

Azure Virtual Desktop with Active Directory Integration

1. Introduction

1.1 Purpose of the Document

This document provides a detailed Proof of Concept (POC) for implementing **Azure Virtual Desktop (AVD)** integrated with **Active Directory Domain Services (AD DS)**. The objective is to demonstrate how users can securely access virtual desktops using both **Personal** and **Pooled Host Pools**, with centralized authentication and profile management.

1.2 Scope of the POC

The scope of this POC includes:

- Setting up a Domain Controller with a custom domain
- Creating and configuring Azure Virtual Desktop
- Implementing Personal and Pooled Host Pools
- Assigning users to host pools
- Storing user profiles in a centralized file share using FSLogix

1.3 Target Audience

- Cloud / Azure beginners
- System Administrators
- IT Infrastructure teams
- Interview or internal demo reviewers

2. POC Objective

The main objectives of this POC are:

- To deploy an Azure Virtual Desktop environment
- To authenticate users using Active Directory
- To provide dedicated desktops for specific users (Personal Host Pool)
- To provide shared desktops for multiple users (Pooled Host Pool)

- To ensure persistent user profiles using centralized storage

3. High-Level Architecture Overview

The architecture consists of:

- Azure Virtual Network
- Windows Server VM as Domain Controller
- Azure Virtual Desktop Workspace
- Personal Host Pool (1 VM)
- Pooled Host Pool (1 VM, multi-user)
- Azure Storage Account for FSLogix profiles

4. Prerequisites

- Azure Subscription
- Contributor or Owner access
- Basic knowledge of Azure Portal
- Windows Server ISO (Azure Marketplace)
- Windows 10/11 Multi-session image

5. Implementation Details

5.1 Domain Controller Setup

Description: A Windows Server VM is deployed and promoted as a Domain Controller.

Configuration Details:

- OS: Windows Server 2019
- Domain Name: g7cr.live
- Role Installed: Active Directory Domain Services (AD DS)

Backup Infrastructure - Microsoft / Create virtual network - Microsoft

https://portal.azure.com/#create/Microsoft.VirtualNetwork

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

adminakash@shwethad... SHWETHADEMOENV (SHWETHA...)

Home > Network foundation | Virtual networks >

Create virtual network

Validation passed

Basics Security IP addresses Tags Review + create

View automation template

Basics

Subscription: DU1 -DU2 MSDN
Resource Group: AVD0402
Name: vnet04021
Region: Central US

Security

Azure Bastion: Disabled
Azure Firewall: Disabled
Azure DDoS Network Protection: Disabled

Previous Next Create Download a template for automation Give feedback

Type here to search

19°C Partly sunny 10:17 ENG 09-01-2026

Backup Infrastructure - Microsoft / Create a virtual machine - Microsoft

https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

adminakash@shwethad... SHWETHADEMOENV (SHWETHA...)

Home > Compute infrastructure | Virtual machines >

Create a virtual machine

Validation passed

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 Help me create a low cost VM

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Price

1 X Standard B2s by Microsoft Subscription credits apply 4.1514 INR/hr Pricing for other VM sizes

Terms of use | Privacy policy

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 information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

< Previous Next > Create Download a template for automation Give feedback

Type here to search

19°C Partly sunny 10:21 ENG 09-01-2026

Edit IP configuration

vm0402844 | IP configurations

Network interface

Virtual network: vnet04021

Gateway load balancer: None

Subnet: subnet-DC (10.0.0.0/24) 250 free IP addresses

Type: Primary

IP version: IPv4

Allocation: Static (selected)

Private IP address: 10.0.0.4

Public IP address settings:

Name	IP Version	Type	Priority
ipconfig1	IPv4	Primary	10

Associate public IP address: vm0402-ip (132.196.56.220)

Save Cancel Give feedback

Purpose: Active Directory provides centralized authentication, authorization, and policy management for all AVD users and session hosts.

5.2 Active Directory User Creation

Description: Multiple users are created in Active Directory for testing access.

Example Users:

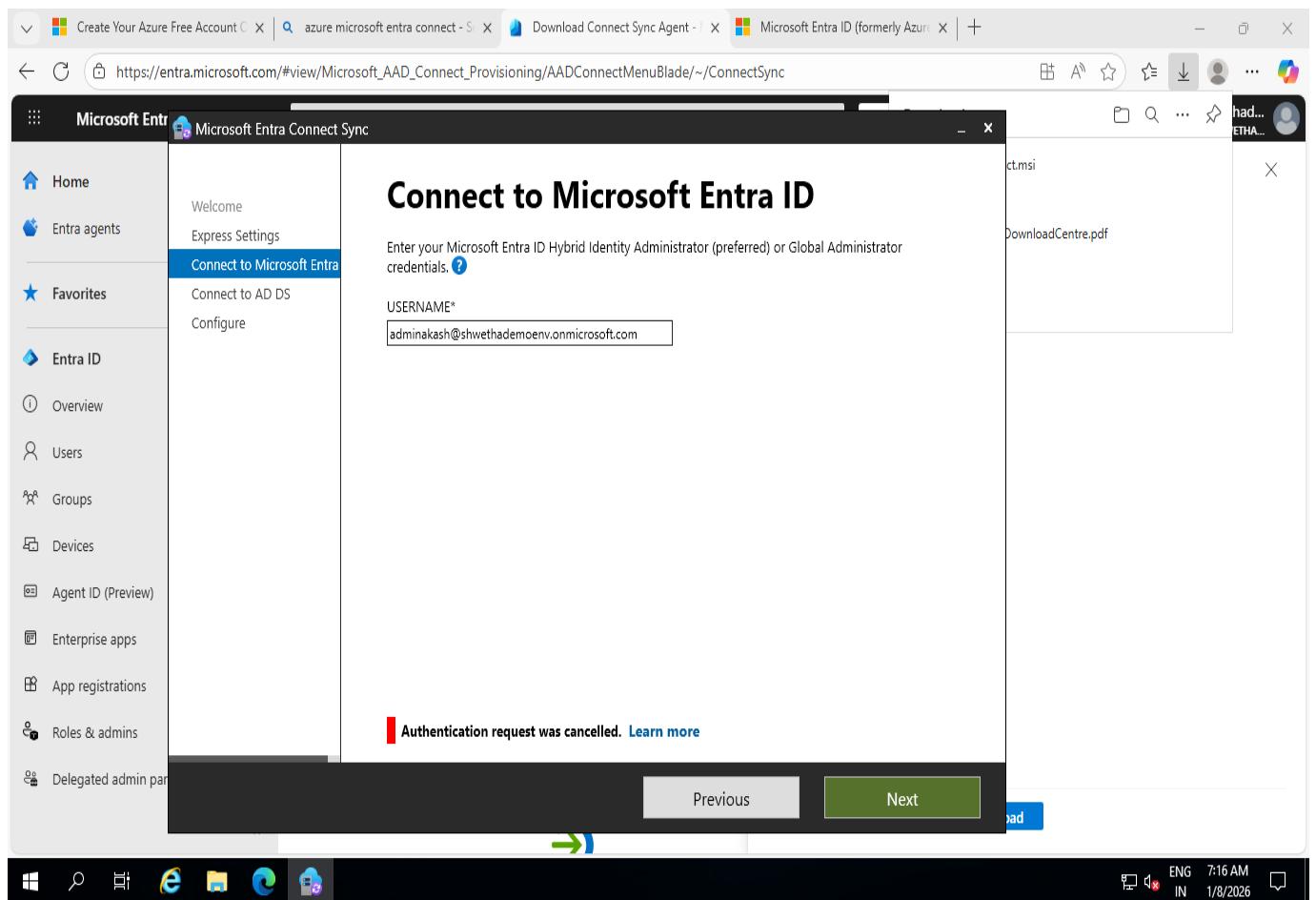
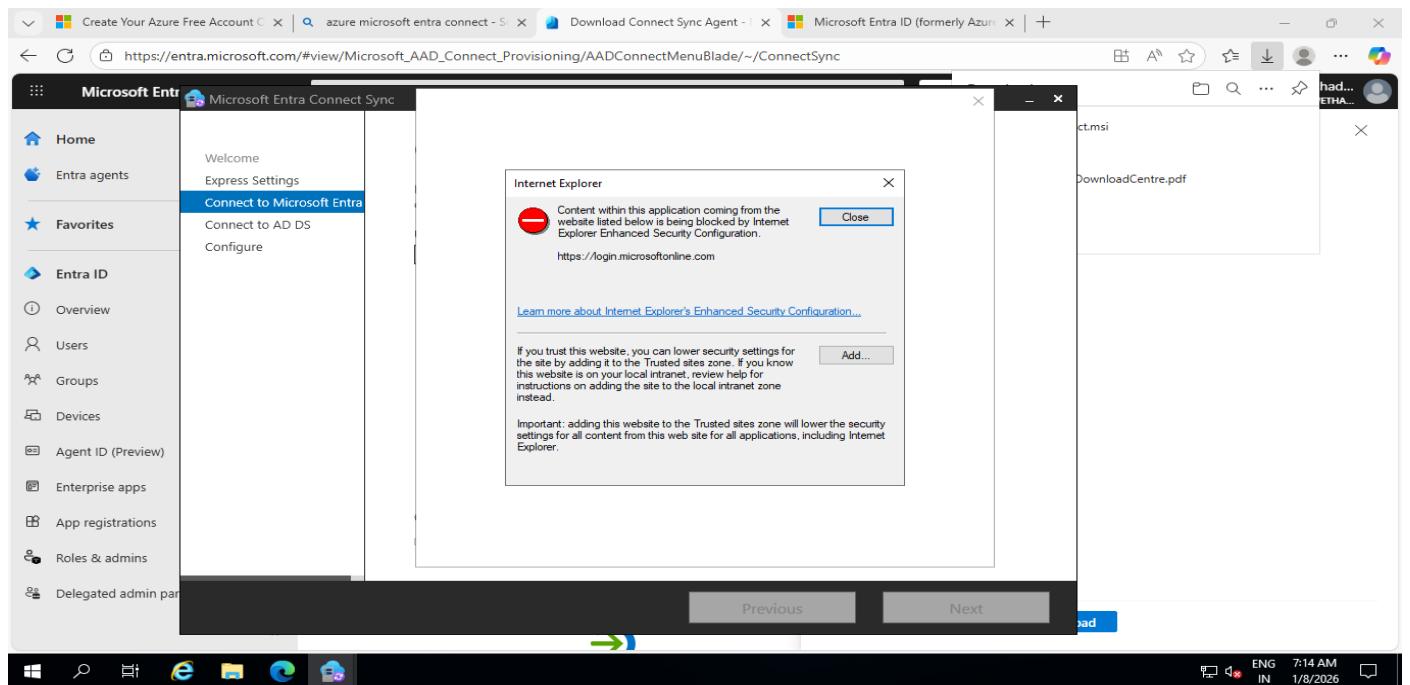
- user1@g7cr.live
- user2@g7cr.live
- user3@g7cr.live
- user4@g7cr.live

