Microsoft

AZ-140

Configuring and Operating Azure Virtual Desktop

AZ-140 Agenda

Learning Path 1

1. Azure Virtual Desktop Architecture
2. Design the Azure Virtual Desktop architecture
3. Design for user identities and profiles

Learning Path 2

4. Implement and manage networking for AVD
5. Implement and manage storage for AVD
6. Create and configure host pools and session hosts for AVD
7. Create and manage session host image for AVD

Learning Path 3

8. Manage access for AVD
9. Manage security for AVD

Learning Path 4

10. Implement and manage FSLogix
11. Configure user experience settings
12. Install and configure apps on a session host

Learning Path 5

13. Plan for disaster recovery
14. Automate Azure Virtual Desktop management tasks
15. Monitor and manage performance and health

Install and configure apps on a session host

Introduction

1. MSIX app attach
2. How MSIX app attach works
3. Set up a file share for MSIX app attach
4. How MSIX app attach works
5. Using the OneDrive sync app on virtual desktops
6. Using Microsoft Teams on Azure Virtual desktop
7. Publish built-in apps in Azure Virtual Desktop
8. Troubleshoot application issues for Azure Virtual Desktop

AZ-140: Manage user environments and apps (20-25%)

Install and configure apps on a session host

- Conceptual knowledge of Azure compute solutions.
- Working experience with virtual machines, virtual networks, and app service.

MSIX app attach

MSIX app attach

The MSIX package format preserves the functionality of existing app packages and/or install files in addition to enabling new, modern packaging and deployment features to Win32, WPF, and Windows Forms apps.

- MSIX app attach is a way to deliver MSIX applications to both physical and virtual machines.
- **MSIX app attach** is different from regular **MSIX** because it's made especially for Azure Virtual Desktop.

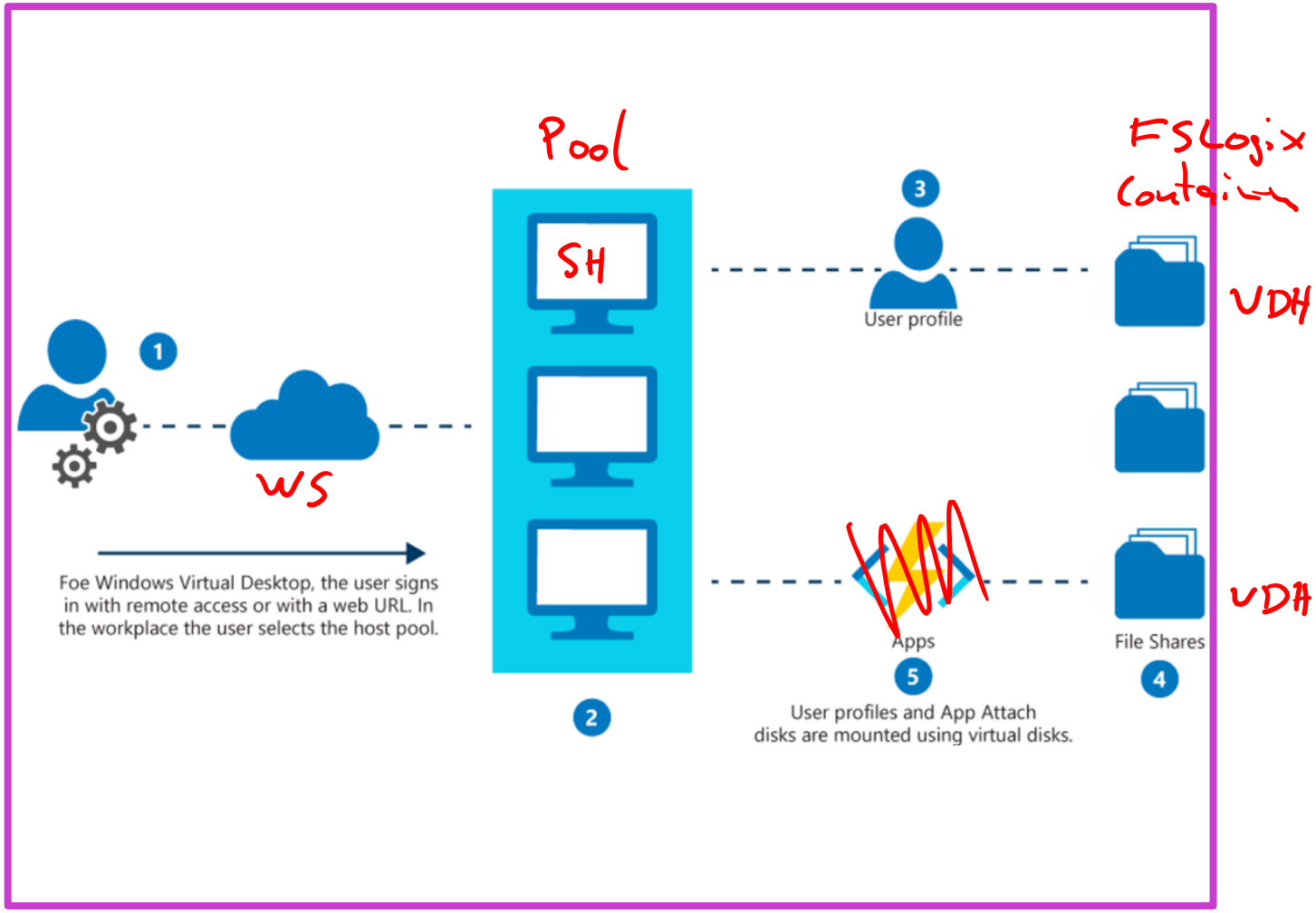
In an Azure Virtual Desktop deployment, MSIX app attach can:

