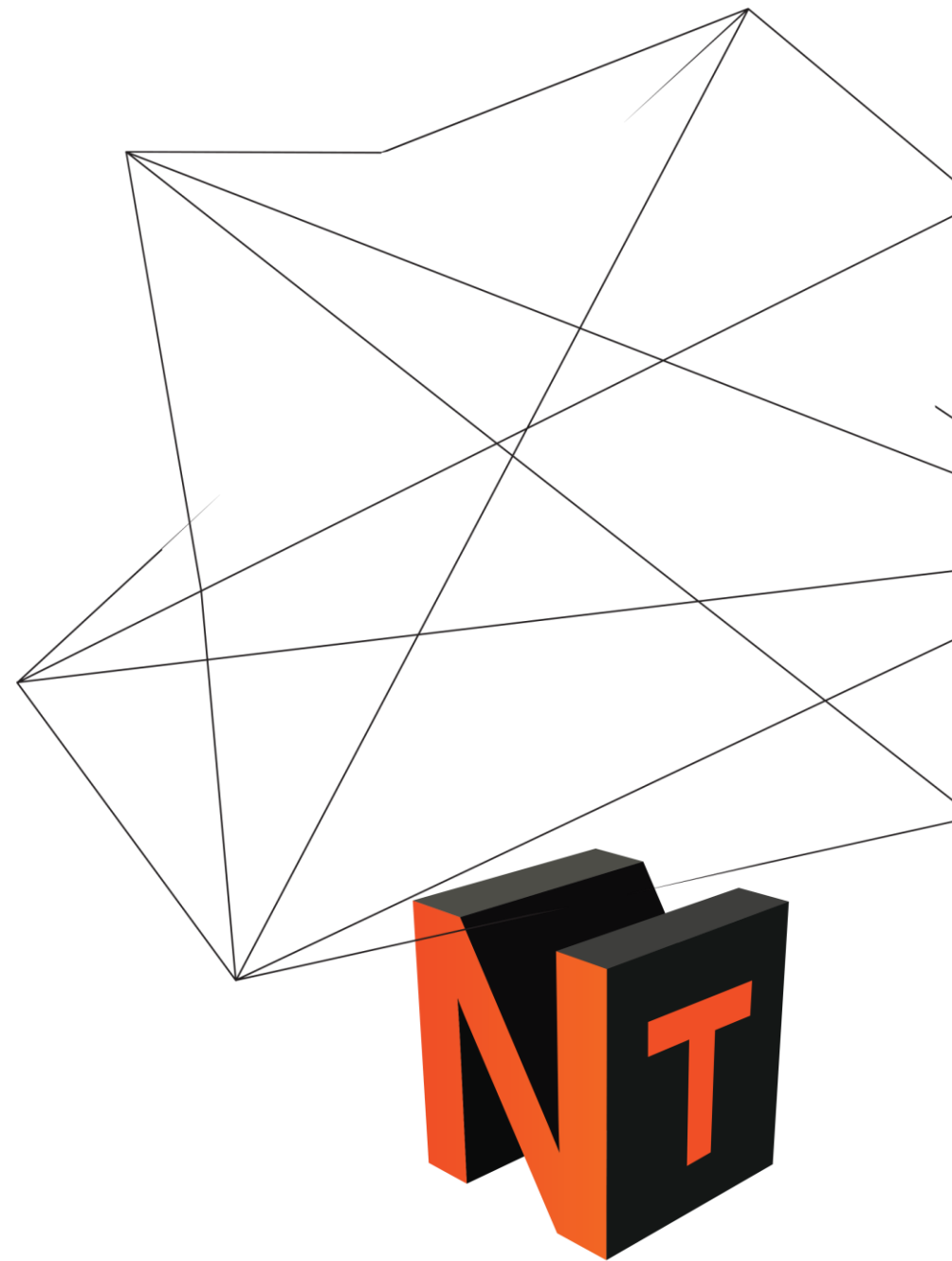




Azure Files in Azure File Sync

Slavko Kukrika
MVP in prijazen fant

#ntk18

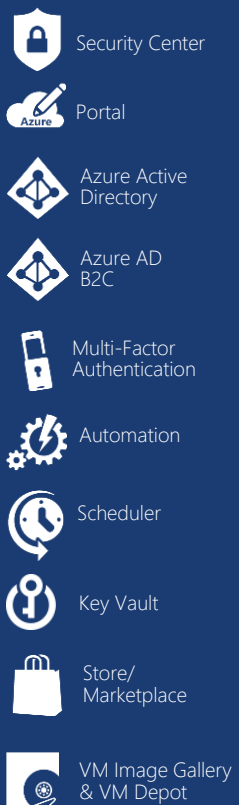


2018
NT Konferenca
Portorož | 22. - 24. maj 2018

Agenda

- ➔ Azure Storage Services
- ➔ Azure Files - SMB file shares in the cloud
- ➔ Azure Files Sync to sync data with the cloud
- ➔ On-premises file servers for local access
- ➔ Protect Azure Files with Azure Backup