Purpose: These users will be assigned to Personal and Pooled Host Pools to validate access control.

After creating the AD user sync the use by using Microsoft Entra Connect

The screenshot shows the Microsoft Entra admin center interface. On the left, there's a navigation sidebar with various options like Home, Entra agents, Favorites, Entra ID, Overview, Users, Groups, Devices, Agent ID (Preview), Enterprise apps, App registrations, Roles & admins, and Delegated admin partners. The main content area is titled "Microsoft Entra Connect | Connect Sync". It features a "PROVISION FROM ACTIVE DIRECTORY" section for "Microsoft Entra Connect sync", showing sync status as "Enabled" and last sync as "Less than 1 hour ago". There's also a link to "Download the latest Entra Connect Sync Version". Below this is a section titled "Is Cloud Sync the right solution for you?", which includes a "View Comparison chart" button. At the bottom of the main content area, it says "USER SIGN-IN" and shows "Federation" status as "Disabled" with "0 domains". The browser address bar shows the URL: https://entra.microsoft.com/#view/Microsoft_AAD_Connect_Provisioning/AADConnectMenuBlade/~/ConnectSync.

The screenshot shows the Microsoft Entra Connect Sync setup wizard. The left sidebar has the same navigation as the previous screen. The main area is titled "Express Settings". It says: "If you have a **single** Windows Server Active Directory forest, we will do the following:" followed by a bulleted list: • Configure synchronization of identities in the current AD forest of G7CR • Configure password hash synchronization from on-premises AD to Microsoft Entra ID • Start an initial synchronization • Synchronize all attributes • Enable Auto Upgrade. Below this is a link "[Learn more about express settings](#)". A note says "Select Customize to choose advanced deployment options or import settings from an existing server." At the bottom, it says "Installing required components." with a progress bar. There are "Customize" and "Use express settings" buttons. A green arrow points to the "Use express settings" button. The browser address bar shows the URL: https://entra.microsoft.com/#view/Microsoft_AAD_Connect_Provisioning/AADConnectMenuBlade/~/ConnectSync. The taskbar at the bottom shows the date and time as 1/8/2026 7:12 AM.



The screenshot shows the 'Microsoft Entra Connect Sync' configuration interface. On the left, a sidebar lists various options like Home, Entra agents, Favorites, and Entra ID. The 'Connect to AD DS' option is selected and highlighted in blue. The main content area is titled 'Connect to AD DS' and prompts for 'Active Directory Domain Services enterprise administrator credentials'. It includes fields for 'USERNAME' (G7CR.LIVE\sameekshay) and 'PASSWORD' (redacted). Below the fields are 'Previous' and 'Next' buttons, with a large green 'Install' button at the bottom right.

The screenshot shows the 'Ready to configure' step of the setup process. The 'Configure' option in the sidebar is selected. The main content area is titled 'Ready to configure' and states: 'Once you click Install, we will do the following:' followed by a bulleted list of tasks: 'Install the synchronization engine', 'Configure Microsoft Entra ID Connector', 'Configure g7cr.live Connector', 'Enable Password hash synchronization', 'Enable Auto Upgrade', and 'Configure synchronization services on this computer'. There is also a checked checkbox for 'Start the synchronization process when configuration completes.' A note at the bottom states: 'The last Microsoft Entra ID synchronization happened at 7:13 AM. To avoid synchronization conflicts, do not deploy more than one active server. [Learn more about Microsoft Entra ID synchronization](#)'.

The screenshot shows a Microsoft Edge browser window with multiple tabs open. The active tab is titled 'Microsoft Entra Connect Sync' and displays a success message: 'Configuration complete'. It states that configuration succeeded and synchronization has been initiated. The page provides several tips and links for next steps, such as enabling the Active Directory Recycle Bin, configuring Trusted Platform Module (TPM), and setting the source anchor attribute. A sidebar on the left lists various Microsoft Entra services like Home, Agents, Favorites, and Delegated admin partners. The taskbar at the bottom shows icons for File Explorer, Microsoft Edge, Task View, and Start.

Microsoft Entra Connect Sync

Configuration complete

Microsoft Entra Connect Sync configuration succeeded. The synchronization process has been initiated.

