

# Understand and Implement Azure Backups

Protect your virtual machines by using Azure Backup



Introduction to Azure Backups

Azure Backup features and scenarios

Back up an Azure virtual machine

Restore virtual machine data

Summary



### Azure Backups

- Cloud based backup solution
- Can be used for on-premises workloads
- Takes point-in-time backups of data from different sources
- Azure VMs and workloads are backed up using backup extension
- On-premises workloads can be backed up using MARS agent
- Backups are stored in Azure Storage

### Azure Backup


Maintain copies of stateful data to go back in time

### Azure Site Recovery

Replicates the data in almost real-time and allows for failover

## Why Use Azure Backups?

1



**Zero-infrastructure Backup**

Eliminates backup infrastructure or storage deployment and management requirements

2



**Long-term Retention**

Meet rigorous compliance and audit requirements

3



**Security**

Provides security to your backup data in transit and at rest


4



**High Availability**

High availability and Resiliency using different replications

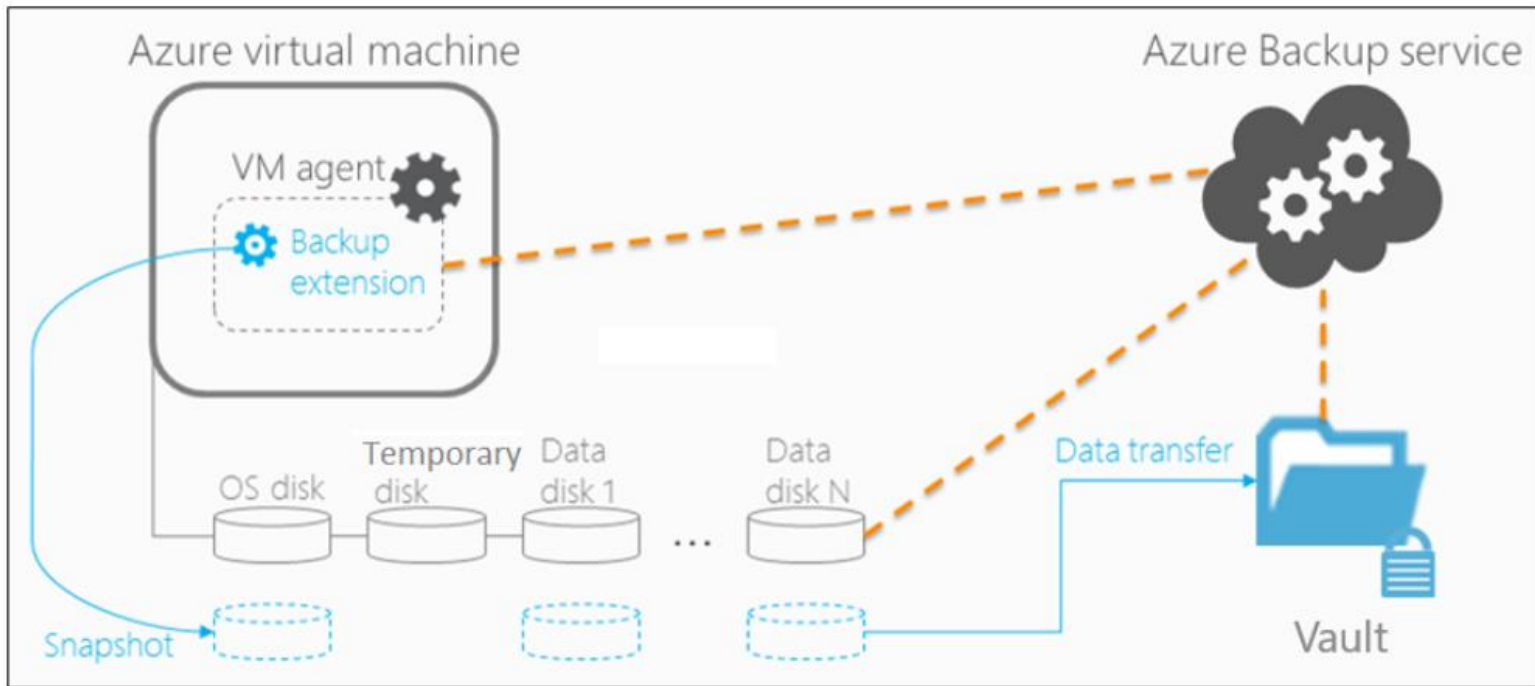
5




**Centralized Monitoring & Mgmt.**

Built-in monitoring and alerting capabilities in Recovery Services Vault

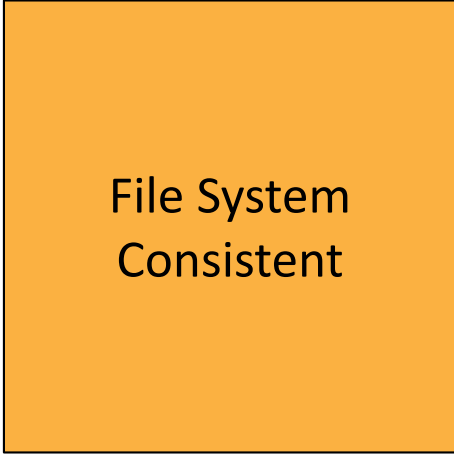
## Backup Azure VM using Azure Backup



## Understanding Snapshots



Application  
Consistent



File System  
Consistent



Crash Consistent

# Demo



## Restore Virtual Machine Data



Create a new virtual machine from a restore point



Restore a virtual machine disk. Can be used to create a new virtual machine



Replace a disk on the existing virtual machine



Restore Azure virtual machines in the secondary region



# Demo



# Summary



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Download the training material from – <https://azure-training.com>

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