

Azure Files and Azure FileSync

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Neum 27-29/3/2019

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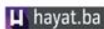
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Agenda



- ➔ Azure Files and FileSync are Azure services
- ➔ Azure Files - SMB file shares in the cloud
- ➔ Azure Files Sync - sync data with the cloud
- ➔ On-premises file servers for local access
- ➔ Protect Azure Files with Azure Backup

Azure Files

✓ Lift and Shift

✓ Variety of clients/protocols

SMB 2.1, 3.0, REST

Windows, Linux, Mac OS

Azure and on premises access

✓ Secure

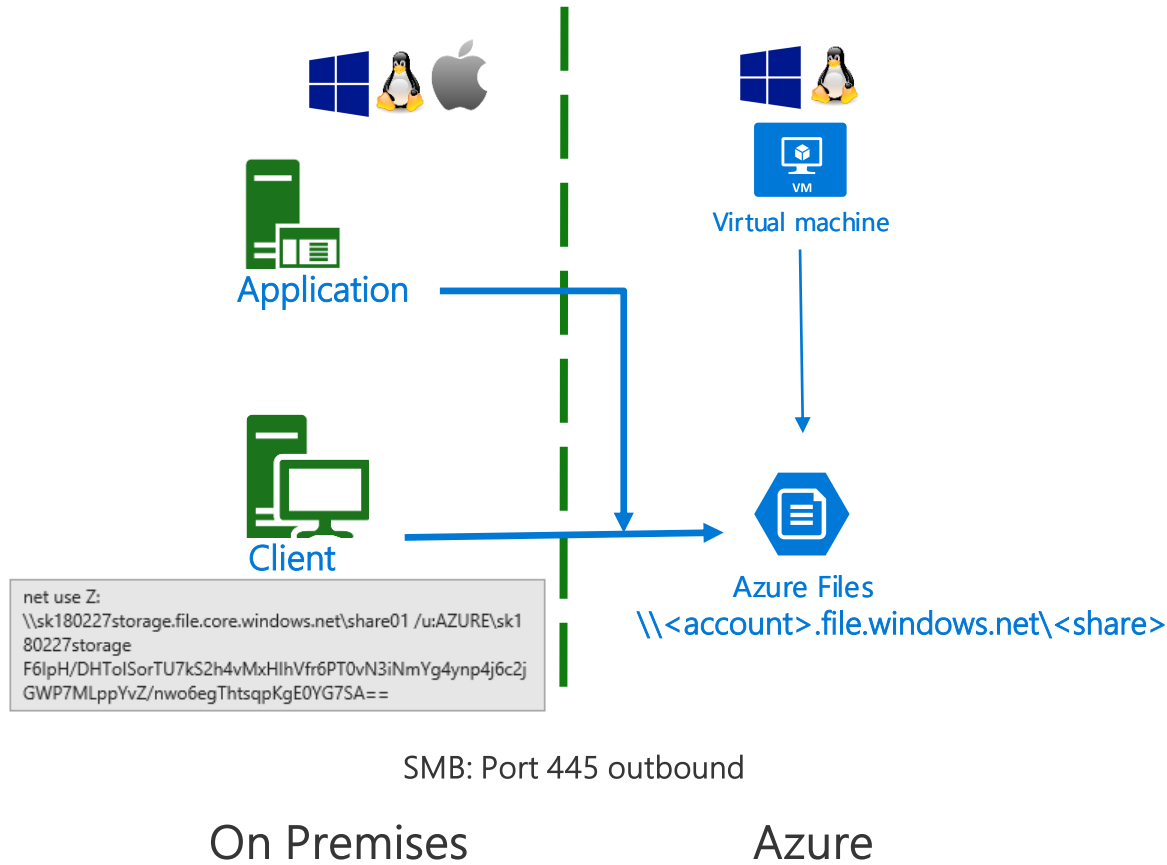
Encryption at rest

Secure communication over SMB

✓ On-premises Sync

Multi-site access

Cloud tiering



Azure Files

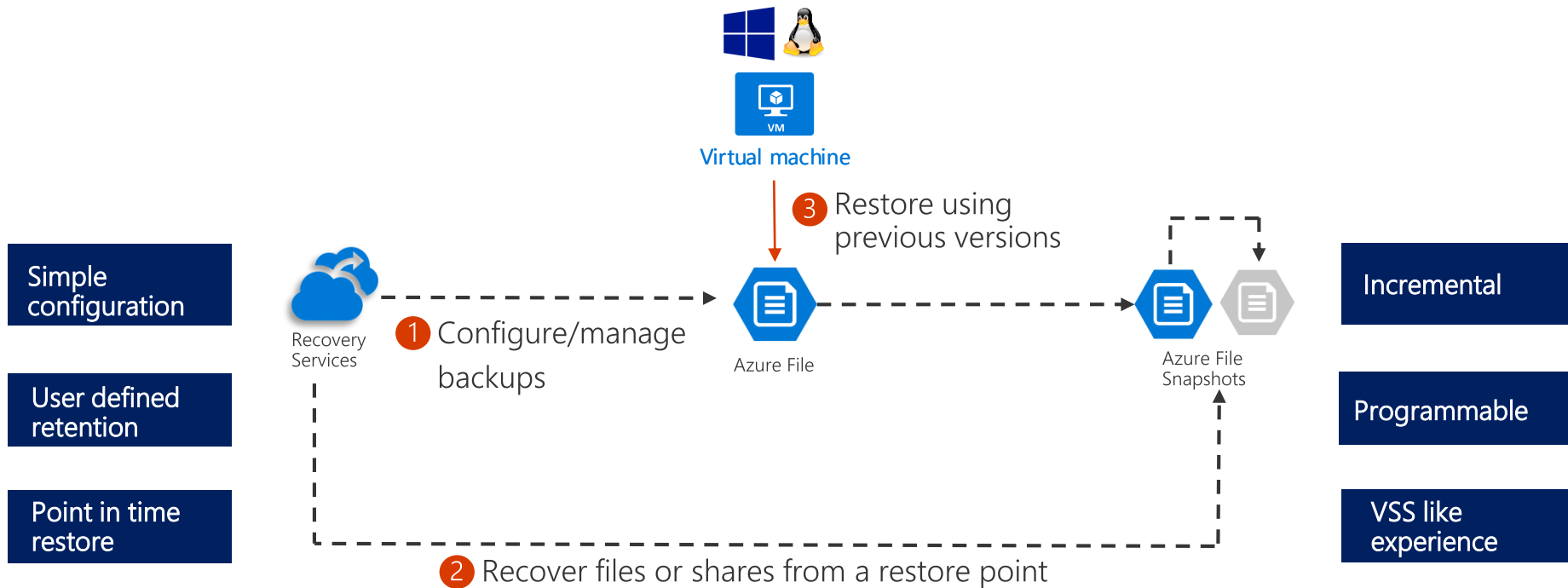


```
net use Z:  
\\sk180227storage.file.core.windows.net\share01 /u:AZURE\sk1  
80227storage  
F6lpH/DHTolSorTU7kS2h4vMxHlhVfr6PT0vN3iNmYg4ynp4j6c2j  
GWP7MLppYvZ/nwo6egThtsqpKgE0YG7SA==
```

```
sudo mount -t  
cifs //sk180227storage.file.core.windows.net/share01 [mount  
point] -o  
vers=3.0,username=sk180227storage,password=F6lpH/DHTolS  
orTU7kS2h4vMxHlhVfr6PT0vN3iNmYg4ynp4j6c2jGWP7MLppYv  
Z/nwo6egThtsqpKgE0YG7SA==,dir_mode=0777,file_mode=077  
7,sec=ntlmssp
```