The configuration is complete. You can now log in to the Azure or Office 365 portal to verify that user accounts from your local directory have been created. Then, do a test sign-on to the Azure portal. [Learn more about the next steps and managing Microsoft Entra Connect Sync](#)

The Active Directory Recycle Bin is not enabled for your forest (`g7cr.live`) and is strongly recommended. [Learn more about enabling the Active Directory Recycle Bin](#)

We strongly recommend you configure Trusted Platform Module (TPM) in the server to make your Microsoft Entra Connect Sync setup even more secure. [Learn more](#)

Microsoft Entra ID is configured to use AD attribute `mS-DS-ConsistencyGuid` as the source anchor attribute. [Learn more about configuring the source anchor attribute](#)

Previous Exit

had... ETHA_

ct.msi

DownloadCentre.pdf

The screenshot shows the Microsoft Entra admin center interface. The left sidebar includes links for Home, Entra agents, Favorites, Overview, Users, Groups, Devices, Agent ID (Preview), Enterprise apps, App registrations, Roles & admins, and Delegated admin partners. The main content area is titled "Microsoft Entra Connect | Connect Sync > Users". A search bar at the top right contains the placeholder "Search resources, services, and docs (G+ /)". Below the search bar are icons for Copilot, Notifications, Settings, Help, and a user profile for "adminakash@shwethademo...". The main content area displays a list of users under the heading "All users". The list includes columns for Display name, User principal name, User type, Is Agent, and On-prem. The first few entries are: Rishabh pooled2 (User principal name: rishabhpooled2@...), sam01-personal (User principal name: sam01-personal@...), sam02-personal (User principal name: sam02-personal@...), sammu01-pooled (User principal name: sammu01-pooled@...), sammu02-pooled (User principal name: sammu02-pooled@...), sammu03-pooled (User principal name: sammu03-pooled@...), and sarash-personal1 (User principal name: sarash-personal1@...).

The screenshot shows the Microsoft Entra admin center interface. The left sidebar has a 'Favorites' section with 'Entra ID' expanded, showing options like Overview, Users, Groups, Devices, Agent ID (Preview), Enterprise apps, App registrations, Roles & admins, and Delegated admin partners. The main content area is titled 'Users' under 'Microsoft Entra Connect | Connect Sync'. It shows a list of users with the following columns: Display name, User principal name, User type, Is Agent, and On-premises. There are 89 users found. One user, 'Rishabh pooled2', is highlighted with a pink circle and a blue border.

Display name	User principal name	User type	Is Agent	On-premises
Rishabh pooled2	rishabhpoole...@...	Member	No	Yes
sam01-personal	sam01-personal@...	Member	No	Yes
sam02-personal	sam02-personal@...	Member	No	Yes
sammu01-pooled	sammu01-pooled...	Member	No	Yes
sammu02-pooled	sammu02-pooled...	Member	No	Yes
sammu03-pooled	sammu03-pooled...	Member	No	Yes
sarash-personal1	sarash-personal1...	Member	No	Yes

5.3 Azure Virtual Desktop Workspace

Description: An Azure Virtual Desktop workspace is created to present desktops to users.

Purpose: The workspace acts as a container that connects users to host pools and published desktops.

The screenshot shows the Microsoft Azure portal with the search bar set to 'Azure Virtual Desktop - Microsoft Azure'. The left sidebar has sections for Overview, Quickstart, Manage (Host pools, Application groups, Workspaces, App attach, Scaling plans, Users, Custom image templates), Monitoring, and Licensing. The main content area is titled 'Azure Virtual Desktop' and shows a callout for 'Akash, create a host pool!' with the text: 'Easily scale your VM deployment. Create host pools to easily manage assignments, application groups, and settings for your entire organization.' Below this are sections for 'Help and learning' with links to Product documentation, Create your image, Cost calculator, and Profile containers.

https://portal.azure.com/#view/Microsoft_Azure_WVD/HostpoolBlade/_provisioningContext~/%7B*initialValues%3A%7B*subscriptionIds%3A%5B*f5c95ff8-4600...

Create a host pool

Validation passed.

Basics Session hosts Workspace Management Tags Review + create

Basics

Subscription	DU1 -DU2 MSDN
Resource group	AVD0402
Host pool name	hostpooled0402
Location	Central US
Preferred app group type	Desktop
Host pool type	Pooled
Create Session Host Configuration	No
Max session limit	10
Load balancing algorithm	Breadth-first

Networking

Create < Previous Download a template for automation

https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/_/overview/id/%2Fsubscriptions%2Fd6118b73-2de3-4f0e-b66e-6efdea4925f8%2FresourceGroups%2FHostPool-f53afb50-1ae6-4387-8edb-fcd9935cf26f%2Fdeployments%2FDeployment-1

HostPool-f53afb50-1ae6-4387-8edb-fcd9935cf26f-deployment | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview

Deployment is in progress

Deployment name: HostPool-f53afb50-1ae6-4387-8edb-fcd9935cf26f-deployment Start time: 1/8/2026, 5:17:18 PM
Subscription: DU1 -DU2 MSDN Correlation ID: f13b7a83-0dfc-488c-af05-8d92fbf
Resource group: AVD0402

Deployment details

Resource	Type	Status	Operation details
vmCreation-linkedTemplate	Microsoft.Resources/deployments	Created	Operation details
Workspace-linkedTemplate	Microsoft.Resources/deployments	OK	Operation details
hostpooled0402-DAG	Microsoft.DesktopVirtualization/hostpools	Created	Operation details
hostpooled0402	Microsoft.DesktopVirtualization/hostpools	Created	Operation details

Add or remove favorites by pressing Ctrl+Shift+F

Microsoft Defender for Cloud
Secure your apps and infrastructure
[Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials
[Start learning today >](#)

Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
[Find an Azure expert >](#)

HostPool-f53afb50-1ae6-4387-8edb-fcd9935cf26f-deployment | Overview

Deployment succeeded

Deployment 'HostPool-f53afb50-1ae6-4387-8edb-fcd9935cf26f-deployment' to resource group 'AVD0402' was successful.

Go to resource | Go to resource group

Deployment name: HostPool-f53afb50-1ae6-4387-8edb-fcd9935cf26f-deployment

Subscription: DU1 -DU2 MSDN

Resource group: AVD0402

Start time: 1/8/2026, 5:17:18 PM

Correlation ID: f13b7a83-0dfc-488c-af05-8d92fb

Your deployment is complete

Deployment details

Next steps

Manage application groups Recommended

Manage session hosts Recommended

Manage user assignments Recommended

Go to resource

Add or remove favorites by pressing **Ctrl+Shift+F**

Type here to search

Windows Start button

24°C

17:25

08-01-2026

ENG

Microsoft Defender for Cloud

Free Microsoft tutorials

Work with an expert

5.4 Personal Host Pool Configuration

Description: A Personal Host Pool is created with one dedicated virtual machine.

Configuration:

- **Host Pool Type: Personal**
- **Assignment Type: Direct**
- **Number of VMs: 1**
- **Domain Joined: Yes (g7cr.live)**

Purpose: Personal host pools are used when a user requires a dedicated, persistent desktop.

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with various links like 'New to Azure', 'Gemini', 'avd0402', 'Setup', 'Enable', 'avd0402', 'avd az', 'What is FSLOG', 'avd fs', 'Deploy', 'remote', 'Connect', 'Remote', and a '+' button. Below the navigation bar is the Microsoft Azure logo and a search bar with the placeholder 'Search resources, services, and docs (G+)'. On the right side of the header, there's a Copilot icon, a profile picture for 'adminakash@shwethademoenv.onmicrosoft.com', and the name 'SHWETHADEMOENV (SHWETHA...)'. The main content area shows the 'hostpool0402' Host pool details. The left sidebar has a tree view with 'Overview' selected, and other options like 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Resource visualizer', 'Settings', 'Manage', 'Application groups', 'Session hosts', and 'Applications'. The 'Virtual machines' section shows summary statistics: Total machines (1), Can connect (1), Can't connect (0), Active sessions (0), Disconnected sessions (0), Pending sessions (0), and Total sessions (0). At the bottom, there's a taskbar with a search bar, pinned icons for File Explorer, Task View, Settings, Microsoft Edge, Microsoft Store, Mail, People, and Photos, and system status icons for battery level (24%), temperature (24°C), signal strength, and network connection. The date and time are shown as 08-01-2026 17:28.

