

AZ-104

Administer Data Protection



AZ-104 Course Outline

- 01: Administer Identity
- 02: Administer Governance and Compliance
- 03: Administer Azure Resources
- 04: Administer Virtual Networking
- 05: Administer Intersite Connectivity
- 06: Administer Network Traffic Management
- 07: Administer Azure Storage
- 08: Administer Azure Virtual Machines
- 09: Administer PaaS Compute Options
- 10: Administer Data Protection <
- 11: Administer Monitoring

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Learning Objectives - Administer Network Protection

- Introduction to Azure Backup
- Configure Virtual Machine Backups
- Lab 10 Implement Data Protection

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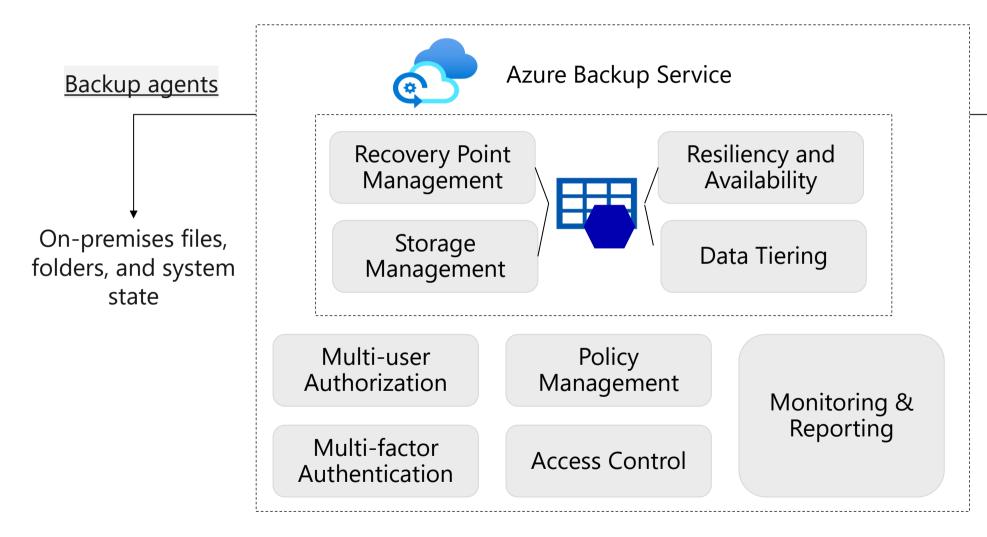
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Introduction to Azure Backup



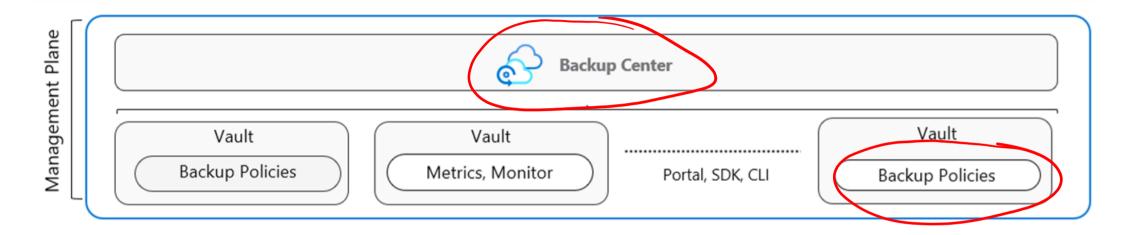
What is Azure Backup?



Built-in backup

- Azure Virtual Machines
- Azure Managed Disks
- Azure Files Shares
- SQL Server in Azure VMs
- SAP HANA databases in Azure VMs
- Azure Database for PostgreSQL servers
- Azure Blobs

How Azure Backup works (vaults and policies)



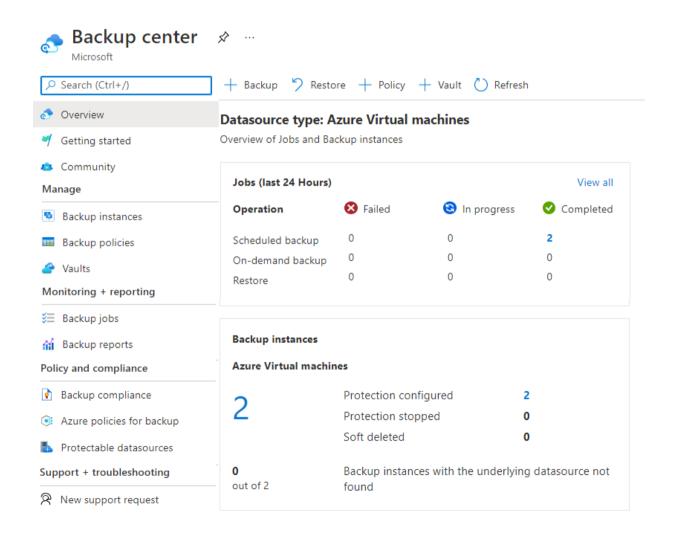
- Vaults store backup copies, recovery points, and backup policies
- Two types of vaults: Backup vault and Recovery Service vault
- Backup Policies define the data source, storage vault, and backup schedule
- The Backup Center provides a single unified management experience (next slide)