Security & Management



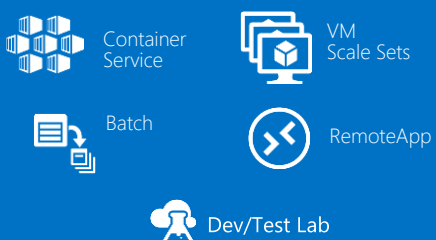
Media & CDN



Integration

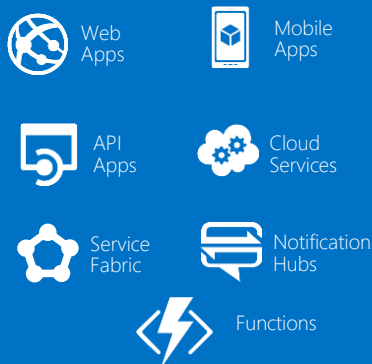


Compute Services

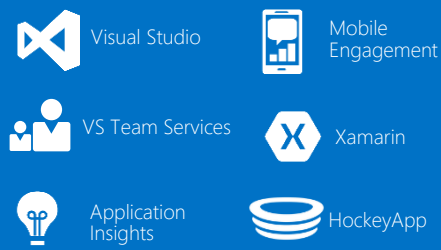


Platform Services

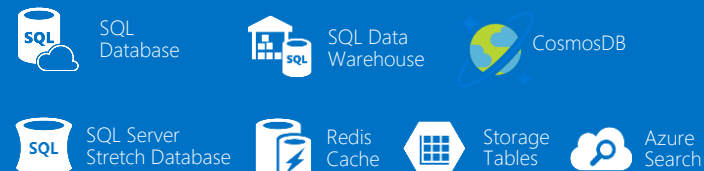
Application Platform



Developer Services



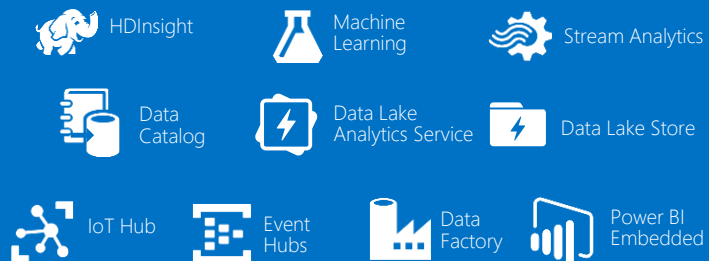
Data



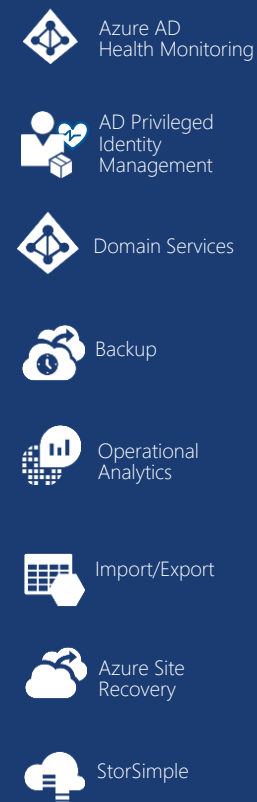
Intelligence



Analytics & IoT



Hybrid Cloud



Infrastructure Services

Compute



Storage

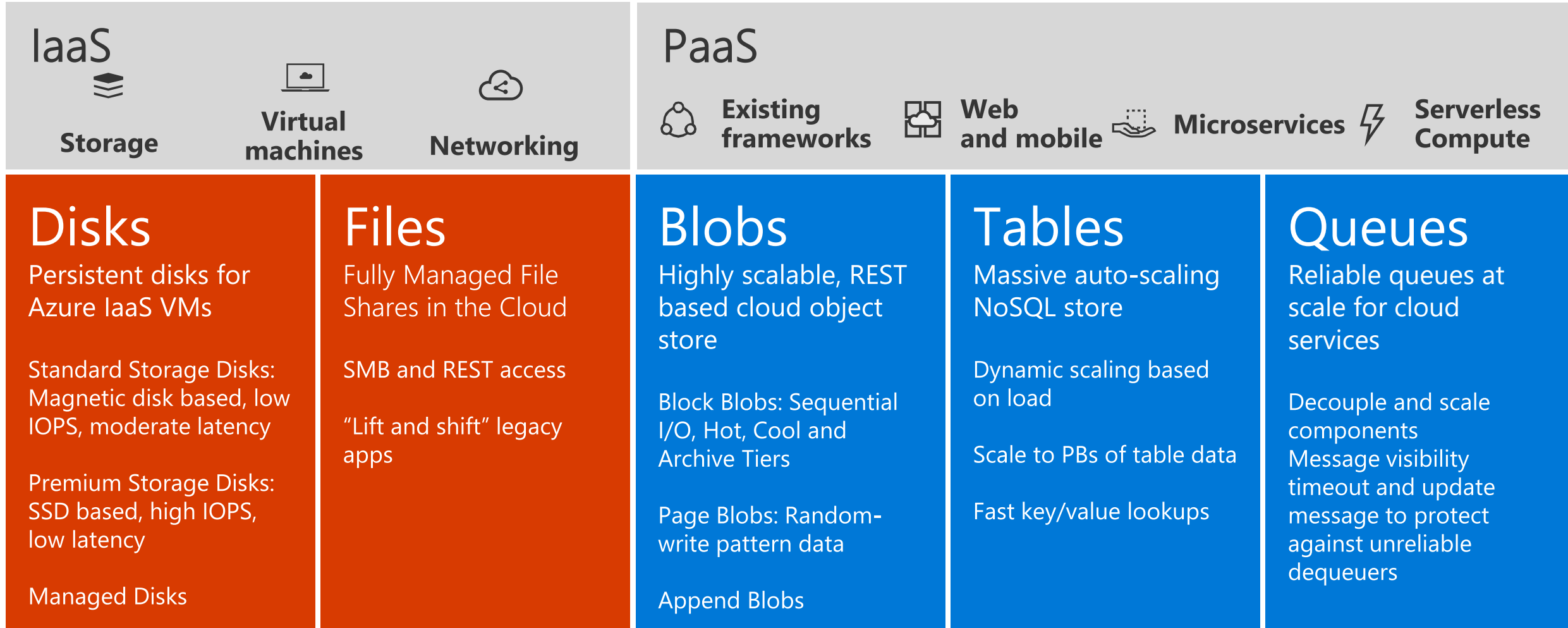


Networking



Datacenter Infrastructure (50 Regions worldwide)

Azure storage services



Built on a unified Distributed Storage System

Durability, Encryption at Rest, Strongly Consistent Replication, Fault Tolerance, Auto Load-Balancing