- Create separation between user data, the OS, and apps by using MSIX containers.
- Remove the need for repackaging when delivering applications dynamically.
- Reduce the time it takes for a user to sign in.

How MSIX app attach works

How MSIX app attach works

1. From the Azure Virtual Desktop client, you sign in and select the host pool for which you have access.
2. You're assigned a virtual machine within the host pool, on which a RemoteApp or Remote Desktop session is created.
3. If the user profile is configured, the FSLogix agent on the session host provides the user profile from the file share.
4. Applications that are assigned to you are read from Azure Virtual Desktop.
5. MSIX app attach applications are registered to the virtual machine for you, from the attached MSIX virtual disk.



Set up a file share for MSIX app attach

Set up a file share for MSIX app attach

To optimize MSIX app attach performance:

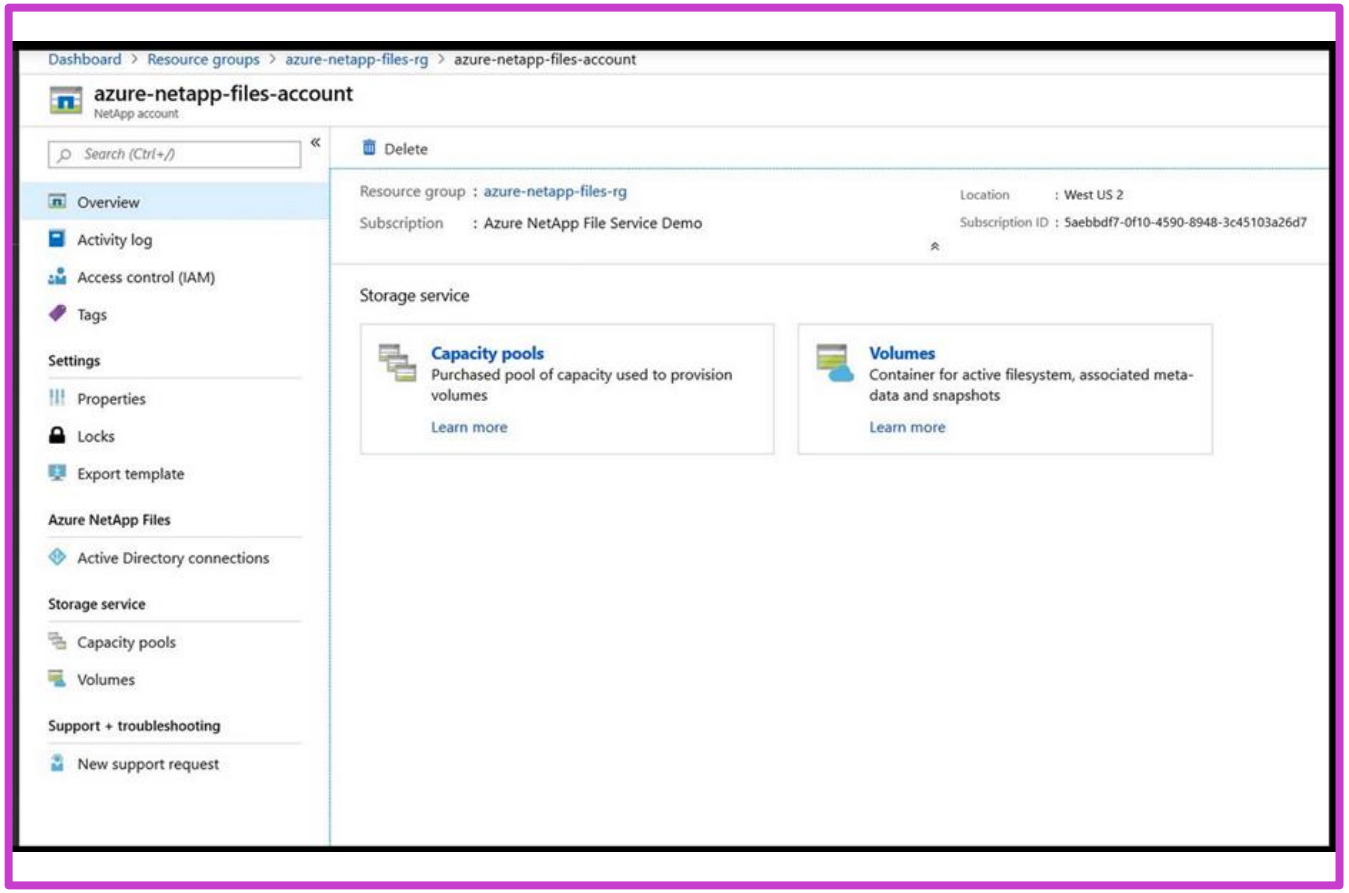
- The storage for MSIX app attach should be in the same datacenter location as the session hosts.
- To prevent bottlenecks, exclude the following VHD, VHDX, and CIM files from antivirus scans:
  - <MSIXAppAttachFileShare\>*.VHD
  - <MSIXAppAttachFileShare\>*.VHDX
  - \\storageaccount.file.core.windows.net\share*.VHD
  - \\storageaccount.file.core.windows.net\share*.VHDX
  - <MSIXAppAttachFileShare>.CIM
  - \\storageaccount.file.core.windows.net\share**.CIM
- Separate the storage fabric for MSIX app attach from FSLogix profile containers.
- All VM system accounts and user accounts must have read-only permissions to the file share.
- Disaster recovery plans must include replicating the MSIX app attach file share in your secondary failover location.

Upload MSIX images to Azure NetApp Files in Azure Virtual Desktop

Before you can start uploading the images, you'll need to set up Azure NetApp Files.

To start using Azure NetApp Files:

1. Set up your Azure NetApp Files account.
2. Create a capacity pool.
3. Join a Microsoft Entra ID connection.
4. Create a new volume.
5. Make sure your connection to the Azure NetApp Files share works.



How to configure apps for users

Configure apps for users

In this demonstration you see how to create a RemoteApp application group to share an application to a different user in the organization.