5.5 Pooled Host Pool Configuration

Description: A Pooled Host Pool is created with one VM shared by multiple users.

Configuration:

- **Host Pool Type: Pooled**
- **Load Balancing: Breadth-first**
- **Number of VMs: 1**
- **Users Assigned: 3-4**

Purpose: Pooled host pools are cost-effective and suitable for shared workloads.

The screenshot shows the Microsoft Azure portal interface. The URL in the address bar is <https://portal.azure.com/#/resource/subscriptions/d6118b73-2de3-4f0e-b66e-6efdea4925f8/resourceGroups/AVD0402/providers/Microsoft/AzureVirtualDesktop/hostpools/hostpooled0402/applicationGroups/hostpooled0402-DAG/assignments>. The page title is "hostpooled0402-DAG - Assignments". The main content area displays a table of assignments:

Display name	Email address	Assigned VM
AVD-USER	AVDUSER@shwethademoenv.onmicrosoft.com	0
sammu01-pooled	sammu01-pooled@g7cr.live	0
sammu02-pooled	sammu02-pooled@g7cr.live	0
sammu03-pooled	sammu03-pooled@g7cr.live	0

A note at the top of the table says: "Setup email discovery to help your users discover their resources using an email address instead of the deployment URL. [Learn more](#)".

The screenshot shows a Microsoft Edge browser window with the URL <https://client.wvd.microsoft.com/arm/webclient/index.html>. The browser tab is titled "SessionDesktop". A modal dialog box is displayed in the center of the screen, prompting for credentials:

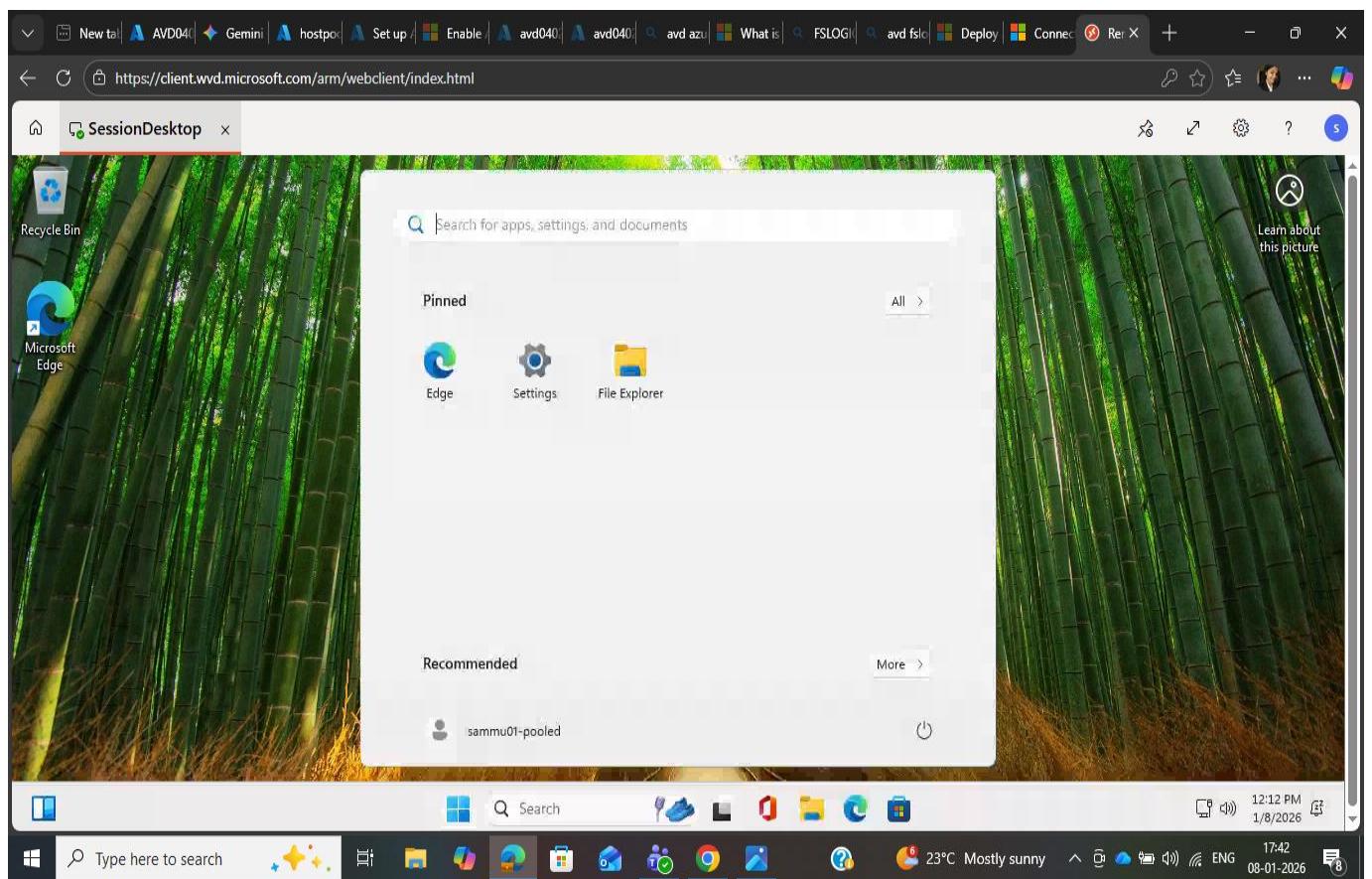
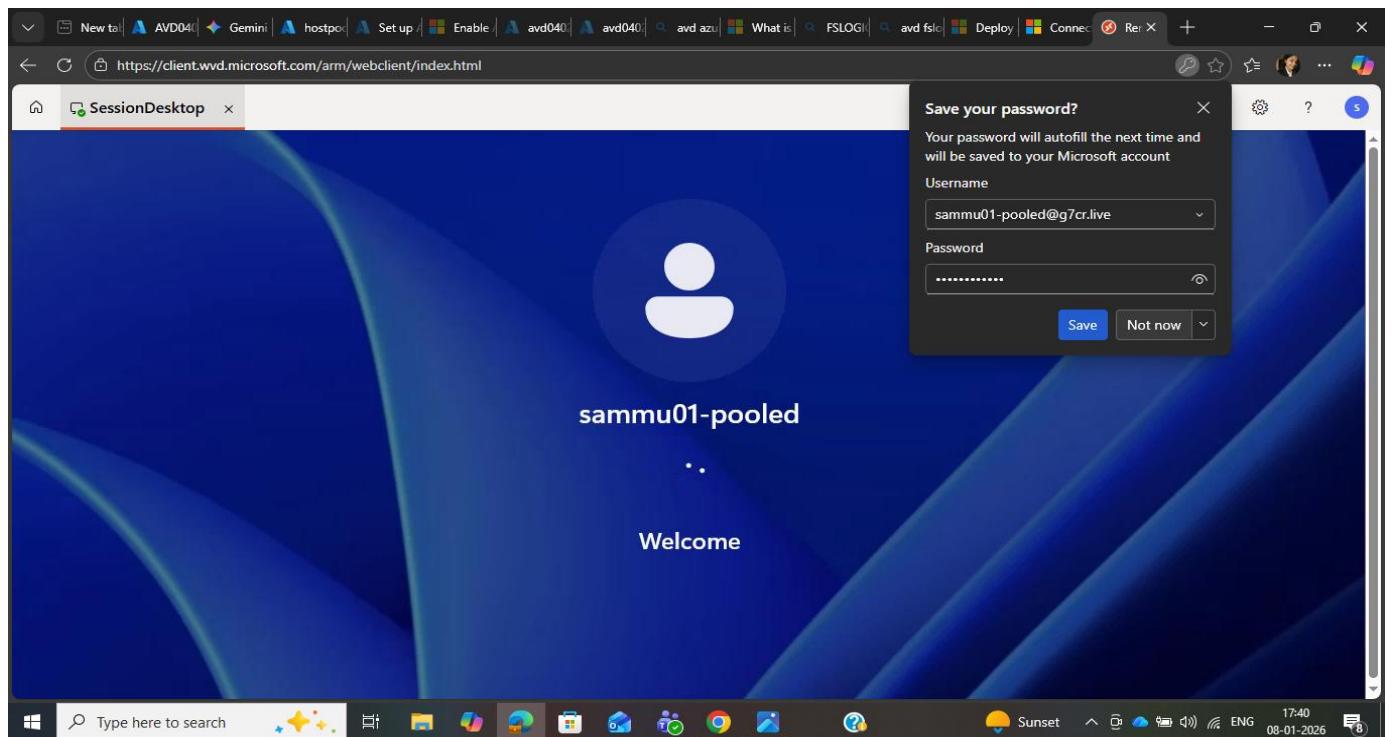
Enter your credentials

