Azure: Backup and Recovery

Вадим Попов, Head of Consulting Division, MCP,MCP+I, MCSA,MCSE,MCTS,MCIP,MCT,OSA Comparex Ukraine, vadym.popov@comparex.com

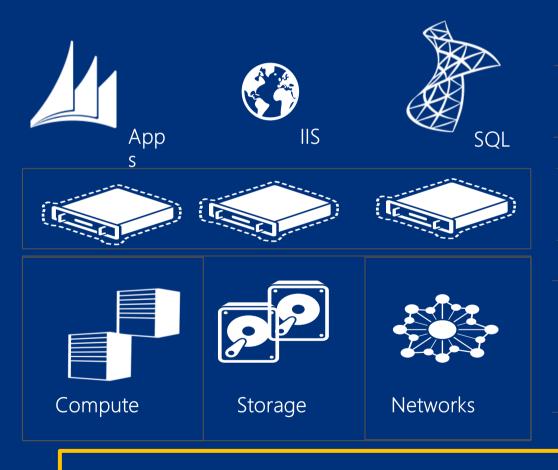
Microsoft Azure

Windows Server

Microsoft System Center



Microsoft's Disaster Recovery Stack



e.g. SQL AlwaysOn

VM Replication Metalicaper-V Replica or InMage Scout

Storage Replication

DR Orchestration
with
Microsoft Azure Site
Recovery

Hyper Hyper ware or Physical



Protect your data Powerful solutions for SMB







With Microsoft, customers can recover quickly from human error, service outages, and disasters with cost-effective solutions that automate protection and recovery of key data and applications and that are cloud-integrated for reliable off-site protection.

Microsoft Azure Backup Extending Windows Server Backup into the cloud

Reliable offsite data protection: Backups are encrypted before transmission and stored encrypted in Microsoft Azure.

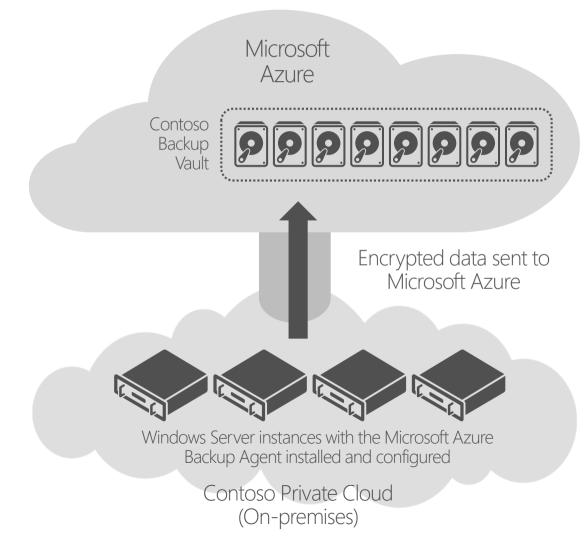
Backups are off-site, away from your datacenter, protected by reliable Azure storage.

Simple, and integrated solution: Integrates with GUIs of Windows Server Backup or System Center Data Protection Manager.

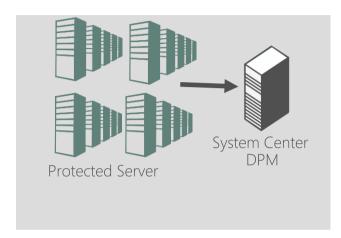
Efficient and flexible backup and recovery: Incremental backup transfers only delta changes to the cloud.

Supports Point-in-Time Recovery of multiple versions of your data.

Configurable data retention policies, data compression, and data transfer throttling offer added flexibility and efficiency.

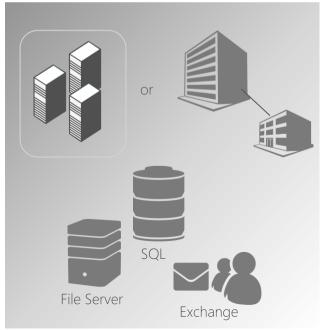


When to choose Windows Azure Backup



Already using System Center Data Protection Manager?

Windows Azure Backup integrates easily.



Small business or branch office?

Windows Azure Backup integrates with the inbox Windows Server backup tool.