Implement Azure Backup Center

Single pane of glass to manage backups across a large and distributed Azure environment

Datasource-centric management focused on what you are backing up

Connected experiences with native integrations that enables management at scale



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Learning Recap – Introduction to Azure Backup



Introduction to Azure Backup

Check your knowledge questions and additional study

Configure Virtual Machine Backups



Explore options to protect virtual machine data

Snapshots

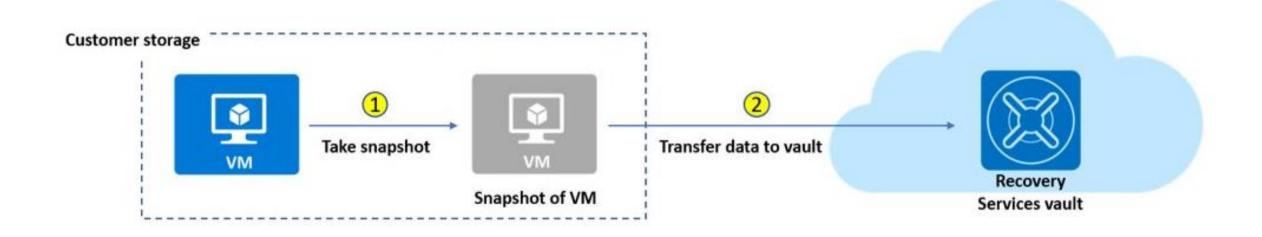
Azure Backup

Azure Site Recovery

Managed snapshots provide a quick and simple option for backing up VMs that use Managed Disks Azure Backup supports application-consistent backups for both Windows and Linux VMs

Azure Site Recovery protects your VMs from a major disaster scenario when a whole region experiences an outage

Create virtual machine snapshots in Azure Backup



Use snapshots taken as part of a backup job

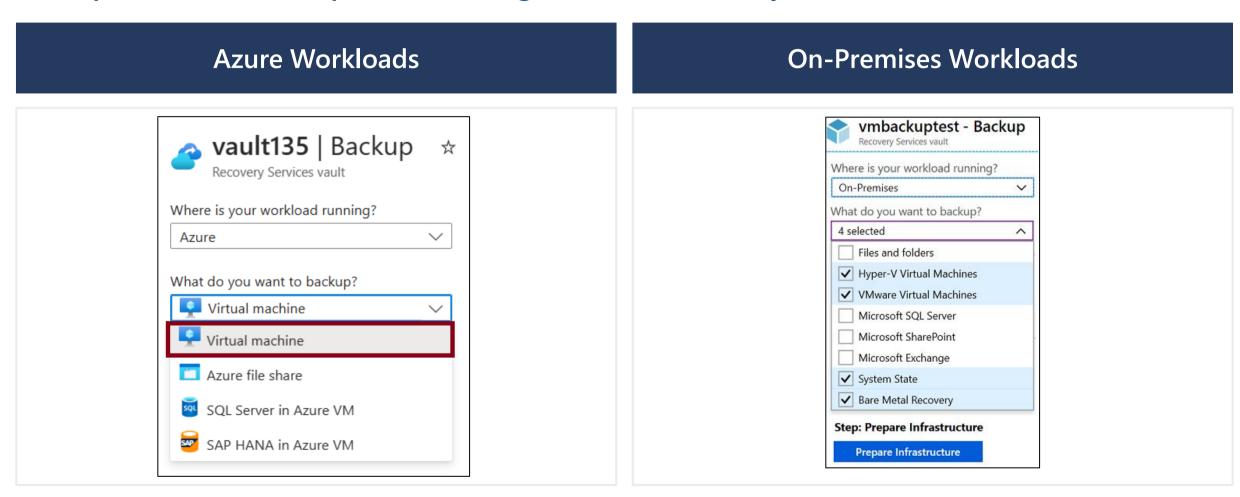
Reduces recovery wait times

– don't wait for data transfer
to the vault to finish

Configure Instant Restore retention (standard or enhanced)

Set up Azure Recovery Services vault backup options

Multiple servers can be protected using the same Recovery Services vault



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Backup Virtual Machines

Create a recovery services vault

Use the Portal to define the backup

Backup the virtual machine

1

2

3

Use a Recovery Services Vault in the region where you are performing your Virtual Machine backups and choose a replication strategy for Vault

