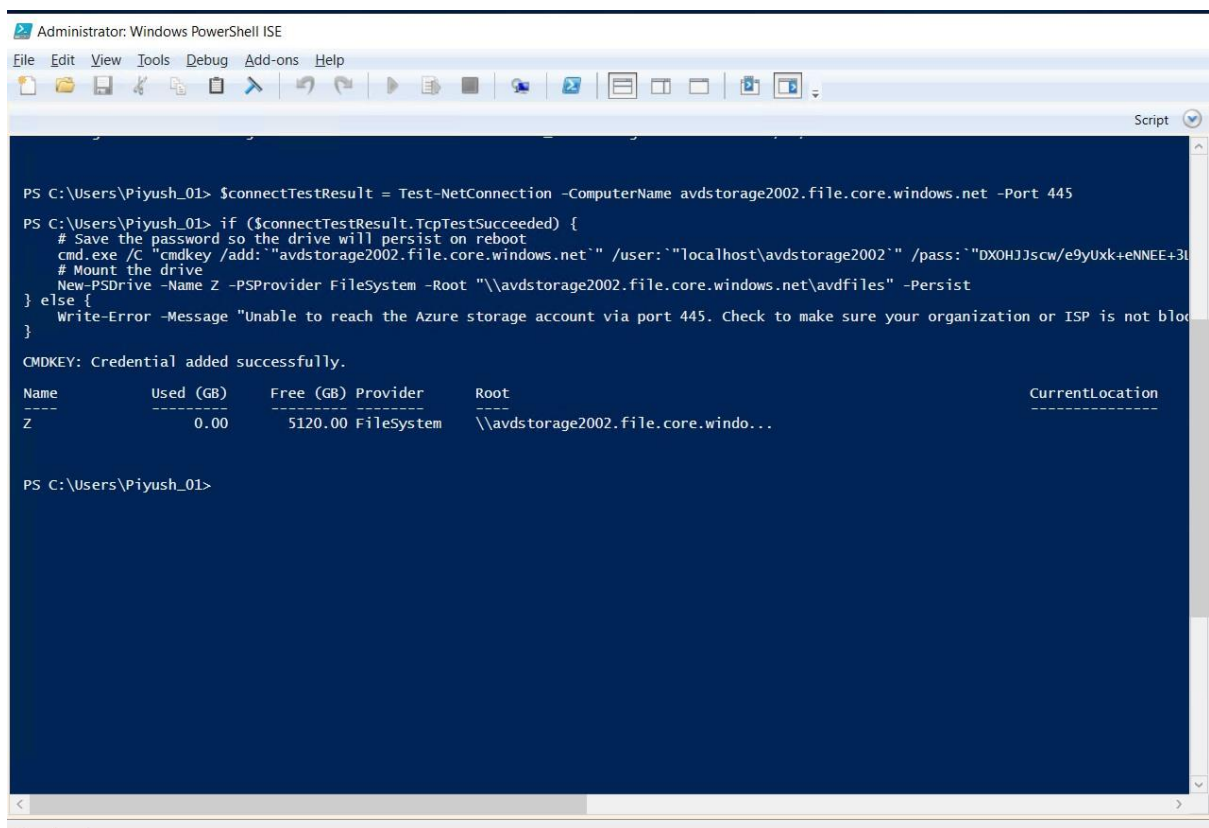
 Give feed

- Now in Windows Search menu → Search Windows PowerShell ISE
- Run as administrator