Suitable for any workload.

Application and workloads which can be backed up to Azure

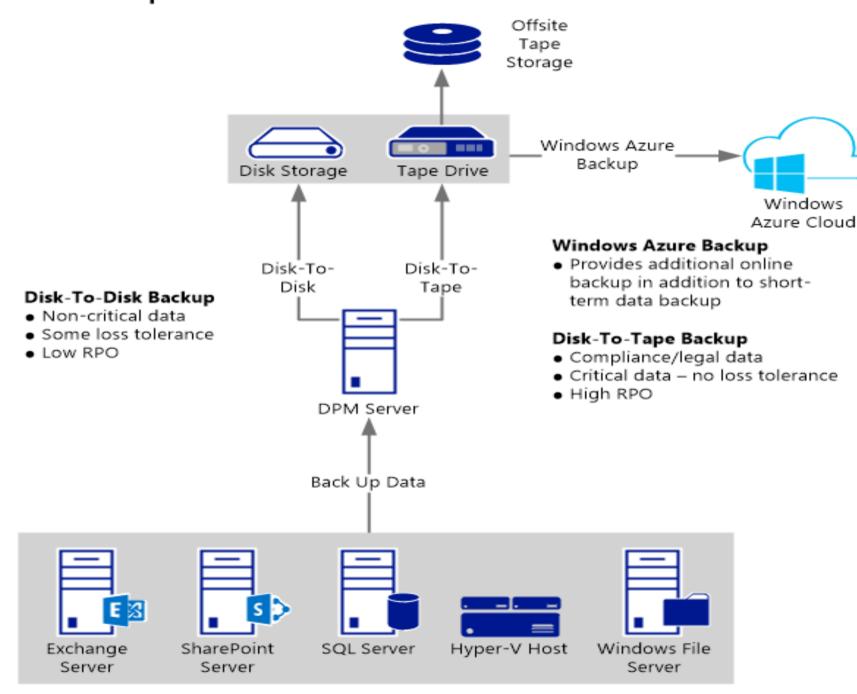
Combined with SCDPM Azure Backup can backup:

- •File & folders from enterprise client, server machines
- •Host-level virtual machine backups of Microsoft Hyper-V VMs
- •Microsoft SQL Server
- Microsoft SharePoint
- Microsoft Exchange

Got bigger and larger workload to Protect?

Easy integration with with DPM

Data Backup Solution



Azure laaS workload protection Protection of key workloads running in Microsoft Azure laaS