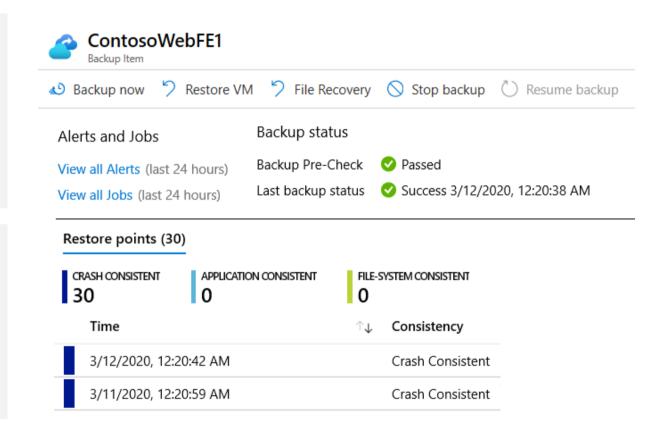
Take snapshots (recovery points) of your data at defined intervals. These snapshots are stored in recovery services vaults

For the Backup extension to work, the Azure VM Agent must be installed on the Azure virtual machine

Restore Virtual Machines

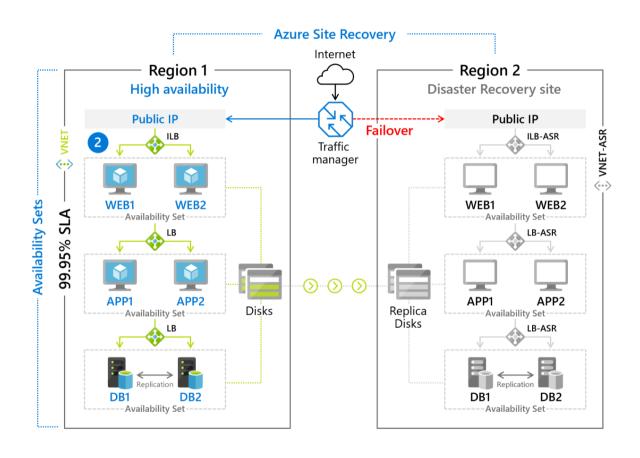
Once you trigger the restore operation, the Backup service creates a job for tracking the restore operation

The Backup service also creates and temporarily displays notifications, so you monitor how the backup is proceeding



Implement Azure Site Recovery

- Manages the orchestration of disaster recovery
- Replicates workloads continuously from a primary location or region to a secondary location
- Failover to shift to the secondary location; failback to return to the primary location



Learning Recap – Configure Virtual Machine Backups



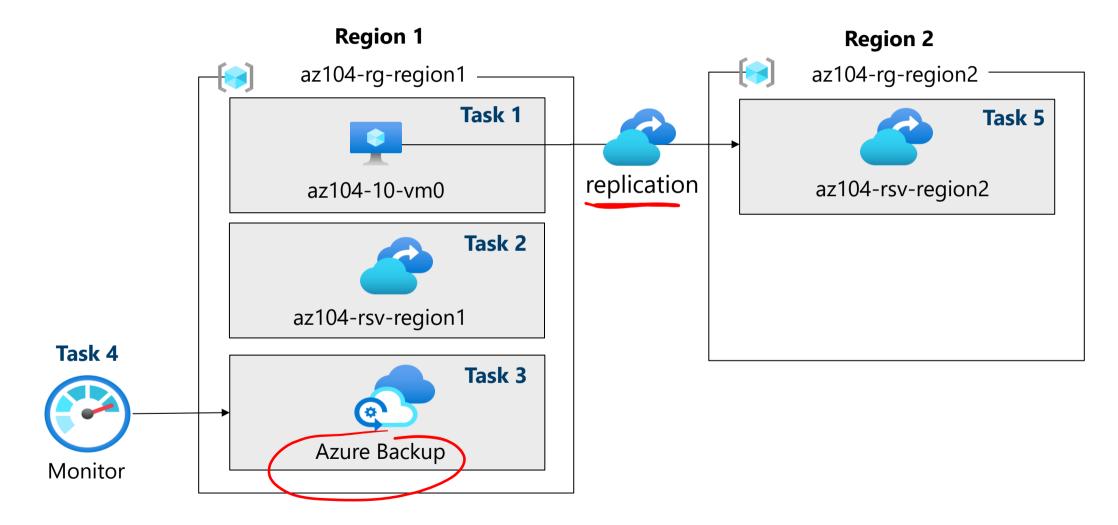
Check your knowledge questions and additional study

- Introduction to Azure Backup
- Protect your virtual machines by using Azure Backup
- Implement hybrid backup and recovery with Windows Server laaS
- Protect your Azure infrastructure with Azure Site Recovery

Lab – Implement Data Protection



Lab 10 – Architecture diagram



End of presentation