Username: sammu01-pooled@g7cr.live

Password: (empty field)

Submit Cancel

The background of the browser shows a Windows desktop environment with various pinned icons and a taskbar at the bottom.



5.6 User Profile Management using FSLogix

Description: FSLogix is configured to store user profiles in a centralized Azure File Share.

Configuration:

- **Storage Type: Azure Files**
- **Profile Path: \storageaccount.file.core.windows.net\fslogix-profiles**

Purpose: Ensures user profiles persist across sessions and logins, especially in pooled environments.

The screenshot shows the Microsoft Azure portal interface for creating a new file share. The main page title is "New file share" under the "File shares" section of the "store0402" resource group. The "Basics" tab is selected, displaying the following configuration:

- File share name: fslogixfile0402
- Access Tier: Premium
- Provisioned storage (GiB): 100
- Protocol: SMB

The "Backup" tab shows the following settings:

- Vault name: (new) vault-mk588r10
- Backup policy: (new) DailyPolicy-mk588rap
- Policy details:
 - Backup frequency: Daily at 7:30 PM UTC
 - Retention of daily backup point: 30 days

At the bottom of the page, there are "Create" and "Next >" buttons, along with links for "Download a template for automation" and "Give feedback".

A "Notifications" sidebar on the right displays several recent events:

- Deployment succeeded**: Deployment 'store0402_1767863202785' to resource group 'AVD0402' was successful. (4 minutes ago)
- Successfully restarted virtual machine**: Successfully restarted the virtual machine 'AVD0402-vm'. (23 minutes ago)
- Deleted resource group AVD0402**: Deleted resource group AVD0402. (3 hours ago)
- Deployment succeeded**: Deployment 'AVD0402-vnet-1767851818446' to resource group 'AVD0402' was successful. (3 hours ago)

The taskbar at the bottom of the screen includes the Windows Start button, a search bar, pinned application icons (File Explorer, Task View, Settings, Microsoft Edge, File History, Task Scheduler, Task Manager, and others), and system status indicators (battery level, signal strength, and date/time).

Microsoft Azure

https://portal.azure.com/#view/Microsoft_Azure_AD/AddRoleAssignmentsLandingBlade/scope/%2Fsubscriptions%2Fd6118b73-2de3-4f0e-b66e-6efdea4925f8%2F...

Home > Storage center | Blob Storage > store0402 | File shares > fslogixfile0402 | Access Control (IAM) >

Add role assignment

Role Members Conditions Review + assign

Role Storage File Data SMB Share Contributor

Scope /subscriptions/d6118b73-2de3-4f0e-b66e-6efdea4925f8/resourceGroups/AVD0402/providers/Microsoft.Storage/storageAccounts/store0402/fileServices/default/fileshares/fslogixfile0402

Members	Name	Object ID	Type
sammu01-pooled	41f7ec4d-04bb-45ab-99da-d606563bd2a2	User	
sammu02-pooled	276169af-9cf3-4c30-a7ca-dee7741efcb0	User	
sammu03-pooled	c84461bf-76e1-4727-a921-b543e6373fa5	User	

Description No description

Review + assign Previous Next Feedback

rkmprofiles - Microsoft Edge

Set up Active Directory - Microsoft Edge

New tab

Azure login error - Microsoft Edge

Releases - Azure - Microsoft Edge

New tab

rkmc-dcvm - 4.197.152.58:3389 - Remote Desktop Connection

Administrator: PowerShell 7 (x64)

```
PS C:\Users\rkm-vm1> Import-Module AzFilesHybrid

Do you want to run software from this untrusted publisher?
File C:\Program Files\WindowsPowerShell\Modules\AzFilesHybrid\AzFilesHybrid.ps1 is published by CN=Microsoft Corporation, O=Microsoft Corporation, L=Redmond, S=Washington, C=US and is not trusted on your system. Only run scripts from trusted publishers.
[?] Never run [D] Do not run [R] Run once [A] Always run [?] Help (default is "D"): r
PS C:\Users\rkm-vm1> Join-AzStorageAccount -ResourceGroupName "rkmc-avdrg-rg" -StorageAccountName "rkmcstgaccavdrg" -Domain "g7cr.live"
Get-AzResourceGroup: Run Connect-AzAccount to login.
PS C:\Users\rkm-vm1> Connect-AzAccount
Please select the account you want to login with.

WARNING: Unable to acquire token for tenant 'organizations' with error 'InteractiveBrowserCredential authentication failed: User canceled authentication.'
WARNING: Please run 'Connect-AzAccount -DeviceCode' if browser is not supported in this session.
Connect-AzAccount: InteractiveBrowserCredential authentication failed: User canceled authentication.
PS C:\Users\rkm-vm1> Connect-AzAccount
Please select the account you want to login with.

Retrieving subscriptions for the selection...
WARNING: To override which subscription Connect-AzAccount selects by default, use `Update-AzConfig -DefaultSubscriptionForLogin 00000000-0000-0000-000000000000` . Go to https://go.microsoft.com/fwlink/?linkid=2200610 for more information.
[Tenant and subscription selection]
```

No	Subscription name	Subscription ID	Tenant name
10 item	> Learning PowerShell		Latest Preview release:

Download PDF

- PowerShell-7.6.0-preview.6-win-x64.msi
- PowerShell-7.6.0-preview.6-win-x86.msi

Customise Chrome

rkmdcvm - 4.197.152.58:3389 - Remote Desktop Connection

Administrator: PowerShell 7 (x64)

```
With the new Azure PowerShell login experience, you can select the subscription you want to use more easily. Learn more about it and its configuration at https://go.microsoft.com/fwlink/?linkid=2271909.

If you encounter any problem, please open an issue at: https://aka.ms/azpsissue

Subscription name: Tenant
DU1 - DU2 MSDN      shwethademoenv

PS C:\Users\rkm-vm1> Join-AzStorageAccount -ResourceGroupName "rkmdcvm" -StorageAccountName "rkmdcvm" -Domain "g7cr.live"

StorageAccountName ResourceGroupName PrimaryLocation SkuName Kind AccessTier CreationTime ProvisioningState
rkmdcvm          rkm-avdrgrg       australieast Standard_LRS StorageV2 Hot    1/9/2026 5:28:42 AM Succeeded

PS C:\Users\rkm-vm1> Test-NetConnection -ComputerName rkmdcvm.file.core.windows.net -CommonTCPPort SMB

ComputerName : rkmdcvm.file.core.windows.net
RemoteAddress : 20.60.183.230
RemotePort   : 445
InterfaceAlias : Ethernet
SourceAddress : 10.0.0.4
TcpTestSucceeded : True

PS C:\Users\rkm-vm1>
```

Latest Preview release:

- PowerShell-7.6.0-preview.6-win-x64.msi
- PowerShell-7.6.0-preview.6-win-x86.msi

rkmdcvm - 4.197.152.58:3389 - Remote Desktop Connection

Administrator: PowerShell 7 (x64)

```
Connect-AzAccount: InteractiveBrowserCredential authentication failed: User canceled authentication.
PS C:\Users\rkm-vm1> Connect-AzAccount
Please select the account you want to login with.

Retrieving subscriptions for the selection...
WARNING: To override which subscription Connect-AzAccount selects by default, use `Update-AzConfig -DefaultSubscriptionForLogin 00000000-0000-0000-0000-000000000000`. Go to https://go.microsoft.com/fwlink/?linkid=2200610 for more information.
[ Tenant and subscription selection]

No     Subscription name           Subscription ID          Tenant name
---   -----
[1]   Akash-MSDN                 f5c95ff8-4600-41d4-b161-43f01ecd001a  shwethademoenv
[2]   DU1 - DU2 MSDN               d6118b73-2de3-4f0e-b66e-6efdea4925f8  shwethademoenv
[3]   G7CR-SMC                   93926799-8691-4d62-9a6c-339c6e765a47  shwethademoenv
[4]   shwetha-2-MSDN              a505c554-063e-442f-9fc1-f7715b12fa68  shwethademoenv
[5]   shwetha-MSDN                c77b9fa2-989b-45da-b397-0164b8b29ea4  shwethademoenv
[6]   Shwetha-MSDN                22b087a3-2f0c-4912-b96b-da3232f1332a  shwethademoenv
[7]   Shwetha3-MSDN               b330b0da-15c4-4935-a0b4-3d68bd301828  shwethademoenv
[8]   SMC-DU-MSDN                cb74fef0-c83d-4717-9b5f-ea782ab9fcc6  shwethademoenv
[9]   SMC-DU1-MSDN               28228f10-7098-45c2-93c4-849b37b0885c  shwethademoenv
[10]  SMC-DU2-MSDN               52602318-fae9-4e65-93c0-23e32a83875b  shwethademoenv

Select a tenant and subscription: 2

[Announcements]
With the new Azure PowerShell login experience, you can select the subscription you want to use more easily. Learn more about it and its configuration at https://go.microsoft.com/fwlink/?linkid=2271909.
```

Latest Preview release:

- PowerShell-7.6.0-preview.6-win-x64.msi
- PowerShell-7.6.0-preview.6-win-x86.msi

```

Administrator: PowerShell 7 (x64)
Select a tenant and subscription: 2
[Announcements]
With the new Azure PowerShell login experience, you can select the subscription you want to use more easily. Learn more about it and its configuration at https://go.microsoft.com/fwlink/?linkid=2271909.
If you encounter any problem, please open an issue at: https://aka.ms/azpsissue
Subscription name Tenant
DU1 -DO2 MSDN      shwethademoenv
PS C:\Users\rkm-vm1> Join-AzStorageAccount -ResourceGroupName "rkm-avdrg-rg" -StorageAccountName "rkmstgaccavdrg" -Domain "g7cr.live"
StorageAccountName ResourceGroupName PrimaryLocation SkuName      Kind       AccessTier CreationTime      ProvisioningState
rkmstgaccavdrg      rkm-avdrg-rg        australiaeast Standard_LRS StorageV2 Hot      1/9/2026 5:28:42 AM Succeeded
PS C:\Users\rkm-vm1> Test-NetConnection -ComputerName rkmstgaccavdrg.file.core.windows.net -CommonTCPPort SMB
ComputerName : rkmstgaccavdrg.file.core.windows.net
RemoteAddress : 20.60.183.230
RemotePort   : 445
InterfaceAlias : Ethernet
SourceAddress : 10.0.0.4
TcpTestSucceeded : True
PS C:\Users\rkm-vm1>

```

Latest Preview release:

- PowerShell-7.6.0-preview.6-win-x64.msi
- PowerShell-7.6.0-preview.6-win-x86.msi

Configure Active Directory

Identity-based access

If you want to enable Active Directory for this storage account again after disabling, you'll need to follow steps outlined under the accordions below.

Disable Active Directory for this storage account

Learn how to enable identity-based access

Step 1: Enable an identity source

Choose the identity source that contains the user accounts that will access a share in this storage account. You can set up identity-based domain services.

- Active Directory Domain Services (AD DS)
- Microsoft Entra Domain Services (Microsoft Entra DS), a platform as a service, hosted directory service and domain controller in Azure
- Microsoft Entra Kerberos allows using Kerberos authentication from Microsoft Entra ID joined clients. In order to use Microsoft Entra

Active Directory Domain Services (AD DS) Enabled Configure	Microsoft Entra Domain Services Another access method is already configured	Microsoft Entra Another access m
---	---	--

Step 2: Set share-level permissions

[Save](#) [Discard](#)

A rkmprofiles - Mi x A rkmstgaccavdrg x New tab x | Azure login error x | Releases - Azure x | New tab x +

portal.azure.com/#view/Microsoft_Azure_FileStorage/ConfigureActiveDirectoryBlade/storageAccountId/%2Fsubscriptions%2Fd6118b73-2de3-4f0e-b66e-6efdea4925f8... 🛡️ ⚙️ 🌐 🌐 🌐

Microsoft Azure Search resources, services, and docs (G+) Copilot 📈 🔍 🌐 🌐 🌐 🌐 🌐 adminakash@shwethad... SHWETHADEMOENV (SHWETHA...)

Home > Storage center | Blob Storage > rkmstgaccavdrg | File shares > rkmprofiles >

rkmstgaccavdrg | Identity-based access

File shares

Refresh Give feedback Configure

Microsoft Entra ID is not a domain controller, only a directory service. User accounts solely based in Microsoft Entra ID are currently not supported.

Step 2: Set share-level permissions

Once you have enabled Active Directory or Microsoft Entra source on your storage account, you must configure share-level permissions in order to get access to your file shares. There are two ways you can assign share level permissions. You can assign them to all authenticated identities as a default share level permission below. You can also assign them to specific Microsoft Entra users/user group from the IAM blade. [Learn more](#)

Permissions for all authenticated users and groups

Default share-level permissions

Disable permissions and no access is allowed to file shares

Enable permissions for all authenticated users and groups

Select appropriate role *

Storage File Data SMB Share Elevated Contributor

Step 3: Set file and directory permissions

You can manage permissions for individual files and directories within the browse experience of the share. [Learn more](#)

Save Discard

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

adminakash@shwethad...
SHWETHADEMOENV (SHWETHA...)