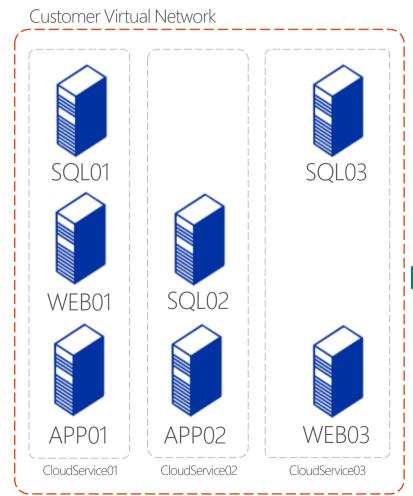
Backup Azure virtual machines

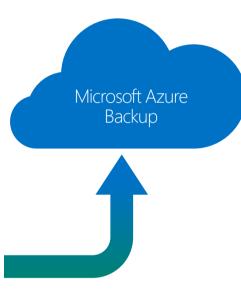


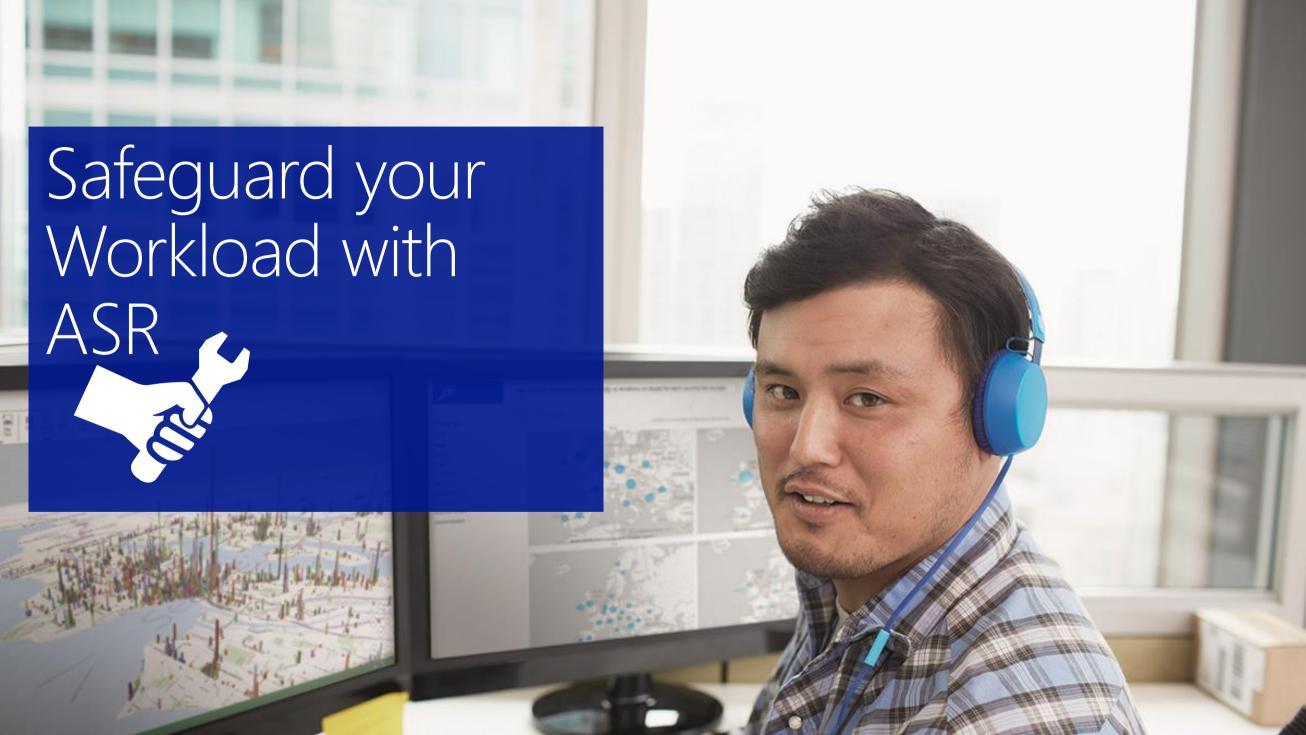
Virtual machines are protected with a policy and scheduled backups created.

Azure Backup service creates a backup job for each virtual machine that needs to be backed up.

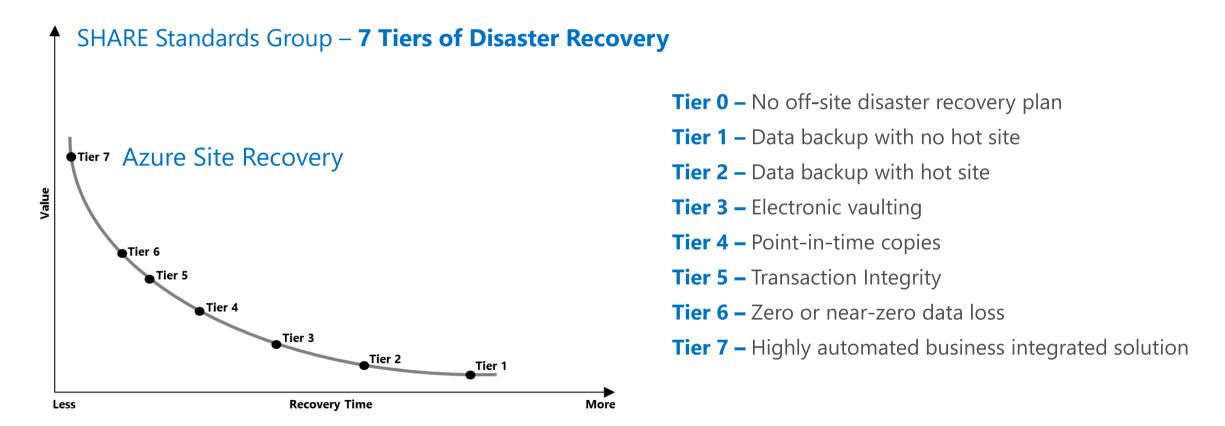
As a part of the backup operation, the Azure Backup service issues a command to the backup extension in each virtual machines to flush all writes and take a consistent snapshot.