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

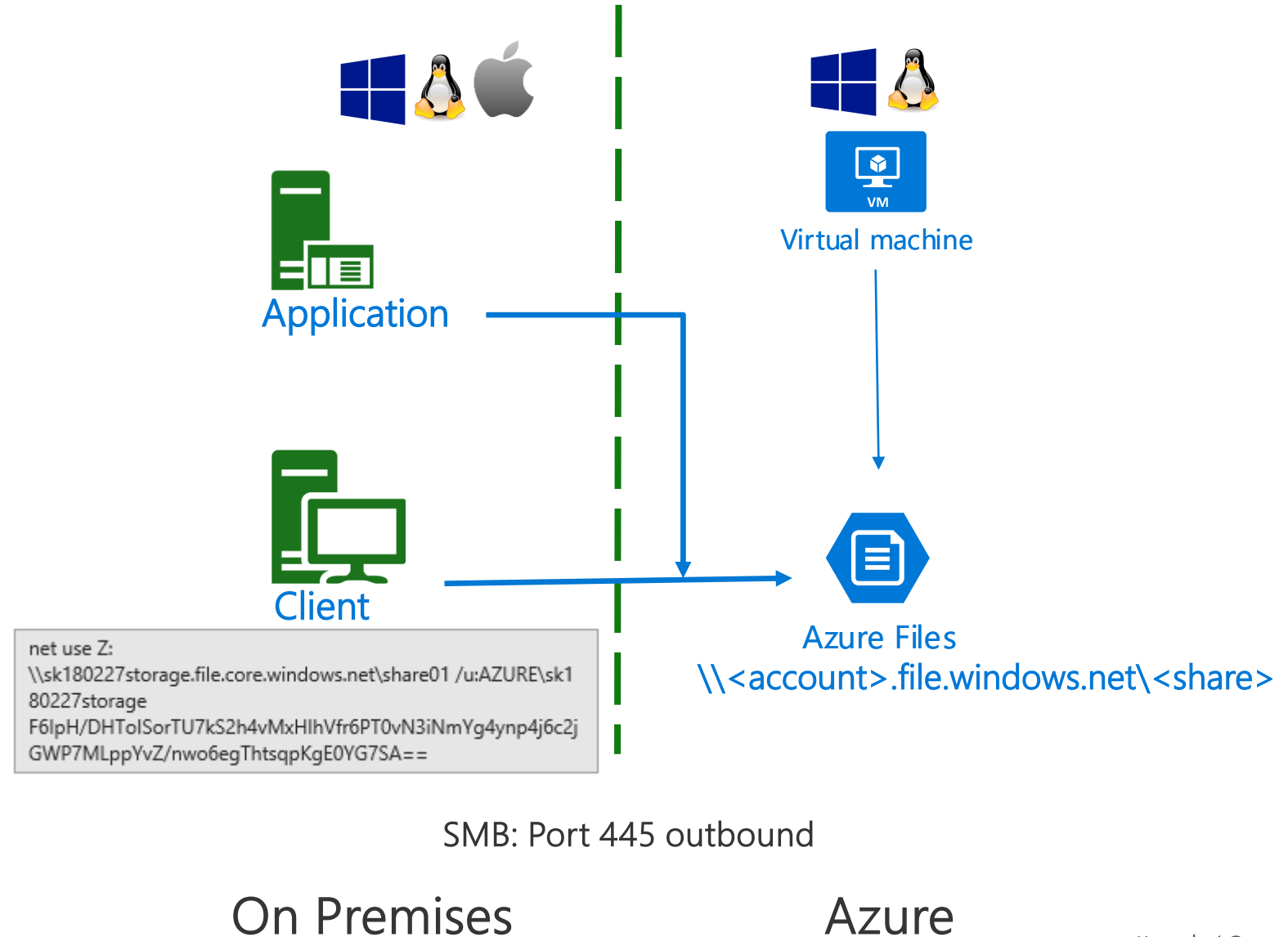
Encryption at rest

Secure communication over SMB

✓ Sync

Multi-site access

Cloud tiering

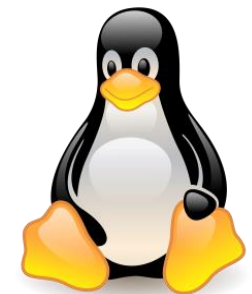


Azure Files

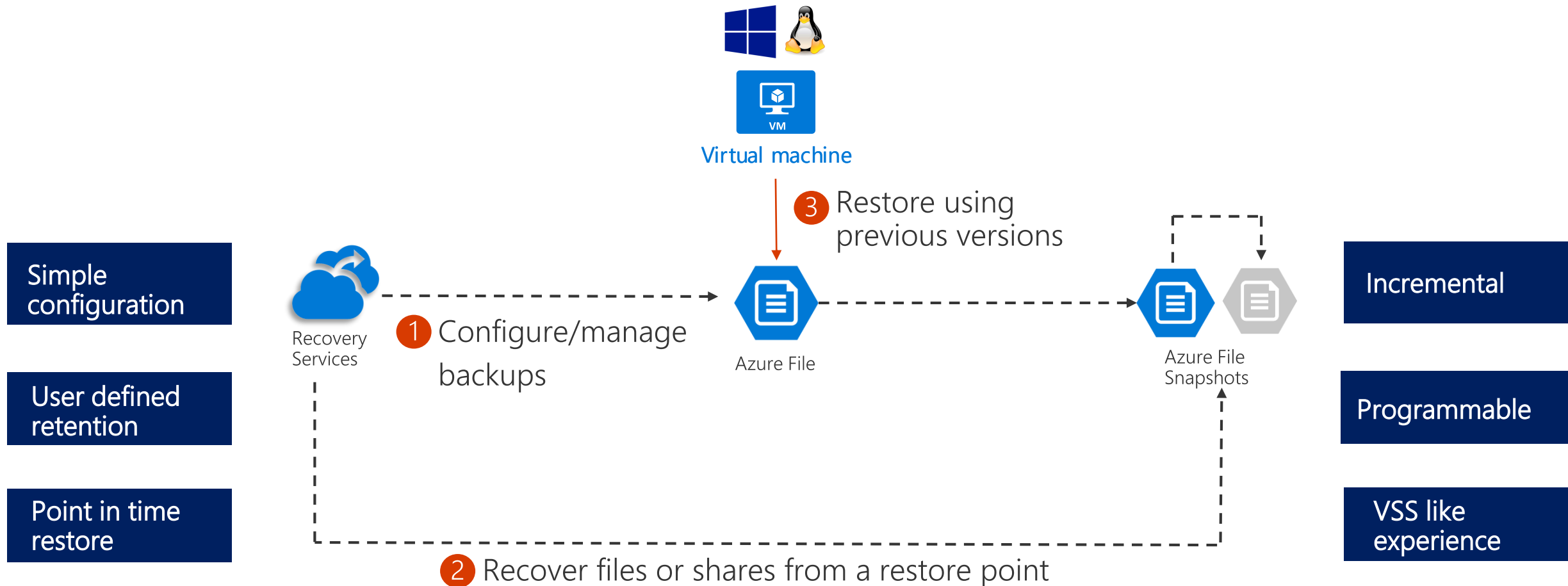


```
net use Z:  
\\sk180227storage.file.core.windows.net\share01 /u:AZURE\sk1  
80227storage  
F6lpH/DHTolSorTU7kS2h4vMxHlhVfr6PT0vN3iNmYg4ynp4j6c2j  
GWP7MLppYvZ/nwo6egThtsqpKgE0YG7SA==
```

```
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
```