Azure Files Snapshots

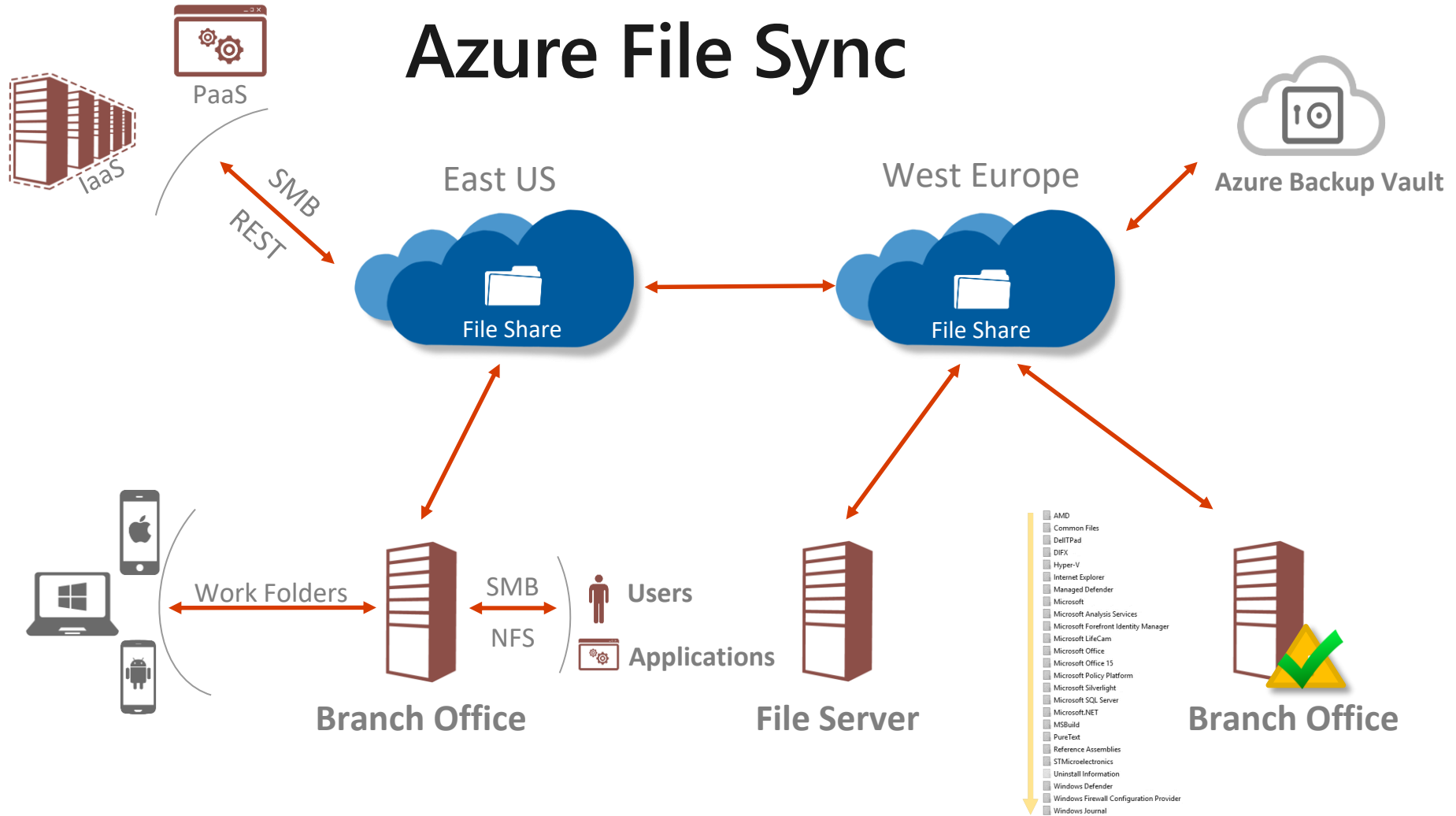


Demo

Azure Files
Using Azure Files Snapshots



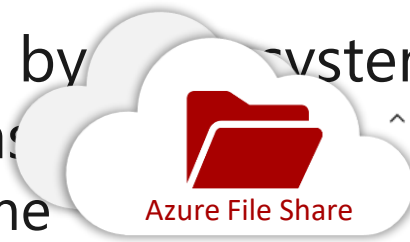
Azure File Sync



File Sync Cloud Tiering

Cloud tiering enabled by system filter driver
Builds a "heatmap" based on:

- Last-accessed-time
- Frequency of access



Cloud Tiering

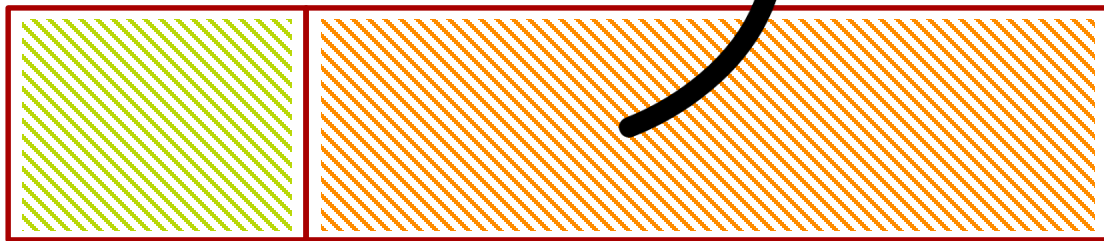
Enabled Disabled

Always preserve the specified percentage of free space on the volume: ⓘ

70

☒ Only cache files that were accessed or modified within the specified number of days: ⓘ

30



Metadata

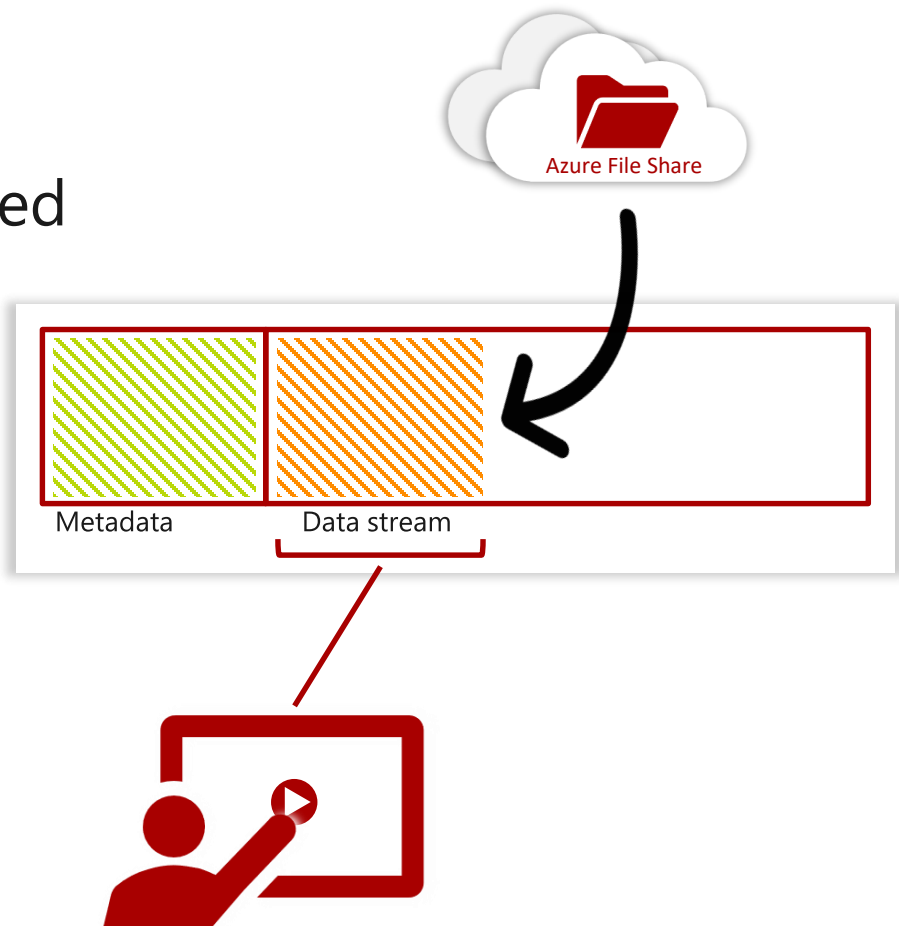
Data stream

File

Partial File Recall

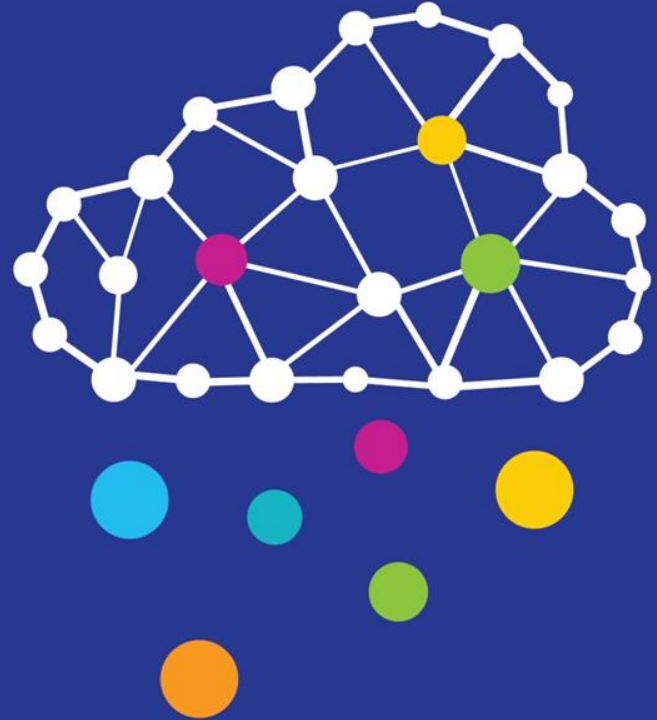
Parts of file fetched when needed

- Media files, zip files, ...
- AV scans metadata
 - Does not access file content