Safeguard your applications Azure Site Recovery: one solution for multiple infrastructures



Protect your data, your applications, or both—at your site, a hoster's site, or in Microsoft Azure

Azure Site Recovery

• ASR provides <u>single DR solution</u> which works <u>across platforms</u> (Hyper-V, VMWare, Physical) <u>across clouds</u> (public, private and service provider) and <u>across workloads</u> to provide a range of RTO/RPO using multiple channels (Replica, Scout, SAN etc.).

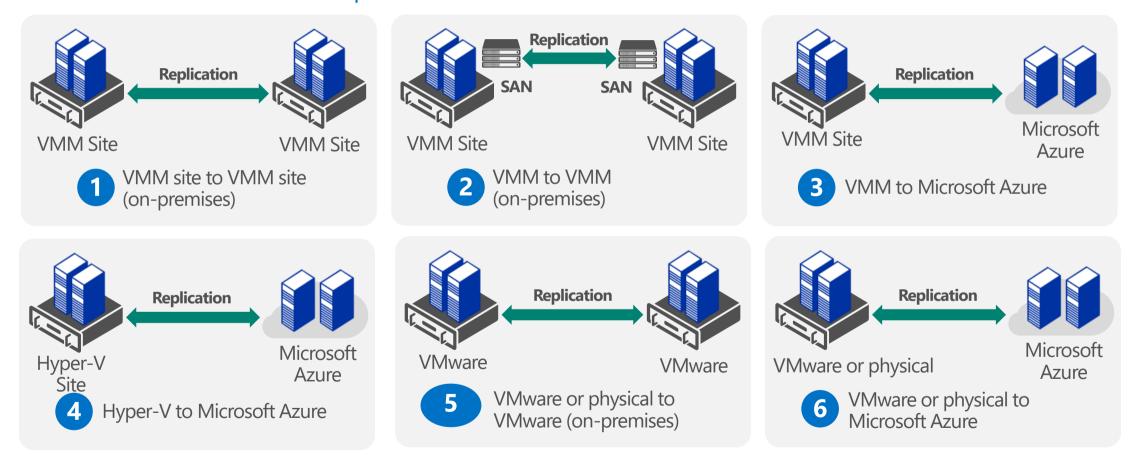
Heterogeneous

Hybrid Solution

Workload Aware

Microsoft Azure Site Recovery

One solution for multiple infrastructures

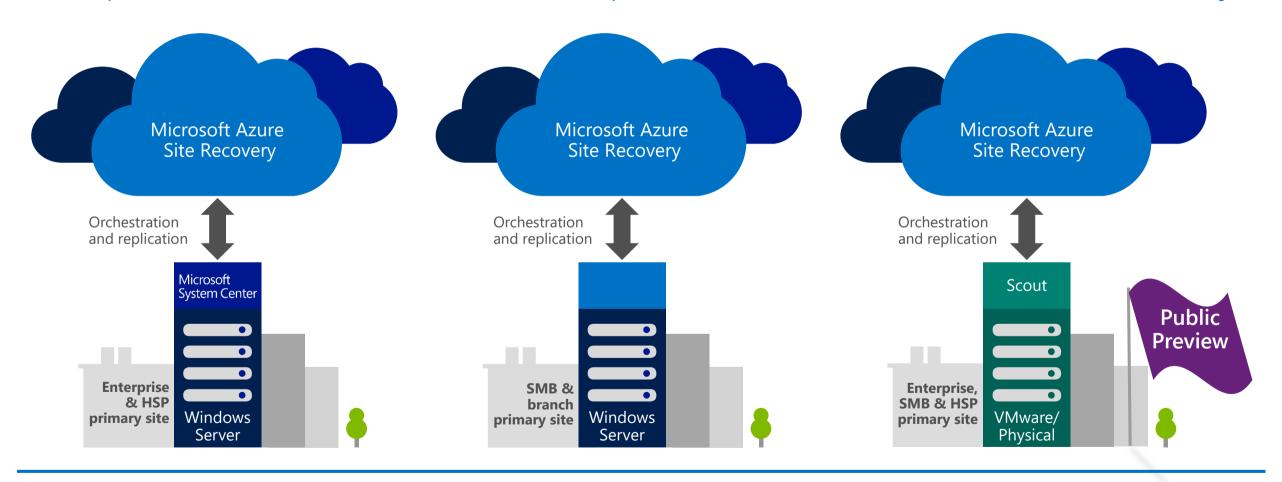


Protect important applications by coordinating the replication and recovery of private clouds across sites.

Protect your applications to your own second site, a hoster's site, or even use Microsoft Azure as your disaster recovery site.