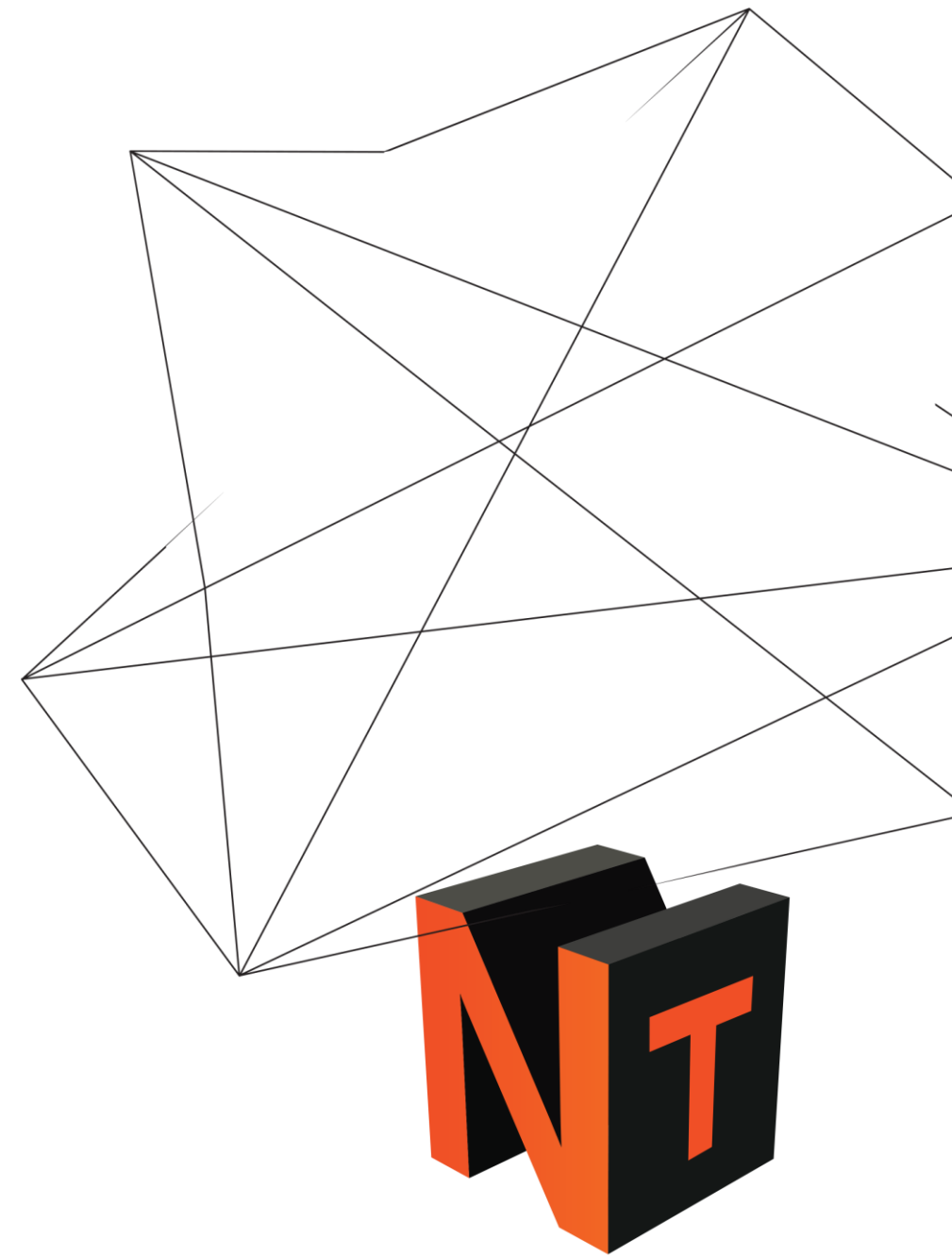
Azure Files snapshots



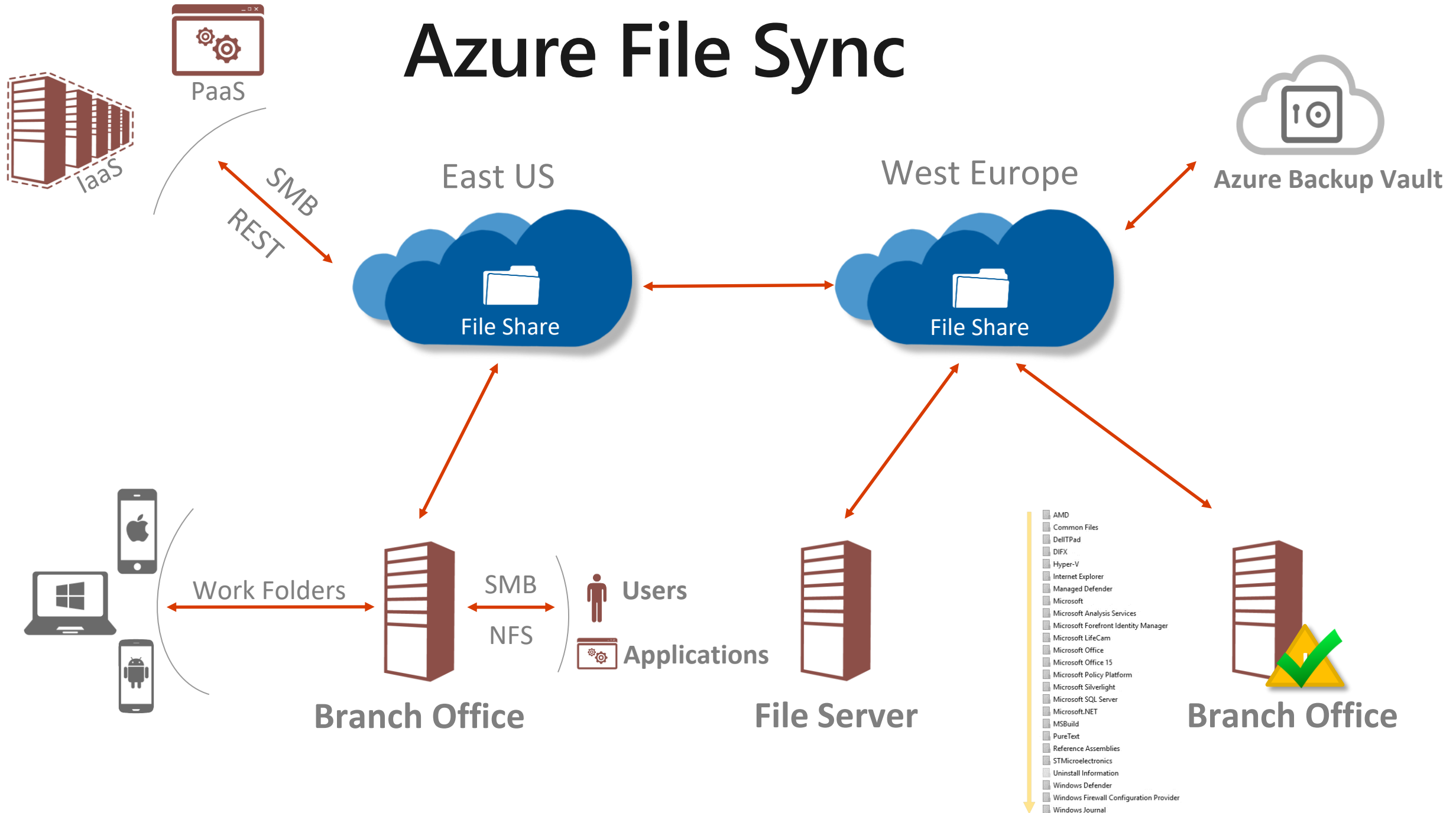
