

# Windows Server 2022: Manage Storage and File Services

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## Configure Azure File Sync



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# Overview



**Create Azure File Sync service**

**Create sync groups**

**Create cloud endpoints**

**Register servers**



# Manage Storage and File Services

**Configure Azure File Sync**

**Manage Azure File Sync**

**Configure and Manage Windows Server File Shares**

**Configure Windows Server Storage**

**Manage Windows Server Storage**



# Windows Server Hybrid Administrator Associate

Take two exams



CERTIFICATION EXAM **AZ-800**  
**Administering Windows Server  
Hybrid Core Infrastructure**

AND



CERTIFICATION EXAM **AZ-801**  
**Configuring Windows Server  
Hybrid Advanced Services**

Earn the certification



ASSOCIATE CERTIFICATION  
**Microsoft Certified:  
Windows Server Hybrid  
Administrator Associate**

**One-year cert validity**





# Exercise Files

What do you want to learn?

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## Troubleshooting with Microsoft Azure Network Watcher

by Tim Warner

Microsoft now gives you packet-level access to your Windows Server and Linux virtual machines (VMs) running in Azure. You'll learn how to use Network Watcher to troubleshoot network security groups (NSGs), perform packet captures, and much more.

[Resume Course](#) [Bookmark](#) [Add to Channel](#)

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Description

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**Exercise files**

Discussion

Learning Check

Recommended

These exercise files are intended to provide you with the assets you need to create a video-based hands-on experience. With the exercise files, you can follow along with the author and re-create the same solution on your computer. We find this to be even more effective than written lab exercises.

[Download exercise files](#)

Course author

**Tim Warner**

Timothy Warner is a Microsoft Most Valuable Professional (MVP) in Cloud and Datacenter Management who is based in Nashville, TN.

Course info

Level

Intermediate

Rating

★★★★★

My rating

★★★★★

Duration

2h 12m

Released

31 Oct 2017

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# Exercise Files

The screenshot displays a Windows desktop environment with three overlapping windows:

- File Explorer (Left):** Shows the directory `C:\Users\Tim\Downloads\azure`. It contains a list of folders named 02, 03, 04, 05, and 06. The status bar indicates `0 / 5 object(s) selected`.
- Code Editor (Center):** A window titled `microsoft-azure-ad-privileged-identity-management-configuring-m4-links.txt` displays the following text:

```
1 Module 4: Organize and Perform Azure AD PIM Access Reviews↵
2 ↵
3 Microsoft Azure↵
4 https://azure.microsoft.com/en-us/↵
5 ↵
6 Azure Documentation↵
7 https://docs.microsoft.com/en-us/azure/↵
8 ↵
9 Azure AD Privileged Identity Management (PIM) documentation | Microsoft Docs↵
10 https://docs.microsoft.com/en-us/azure/active-directory/
    privileged-identity-management/↵
11 ↵
12 Identity Governance - Azure Active Directory | Microsoft Docs↵
13 https://docs.microsoft.com/en-us/azure/active-directory/governance/
    identity-governance-overview↵
14 ↵
15 Create an access review of Azure resource roles in PIM - Azure Active Directory |
    Microsoft Docs↵
16 https://docs.microsoft.com/en-us/azure/active-directory/
    privileged-identity-management/pim-resource-roles-start-access-review↵
17 ↵
18 Review access to Azure AD roles in PIM - Azure Active Directory | Microsoft Docs↵
19 https://docs.microsoft.com/en-us/azure/active-directory/
    privileged-identity-management/pim-how-to-perform-security-review↵
20 ↵
21 View audit history for Azure AD roles in PIM - Azure Active Directory | Microsoft
    Docs↵
22 https://docs.microsoft.com/en-us/azure/active-directory/
    privileged-identity-management/pim-how-to-use-audit-log↵
```

The status bar at the bottom shows `Spaces: 4 UTF-8 CRLF Plain Text`.
- File Details Window (Right):** A small window showing details for a file in the `02\demos\` folder. It includes a table with the following data:

	Size	Pack
	1 298	
	359	



# Understand Azure File Sync



# Azure File Sync (AFS)



**Centralize your local file shares without disrupting your users and applications**

## **Benefits:**

- Cloud tiering/cloud backup
- Multi-site access and sync
- BCDR

**AFS does not use SMB (TCP 445)**

- FileREST (TCP 443)