Protect your applications

On-premises to Microsoft Azure protection with Azure Site Recovery



Key features include:

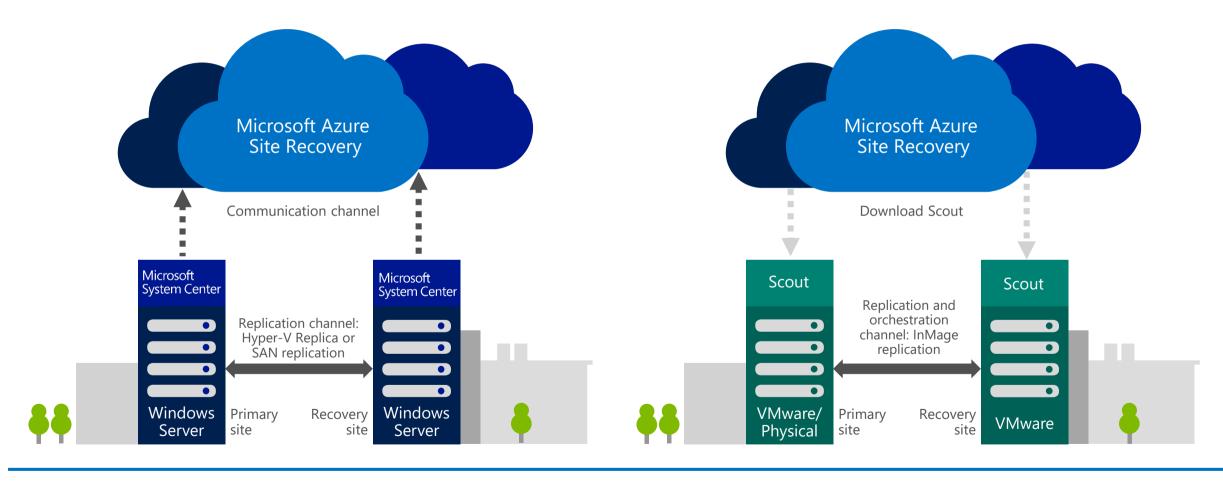
Use Azure as your disaster recovery site Automated VM protection and replication Remote health monitoring Customizable recovery plans
No-impact recovery plan testing
Orchestrated recovery of tiered applications

New: Replication into Azure for SMBs and remote branch offices without System Center

Support for heterogeneous environments

Protect your applications

On-premises to on-premises protection with Azure Site Recovery



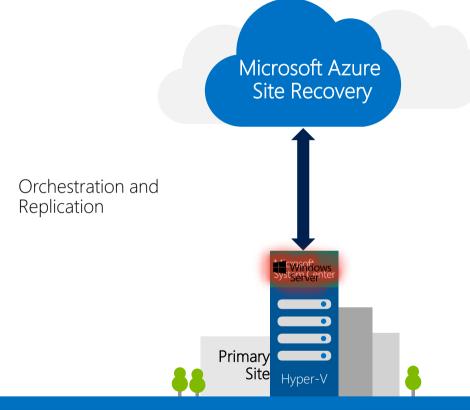
Key features include:

Automated VM protection and replication Remote health monitoring Customizable recovery plans Integration with available investments
No-impact recovery plan testing
Orchestrated recovery of tiered applications