Section 4: Implementing Fslogix on AVD

- Follow this steps:



```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help

PS C:\Users\Piyush_01> $connectTestResult = Test-NetConnection -ComputerName avdstorage2002.file.core.windows.net -Port 445

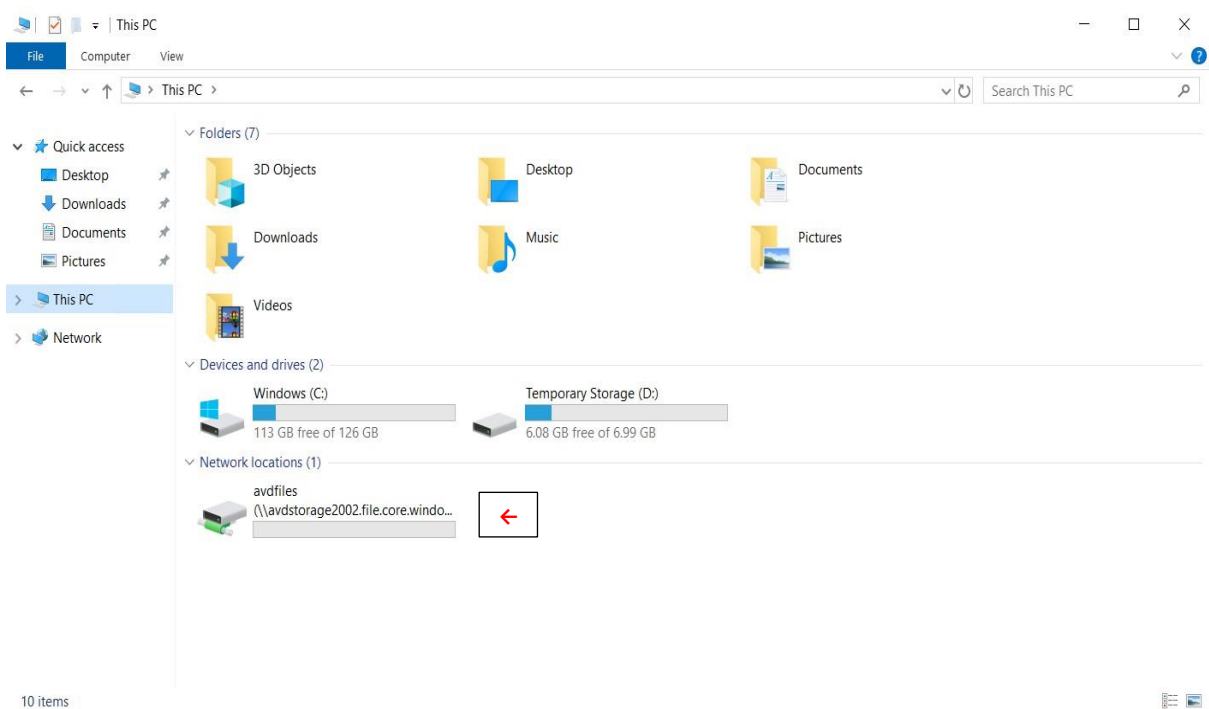
PS C:\Users\Piyush_01> if ($connectTestResult.TcpTestSucceeded) {
# Save the password so the drive will persist on reboot
cmd.exe /C "cmdkey /add: "avdstorage2002.file.core.windows.net" /user:"localhost\avdstorage2002" /pass:"DX0HJJscw/e9yUxk+eNNEE+3l