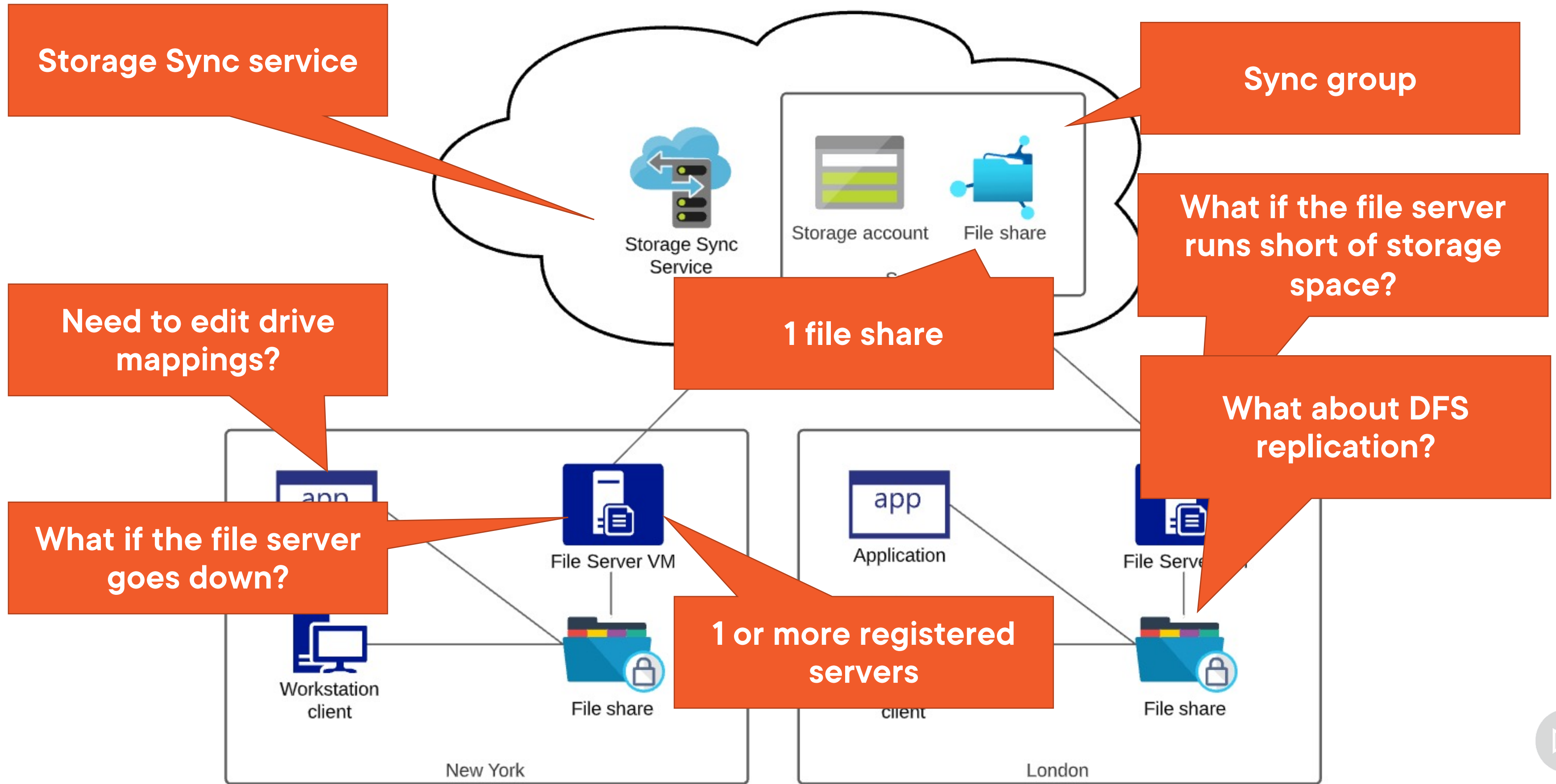
**Share entire volume root or individual shared folders**

**Protect against ransomware with Azure Backup for File Shares**





# Azure File Sync Example Topology



# Deploy Azure File Sync



# Azure File Sync Deployment Workflow

**Create  
Storage  
Sync  
Service**

**Create  
Sync group**

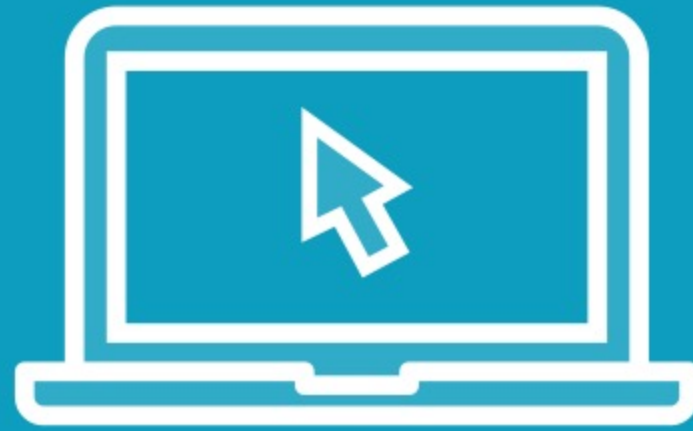
**Verify  
cloud  
endpoint**

**Add server  
endpoint(s)**

**Customize  
sync**



# Demo



# 1

**Install Storage Sync Services**

**Prepare storage account**

**Create Sync group**

**Register server**

**Verify client access via local drive mapping**





## Summary



**AFS represents a great way to:**

- Evolve past DFS
- Embrace cloud storage
- Lift and shift applications while preserving drive mappings

**You might consider using AFS as a method for decommissioning local file servers**

- Azure Files with S2S VPN or ExpressRoute

**"How can I monitor AFS performance and effectiveness? How exactly can I migrate to AFS from DFS-R?"**



Up Next:  
Manage Azure File Sync

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