Home > Host pools >

Create a host pool

Select which directory you would like to join

Active Directory

AD domain join UPN * sameekshays@g7cr.live

Password * ⋮

Confirm password * ⋮

Specify domain or unit ⋮

Yes
 No

Virtual machine administrator account

User name * sameeksha

Password * ⋮

Confirm password * ⋮

Custom configuration

Review + create

< Previous

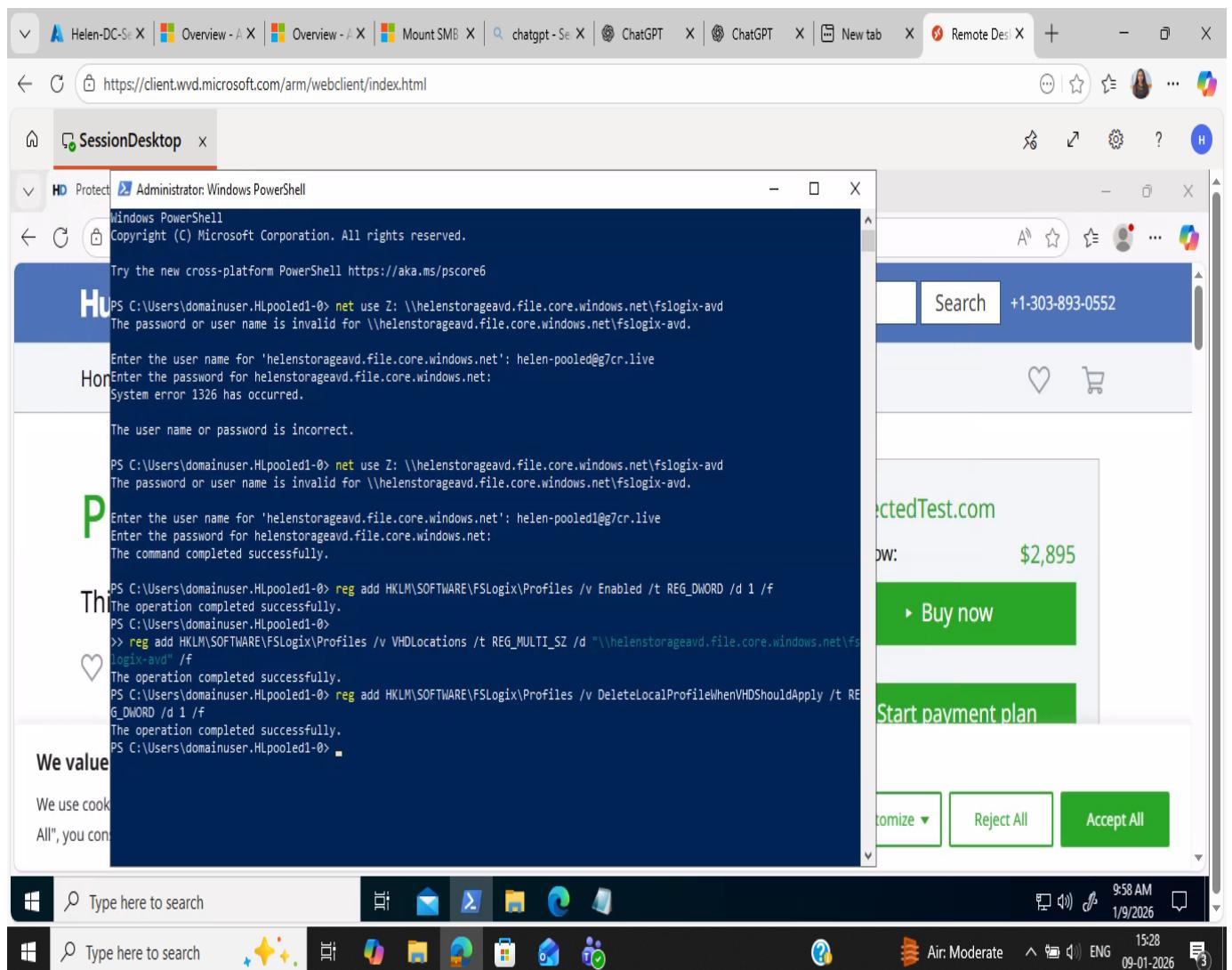
Next: Workspace >

6. User Assignment and Access

- **Personal Host Pool: One user assigned per VM**
- **Pooled Host Pool: Multiple users assigned to one VM**

Users can access desktops using:

- **Azure Virtual Desktop Web Client**
- **Remote Desktop Client**



First give ur pooled user name and password again its ask for name and password then give ur local user name(the name you gave when u creating the host pool and workspace) after login check with whoiam then execute the above commands .

After executing sign out from the session host then login with pooled user .now what u can expect is if u go and check in file share through fs logic the profile container is created to that pooled user .

If u keep on login with different pooled user for each user the profile container Is created in the file share.

```
reg add HKLM\SOFTWARE\FSLogix\Profiles /v Enabled /t REG_DWORD /d 1 /f
```

```
reg add HKLM\SOFTWARE\FSLogix\Profiles /v VHDLocations /t REG_MULTI_SZ /d  
"\replacewithfilesharelink" /f
```

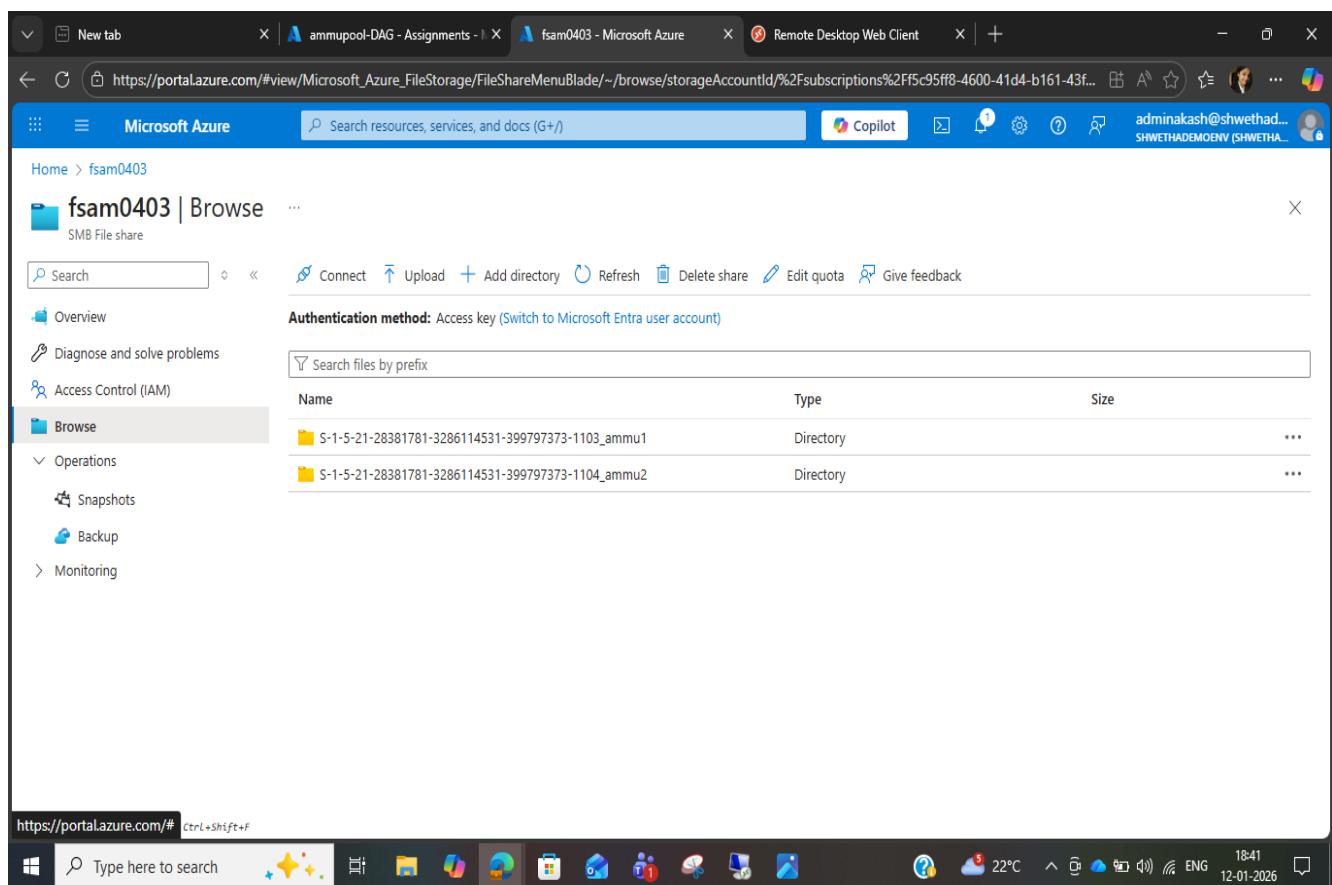
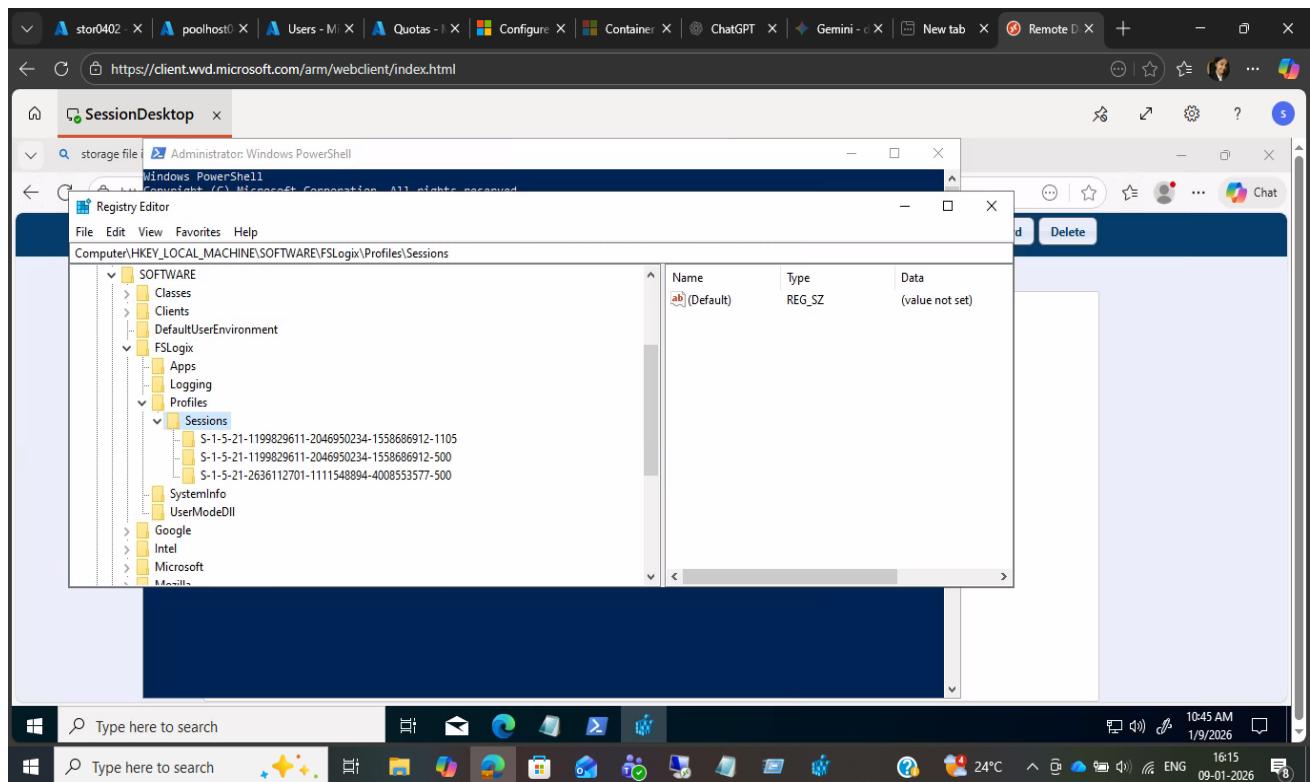
```
reg add HKLM\SOFTWARE\FSLogix\Profiles /v  
DeleteLocalProfileWhenVHDShouldApply /t REG_DWORD /d 1 /f
```