# Mount the drive
New-PSDrive -Name Z -PSProvider FileSystem -Root "\\avdstorage2002.file.core.windows.net\avdfiles" -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 block
}

CMDKEY: Credential added successfully.

Name          Used (GB)  Free (GB) Provider      Root                                          CurrentLocation
-----
Z              0.00      5120.00 FileSystem    \\avdstorage2002.file.core.windo...

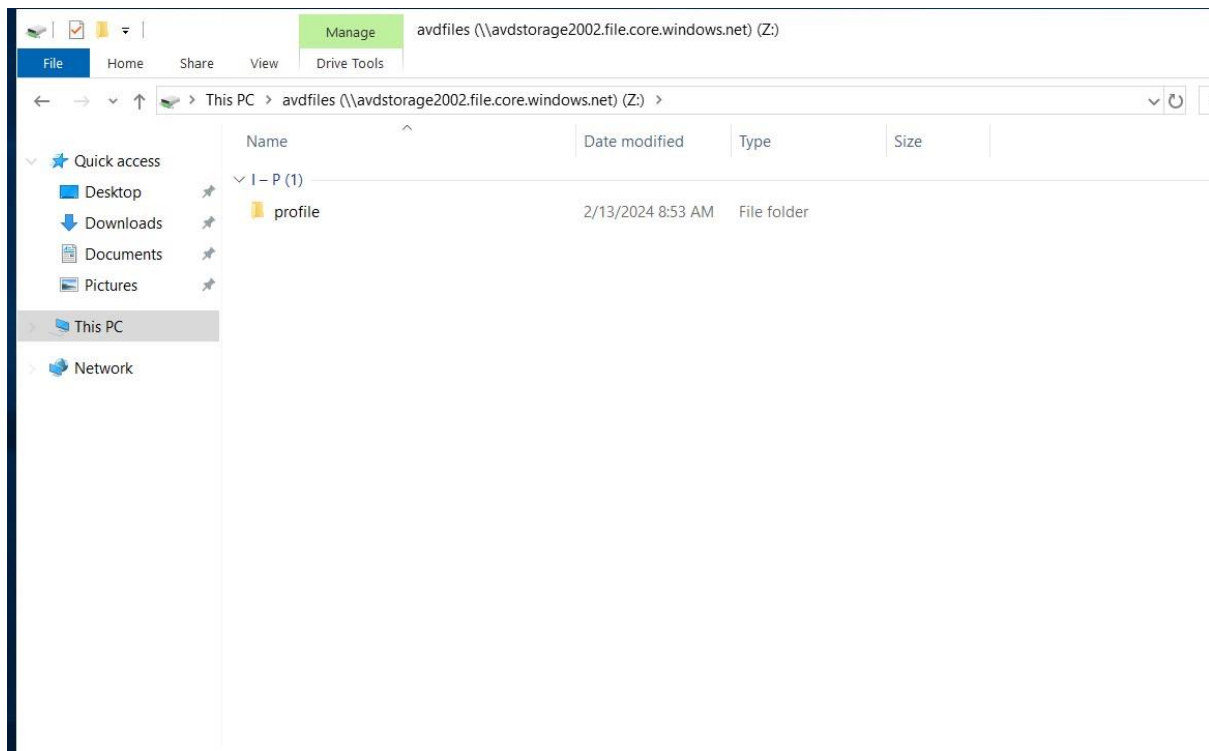
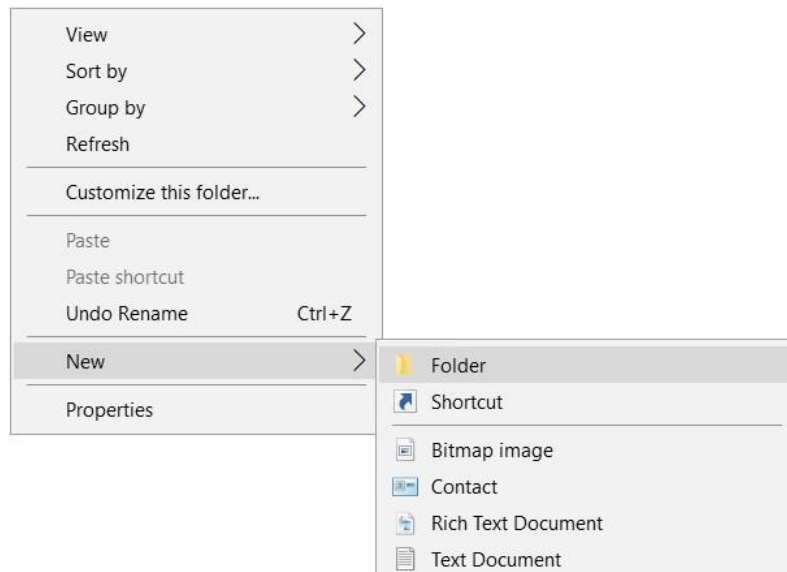
PS C:\Users\Piyush_01>
```