Support for heterogeneous environments

ASR for SMBs to Azure

On-premises to Azure protection (Site-to-Azure)



1 CUSTOMER TO AZURE
2 SMB TO AZURE

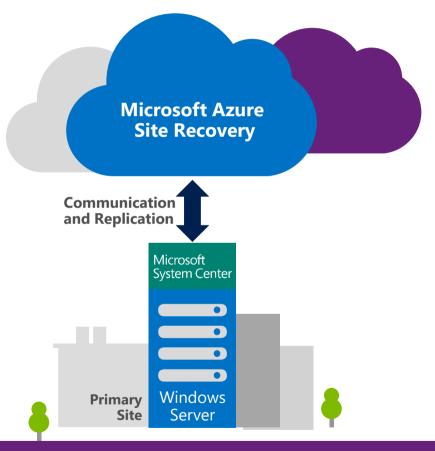
Key features include:

Automated VM protection and replication Remote health monitoring Near zero RPO No-impact recovery plan testing
Customizable recovery plans
Minimal RTO – few minutes to hours

Orchestrated recovery when needed Replicate to – and recover in – Azure Heterogeneous physical and virtual support

Orchestrated Disaster Recovery

for Hyper-V VMs, between on-premises locations & Microsoft Azure

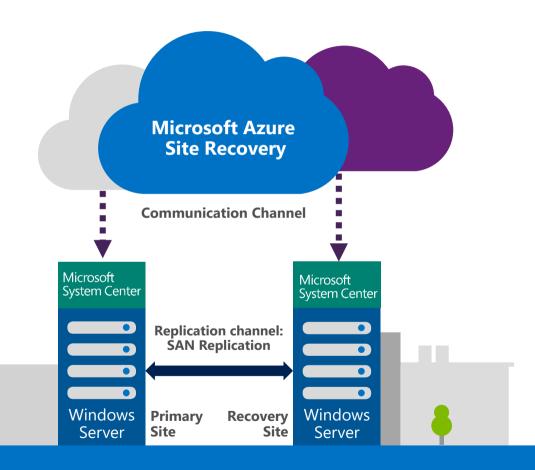


Key features include:

Automated VM protection and replication Remote health monitoring Customizable recovery plans No-impact recovery plan testing Orchestrated recovery when needed

Orchestrated Disaster Recovery

Between on-premises and/or service provider locations



SAN Replication

Harness the power of your SAN Investments

SAN Replication

Take advantage of SAN Replication capabilities provided by enterprise storage partners, across both FC & iSCSI storage

Supports asynchronous replication for flexibility or synchronous replication for the lowest RPO/RTO

Key Value Propositions

Full Disaster Recovery orchestration for SAN storage

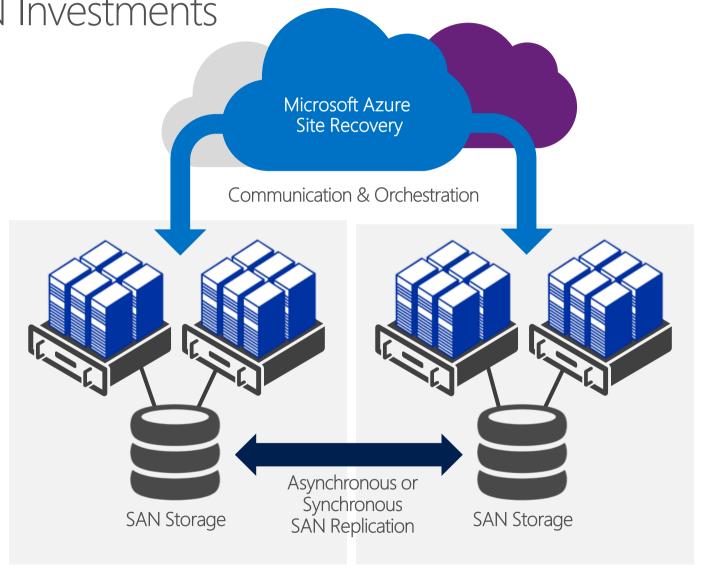
Support for applications that require DR with shared storage, such as SQL Server, SharePoint, SAP etc.