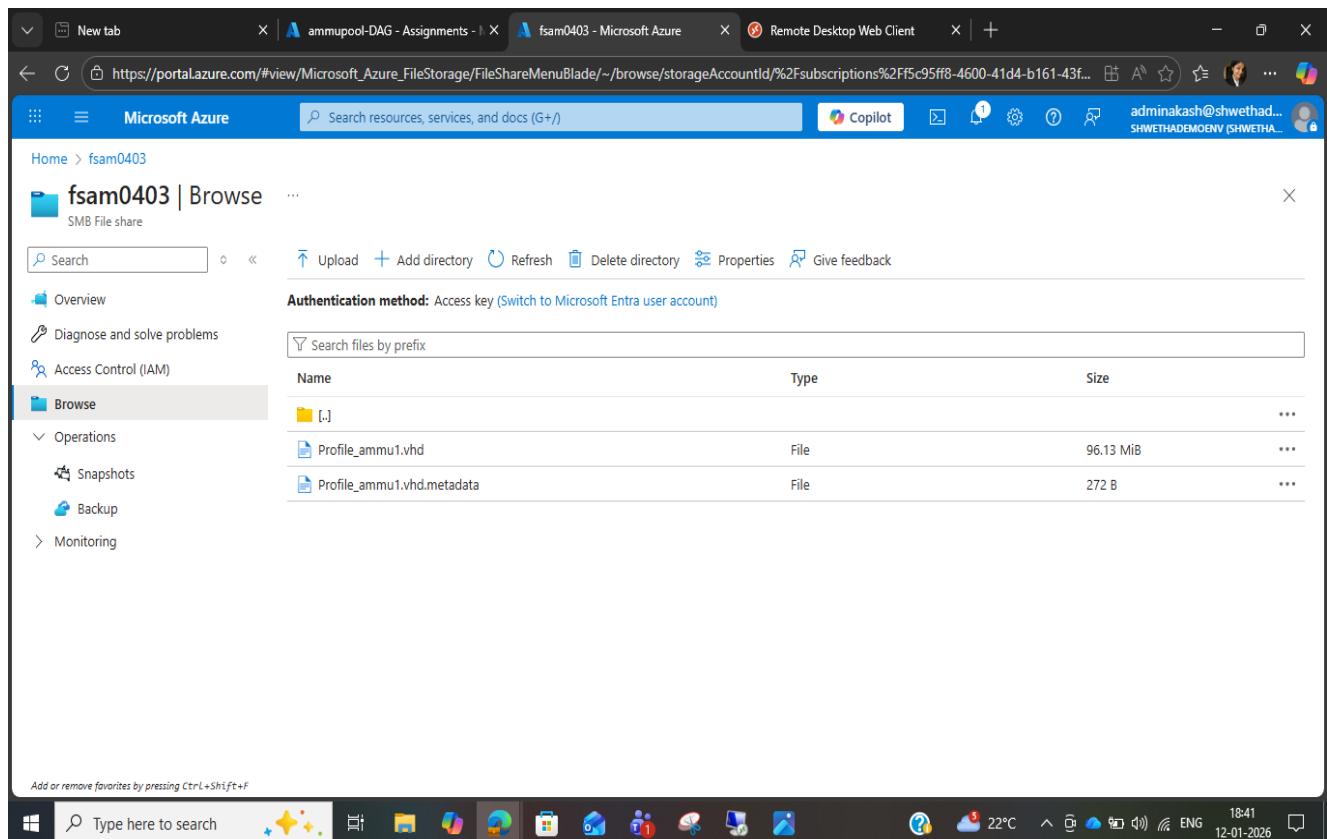
```
reg add HKLM\SOFTWARE\FSLogix\Profiles /v IsDynamic /t REG_DWORD /d 1 /f
```

7. Validation and Testing

Test Scenarios:

- User login to Personal Desktop**
- Multiple users logging into Pooled Desktop**
- Profile persistence after logout/login**
- Domain authentication verification**





8. Security Considerations

- **Domain-based authentication**
- **Role-based access control (RBAC)**
- **Secure storage access for FSLogix**
- **Network isolation using VNs**

9. Benefits of the POC

- **Centralized user management**
 - **Secure remote access**
 - **Cost optimization using pooled desktops**
 - **Scalable architecture**
 - **Enterprise-ready solution**
-

10. Conclusion

This POC successfully demonstrates how Azure Virtual Desktop can be integrated with Active Directory to provide secure, scalable, and persistent virtual desktop access using both Personal and Pooled Host Pools.

11. Future Enhancements

- **Azure AD DS or Entra ID integration**
- **Autoscaling for host pools**
- **Azure Monitor and Log Analytics**
- **MFA and Conditional Access**