- Open File Manager → this PC
- We can see Fileshare Storage Z drive is available



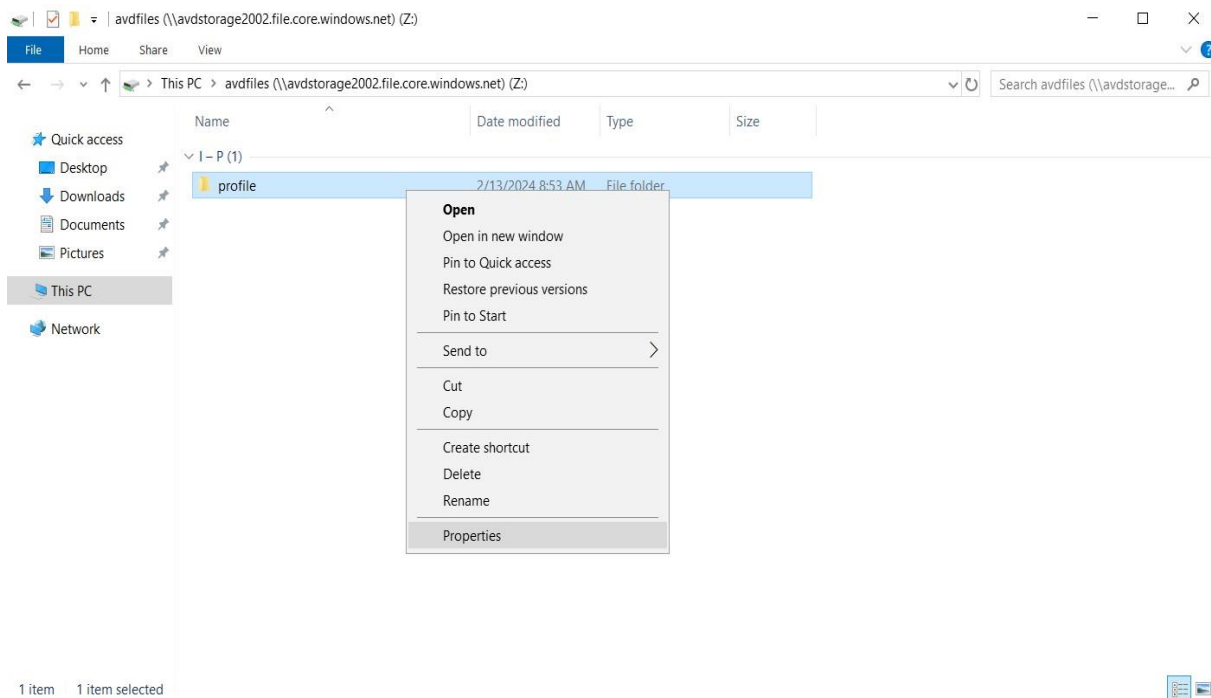
Section 4: Implementing Fslogix on AVD

- Open avdfiles drive
- Create a new Folder name profile

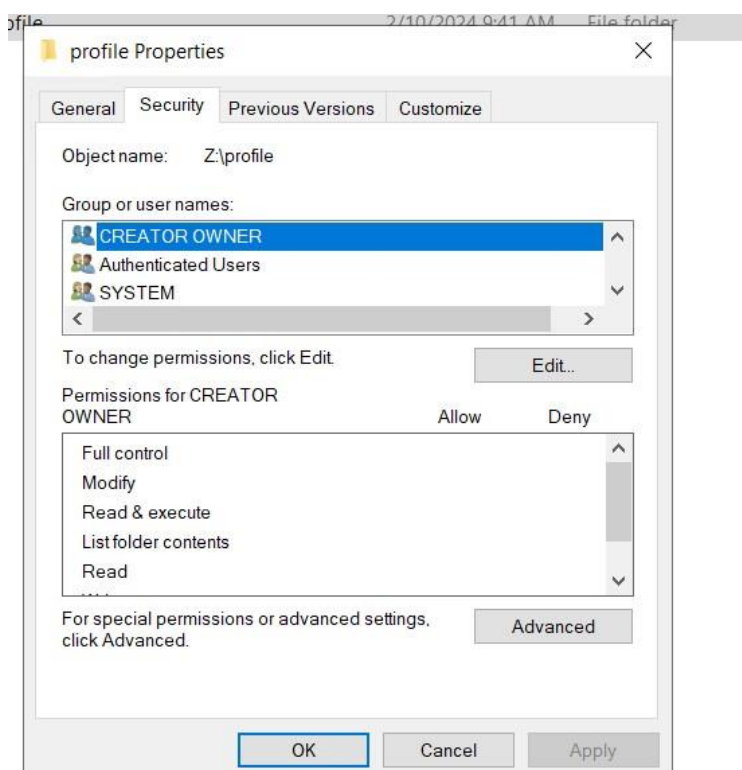


Section 4: Implementing Fslogix on AVD

- Right click that profile folder
- Select the properties option

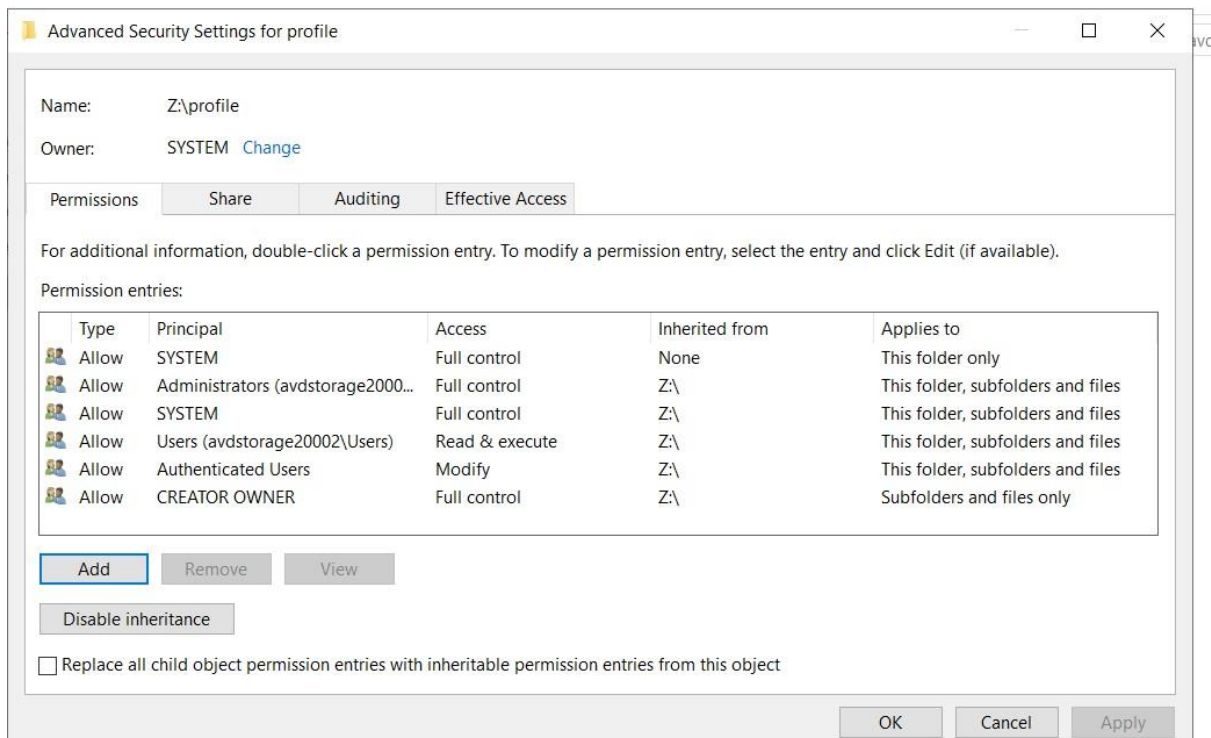


- Click to Advanced

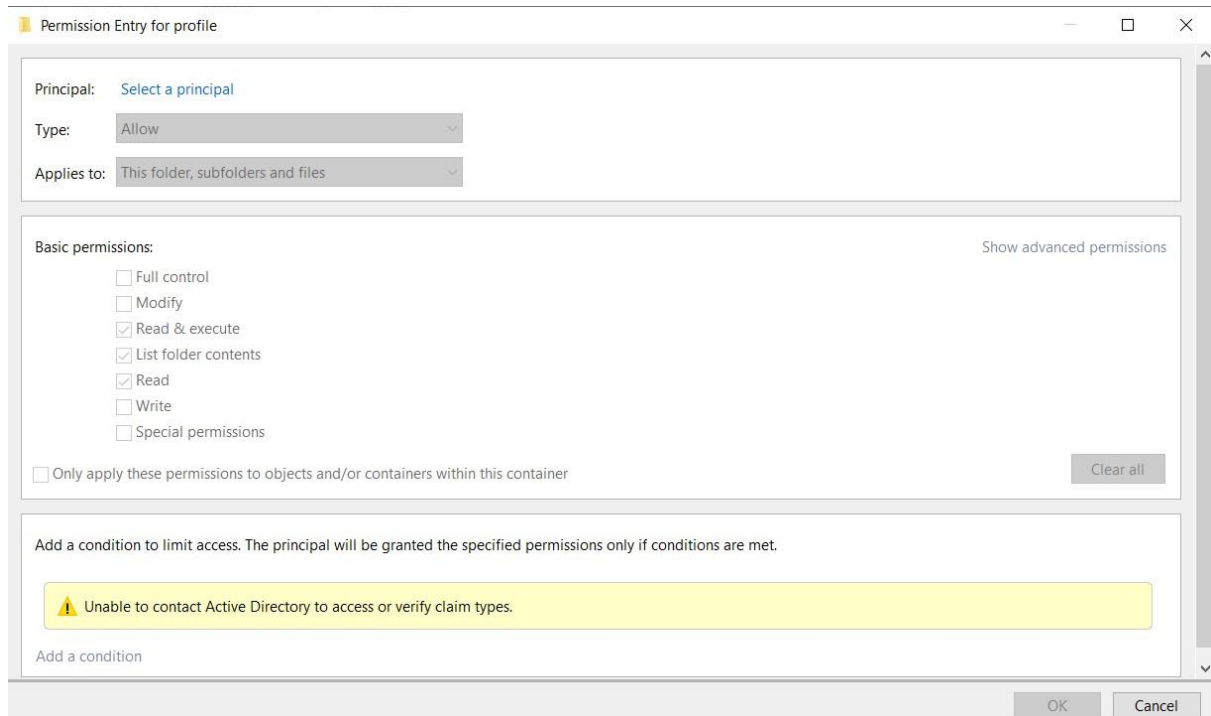


Section 4: Implementing Fslogix on AVD

- Click to Add

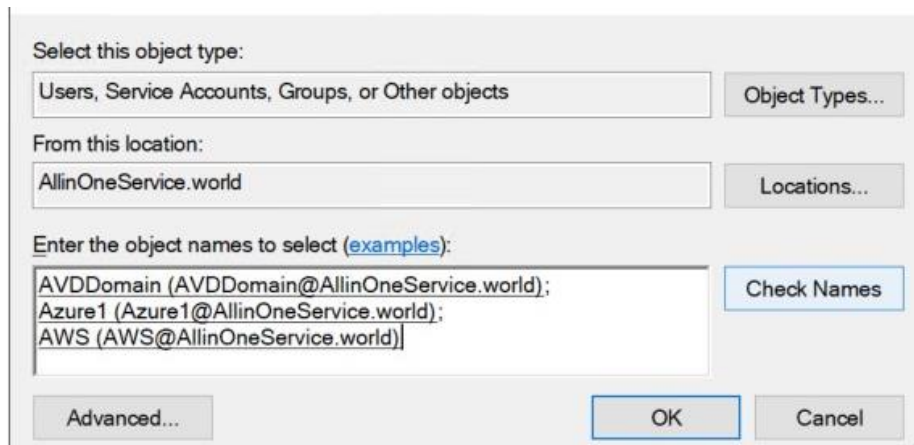