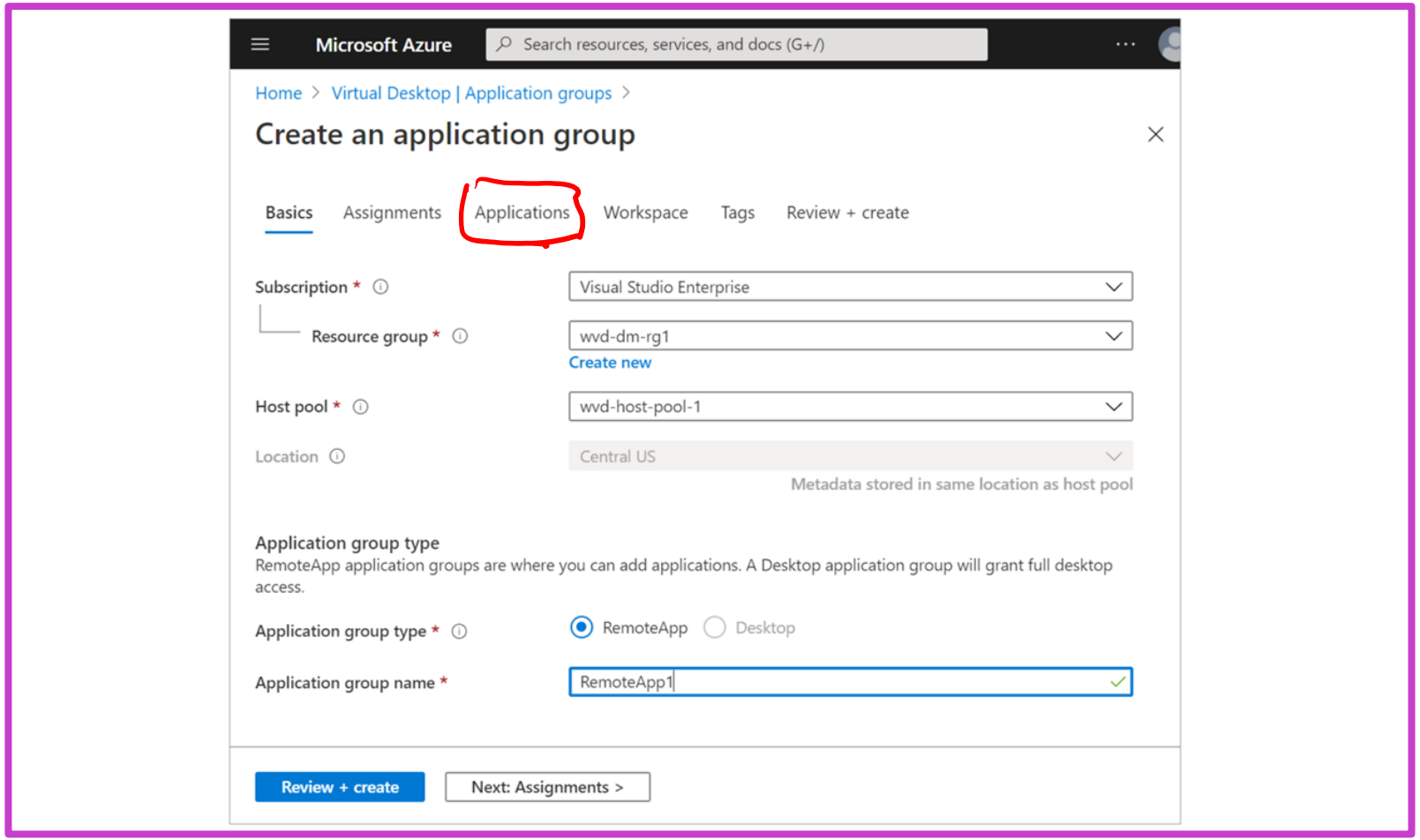
Step 1: Create a RemoteApp application group