Integrated with Azure Site Recovery for streamlined, consistent experience.

Integration

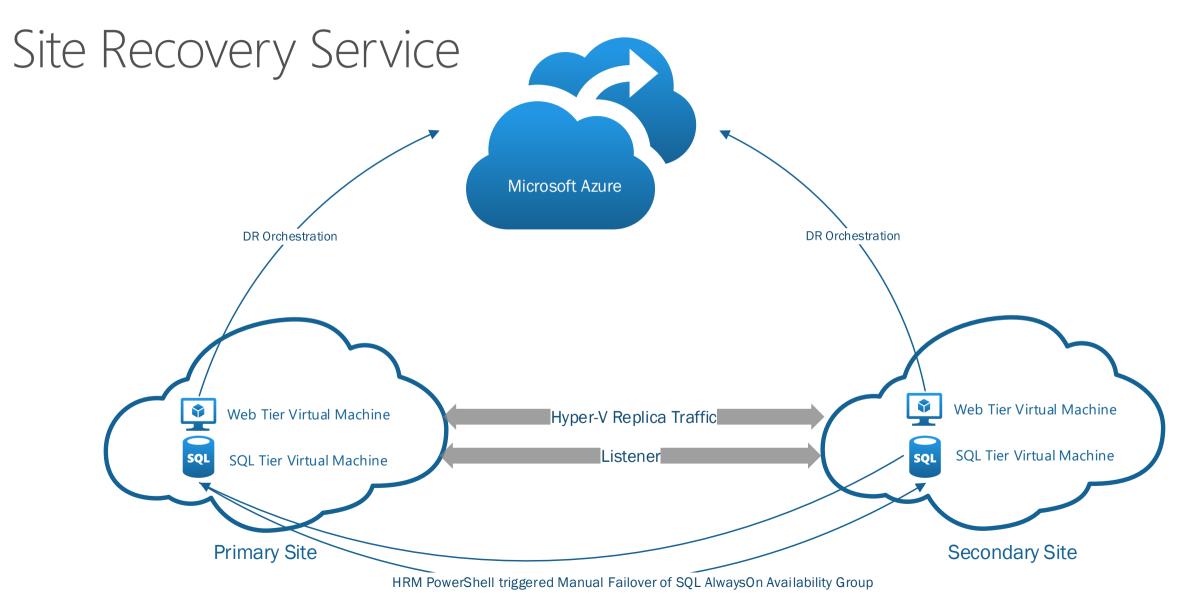
Integration with SAN via SMI-S – SCVMM will discover and enumerate existing storage.

SCVMM provides comprehensive SAN management capabilities within console.