- Click Select a principal



Section 4: Implementing Fslogix on AVD

- Assign members to Access the fileshare



Select this object type:

Users, Service Accounts, Groups, or Other objects

Object Types...

From this location:

AllinOneService.world

Locations...

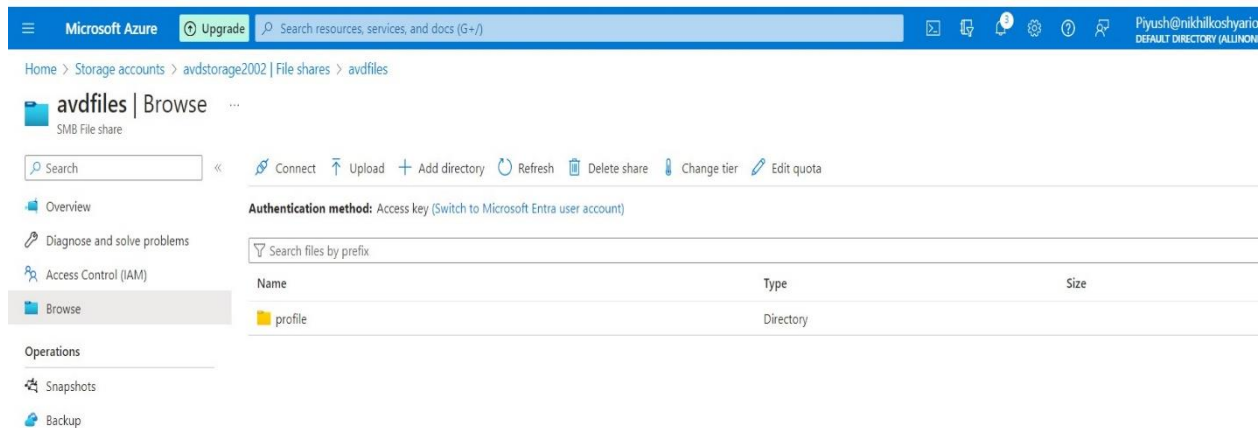
Enter the object names to select (examples):

AVDDomain (AVDDomain@AllinOneService.world);
Azure1 (Azure1@AllinOneService.world);
AWS (AWS@AllinOneService.world)

Check Names

Advanced... OK Cancel

- Now Go to Azure portal, Created Storage Account →Click to File share →open avdfiles→ Browse
- We can see created folder in VM is available in azure storage portal



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

Home > Storage accounts > avdstorage2002 | File shares > avdfiles

avdfiles | Browse ...

SMB File share

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

Overview

Diagnose and solve problems

Access Control (IAM)

Browse

Operations

Snapshots

Backup

Authentication method: Access key (Switch to Microsoft Entra user account)

Search files by prefix

Name	Type	Size
profile	Directory	

<https://portal.azure.com/#>