Demo

Azure Files Using Azure Files Snapshots

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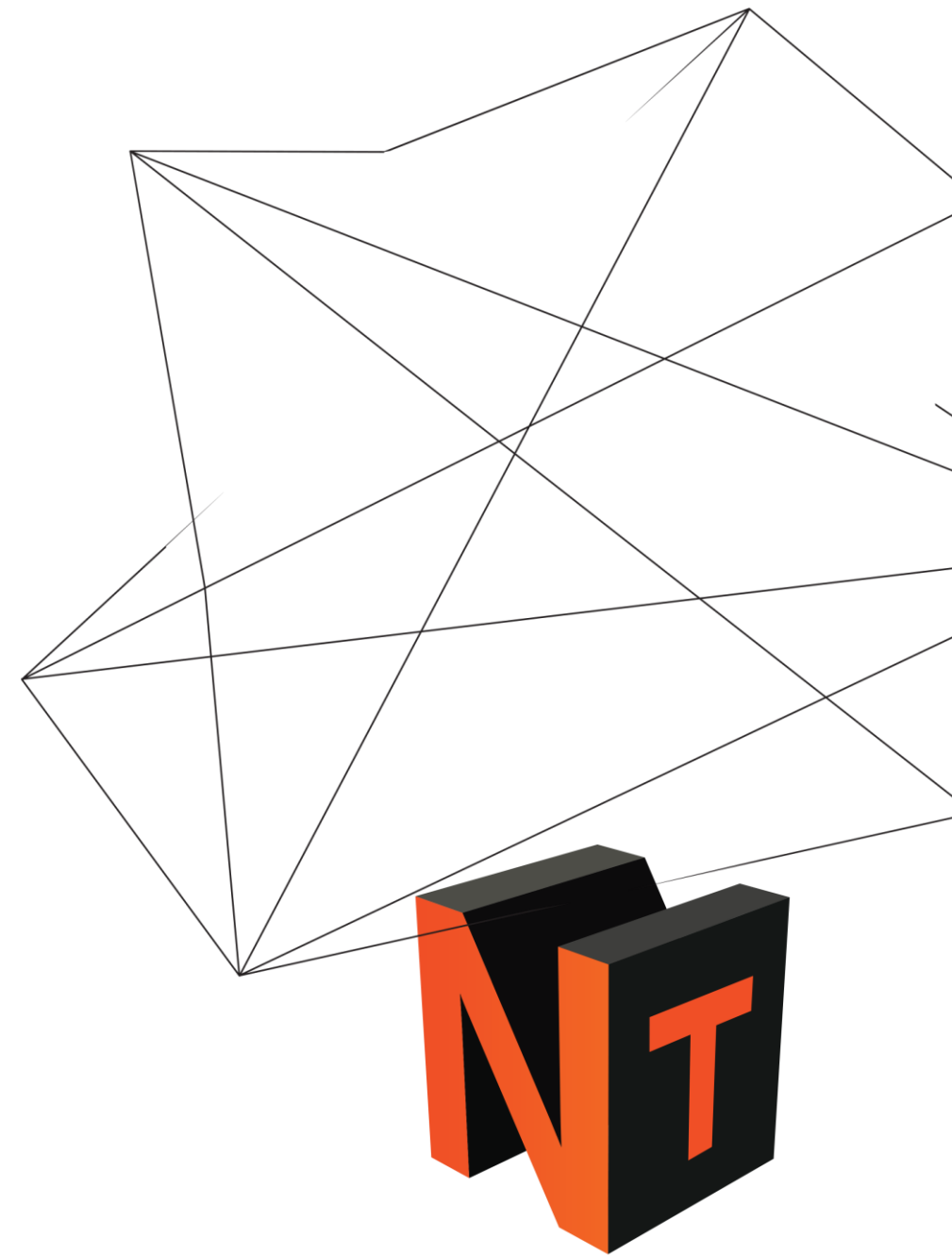
Azure File Sync