Demo

Establishing Azure File Sync
File Sync cloud tiering
Rapid namespace sync



Azure File Sync scenarios

Multi-site sync

Keep a data set in sync across multiple locations

Cloud tiering

Turn a server into a lightweight, performance cache for Azure Files

Direct cloud access

Native file format with SMB or REST access

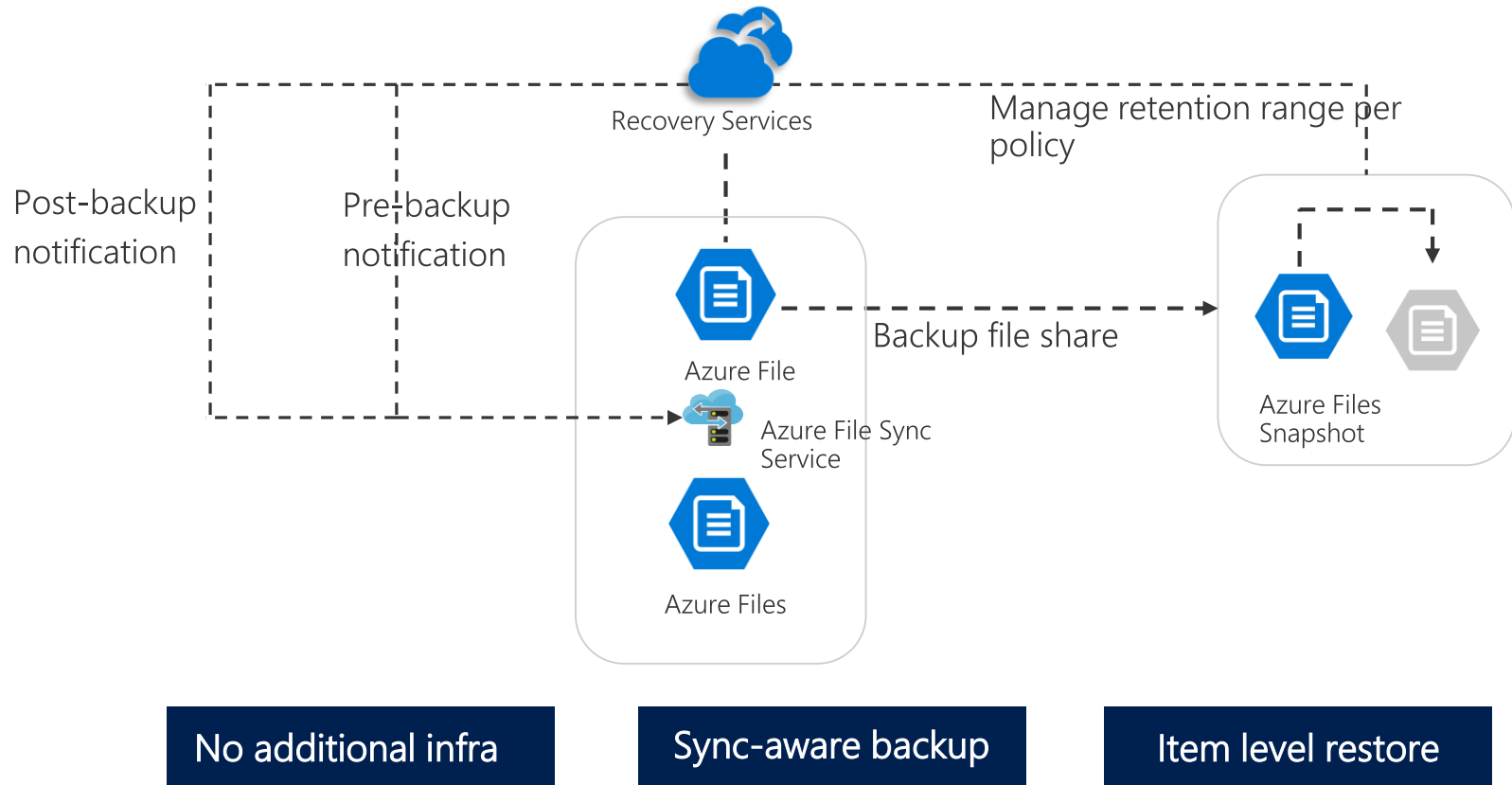
Integrated cloud backup

Point-in-time recovery and retention policies without redundant data transfer

Rapid file server DR

Fast namespace sync with no need to wait for data restore

Sync-aware Azure Files Backup



And that is not all!

Azure Files and Azure File Sync are evolving

- Azure Files and Azure Active Directory
- Large Azure file shares - up to 100 TB
- Better performance – up to 100.000 IOPS and 5 GBps
- Additional cloud tiering policies

Summary



Azure Files can (will be able to) replace file servers

- Clients can access them as on-premises file servers

- Internet connectivity and TCP port 445 (outbound)

- Provides data backup and DR

- Pay-what-you-use approach

Azure File Sync synchronizes data with the cloud

- Can replace DFS-R

- Cloud tiring

- Synchronizes data and permissions

Additional Information



Introduction to Azure Files

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-introduction>

Planning for an Azure File Sync deployment

<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-planning>

Frequently asked questions about Azure Files

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-faq>

Azure Files in 2018: Bigger, faster, better!

<https://myignite.techcommunity.microsoft.com/sessions/66272>

Azure Files Pricing

<https://azure.microsoft.com/en-us/pricing/details/storage/files/>



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1. Posjetom web stranici

<https://www.networkkonferencija.ba/profile/evaluation> vršite evaluaciju u sklopu svog korisničkog profila.

2. Ocijenite predavanja kroz konferencijske mobilne aplikacije pod nazivom NetWork Conference koje su dostupne za Android i iOS mobilne uređaje.

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