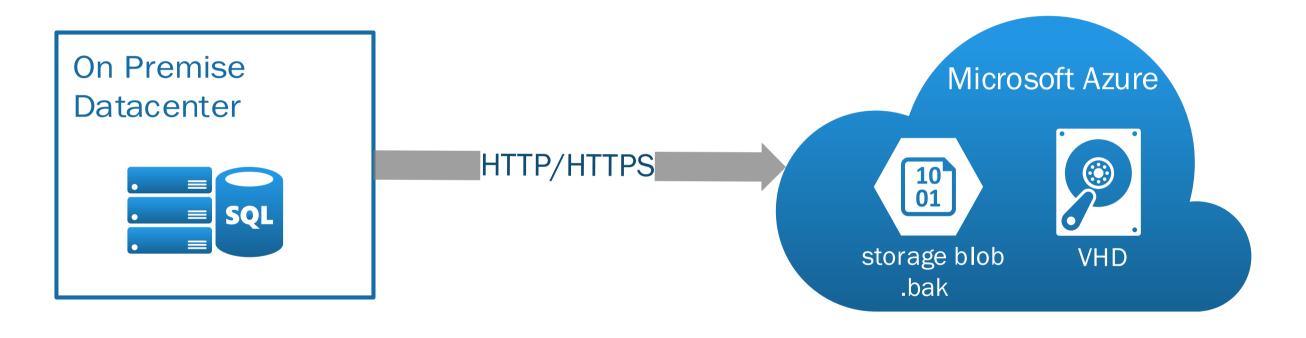


Business Continuity Solutions SQL Server Workloads

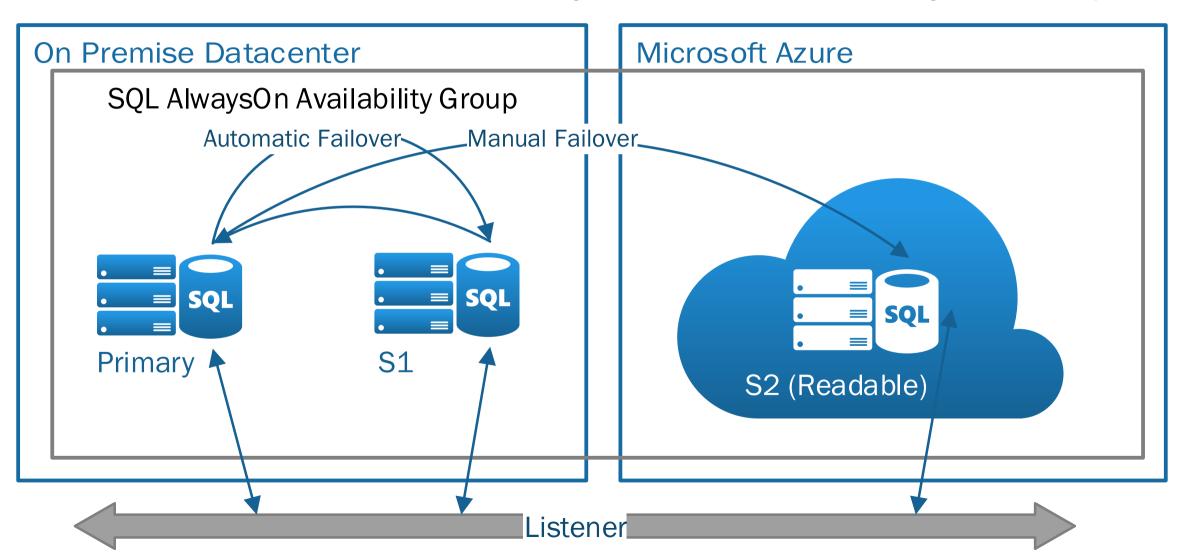
On-Premises SQL Server Protected by Microsoft Azure



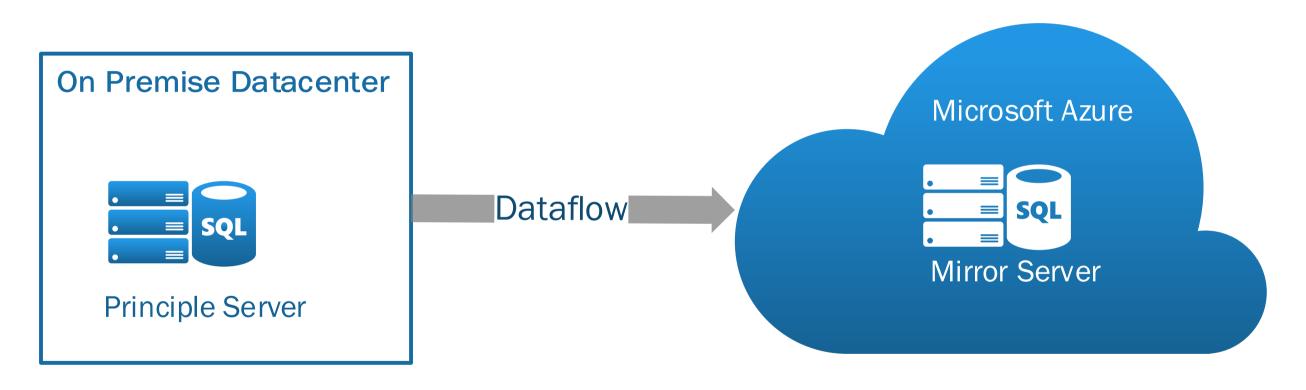
SQL Server Backup with Microsoft Azure Storage



On-Premises SQL Server Protected by On-Premises and Microsoft Azure AlwaysOn Availability Groups



SQL Server Protected by Database Mirroring with the Mirror in Azure VM



DEMO