Demo

Establishing Azure File Sync
File Sync cloud tiering
Rapid namespace sync

#ntk18



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

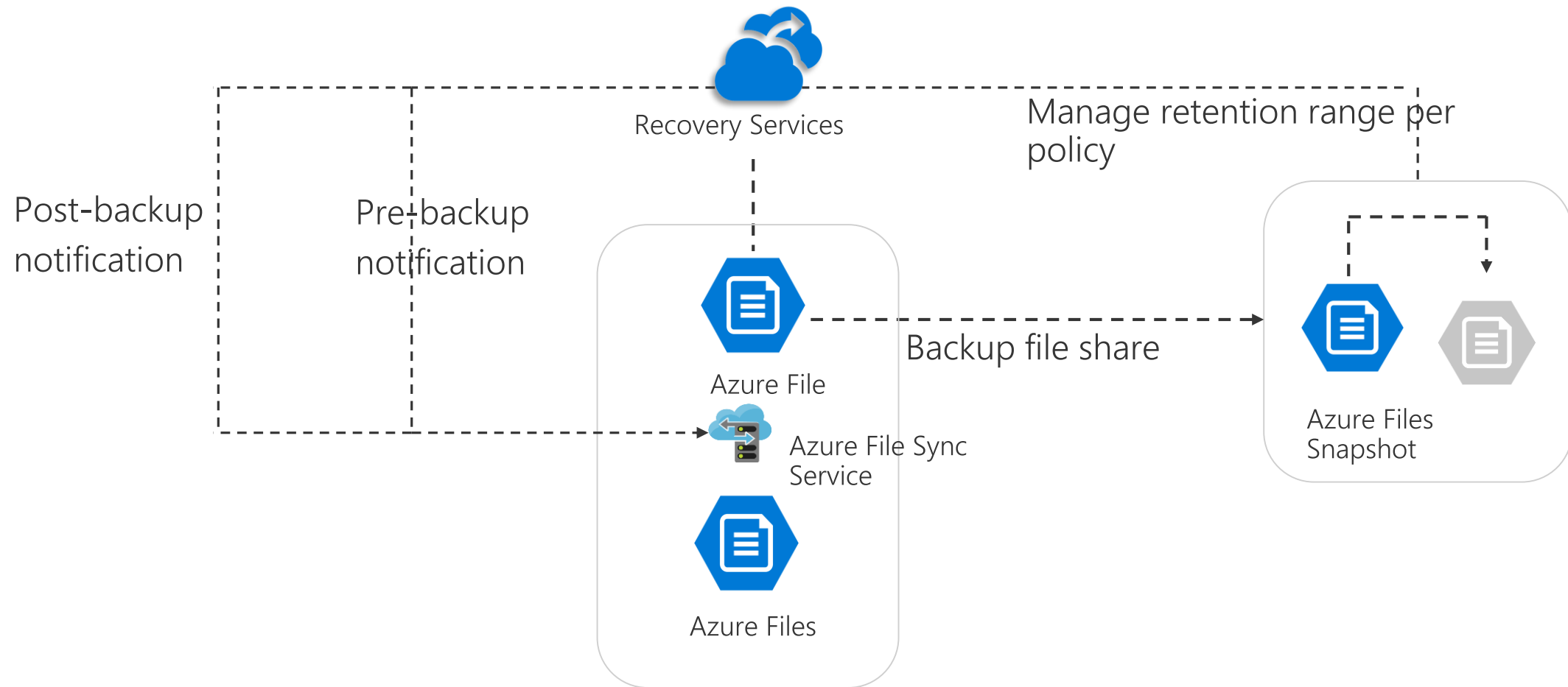
Integrated cloud backup

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



No additional infra

Sync-aware backup

Item level restore

Summary

Azure Files can 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 (preview) deployment

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

Frequently asked questions for Azure Files

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

Microsoft Azure File Sync - seamlessly extend file services across servers and cloud

<https://myignite.microsoft.com/videos/54963>

Azure Files Pricing

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