Step 2: Add Azure AD users or user groups

Step 3: Add applications

Step 4: Register and create an application group

Step 5: Verify access to application

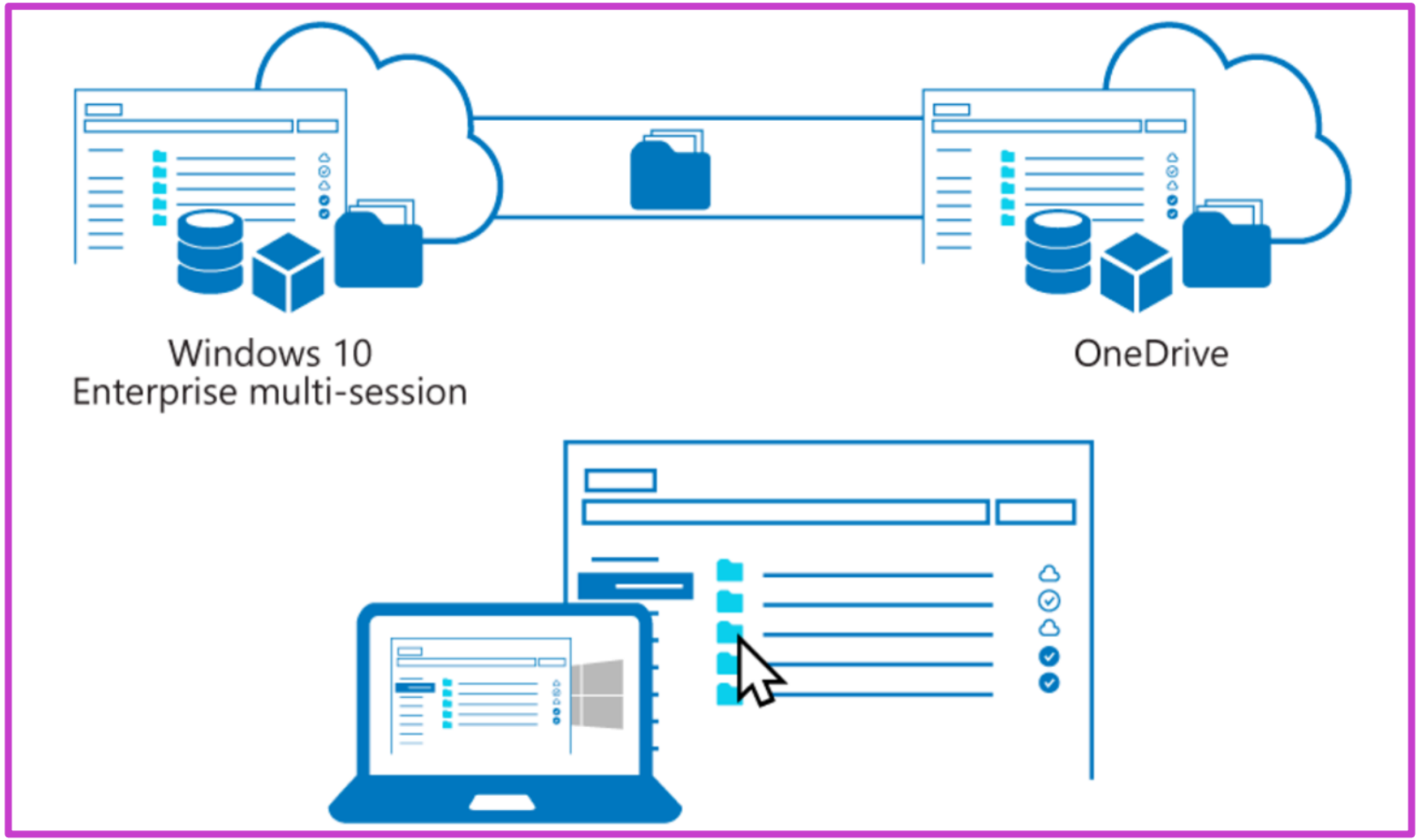


Using the OneDrive sync app on virtual desktops

Using the OneDrive sync app on virtual desktops

The OneDrive sync per machine app provides:

- Automatic transitioning from the previous OneDrive for Business sync app
- Automatic conversion from per-user to per-machine
- Automatic updates when a new version is available



Using Microsoft Teams on Azure Virtual desktop

Using Microsoft Teams on Azure Virtual desktop

Media optimization for Microsoft Teams is only available for the Windows Desktop client on Windows 10 machines.

- Microsoft Teams on Azure Virtual Desktop supports chat and collaboration.
- With media optimizations, it also supports calling and meeting functionality.
- With media optimization for Microsoft Teams, the Windows Desktop client handles audio and video locally for Teams calls and meetings.
- You can still use Microsoft Teams on Azure Virtual Desktop with other clients without optimized calling and meetings.
- Teams chat and collaboration features are supported on all platforms.

Publish built-in apps in Azure Virtual Desktop

Publish built-in apps in Azure Virtual Desktop

To publish a built-in app:

1. Connect to one of the virtual machines in your host pool.
2. Get the **PackageFamilyName** of the app you want to publish by following the instructions in this article.
3. Run the following cmdlet with <PackageFamilyName> replaced by the **PackageFamilyName** you found in the previous step:

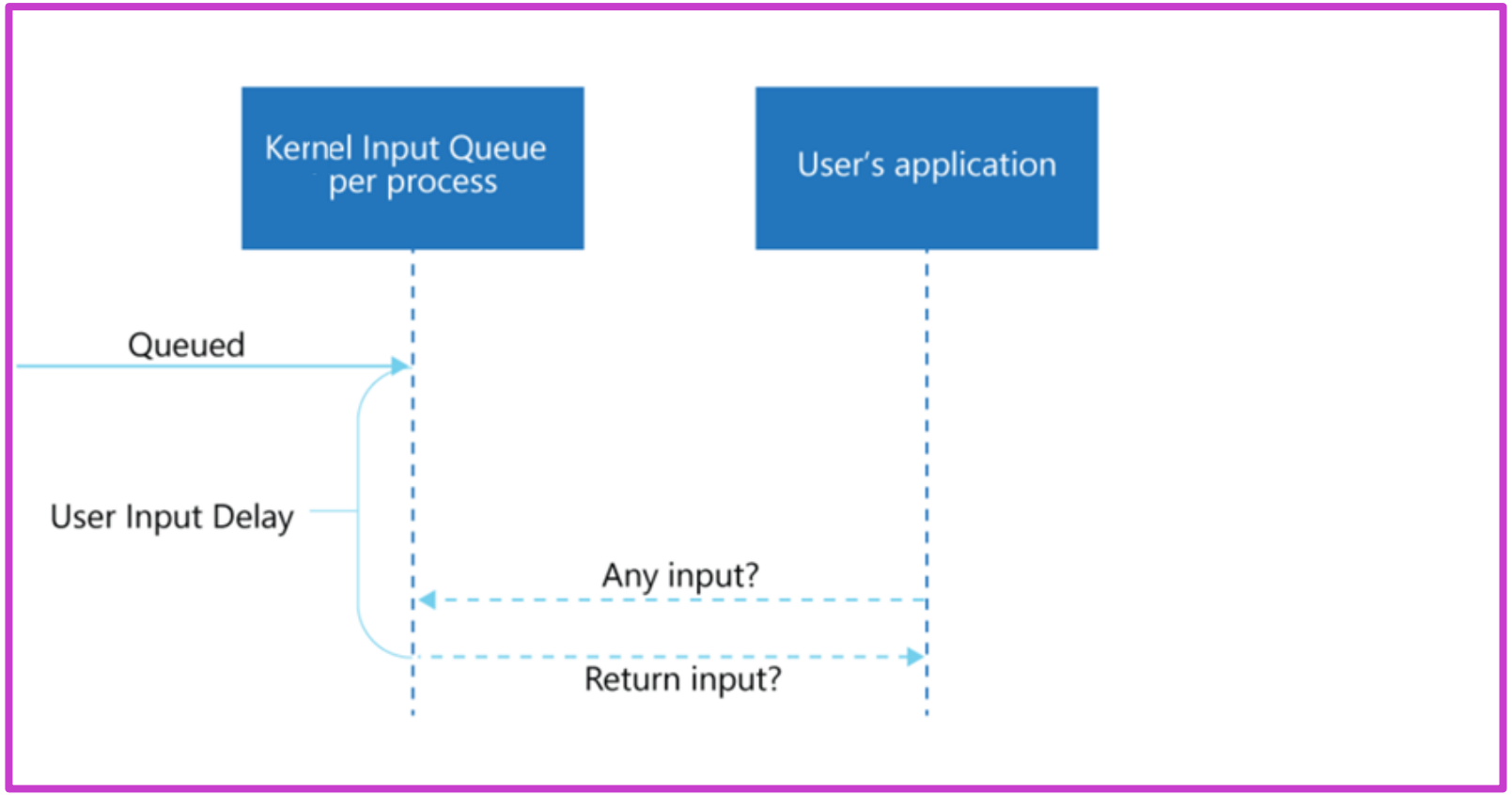
```
New-AzWvdApplication -Name <applicationname> -ResourceGroupName <resourcegroupname> -
ApplicationGroupName <appgroupname> -FilePath "shell:appsFolder\<PackageFamilyName>!App" -
CommandLineSetting <Allow|Require|DoNotAllow> -IconIndex 0 -IconPath <iconpath> -
ShowInPortal:$true
```

Azure Virtual Desktop only supports publishing apps with install locations that begin with *C:\Program Files\WindowsApps*.

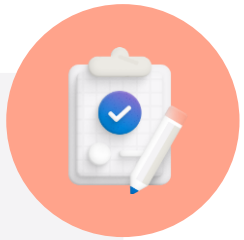
Troubleshoot application issues for Azure Virtual Desktop

The User Input Delay counter can help identify the root cause for bad end user RDP experiences.

- The counter measures how long any user input remains in the queue before it is picked up by a process.
- The User Input Delay counter measures the max delta between the input being queued and when it's picked up by the app in a message loop.



Knowledge check and Summary



Check your knowledge

What you learned:

- Describe MSIX app attach for Azure Virtual Desktop.
- Explain how MSIX app attach works.
- Set up a file share for MSIX app attach.
- Use the OneDrive sync app on Azure Virtual Desktops.
- Use Microsoft Teams on Azure Virtual Desktop.
- Publish built-in apps in Azure Virtual Desktop.

End of presentation