Azure Backup and Disaster Recovery Specialist - Cloud Backup Administrator

Duration: 6 days - 48 hrs

Note: Best view of the document in Web Layout mode.

Understanding Azure Subscription and Entra ID

Azure Architecture (Logical and Physical – Key Benefits) and Design Principles Azure WAF (Well Architected Framework) and CAF (Cloud Adoption Framework) Understanding Storage Architecture in Azure (in context to backup) About Virtual Networks

Vnet Networking, Network Connectivity types (Vnet Peering, S2S VPN, P2S VPN, Express Route)

Basics of Service Endpoint, Private Endpoint, Private Link (reference diagrams)

Detailed Understanding for Entra ID (Editions, Features, Managing Identities, Authentication, Authorization, Zero Trust, Security, Governance and Compliance)

Explore identity in Microsoft Entra ID
Implement an identity management solution
Implement an Authentication and Access Management solution
Plan and implement an identity governance strategy
B2B and B2C Identities

Labs:

Microsoft Identity and Access Administrator

Manage user roles
Configure external collaboration settings
Add guest users to the directory
Enable multi-factor authentication
Configure and deploy self-service password reset
Implement and test a conditional access policy
Manage the lifecycle of external users in Microsoft Entra Identity

Governance settings

Assign Azure resource roles in Privileged Identity Management Using Azure Key Vault for Managed Identities

Backup and disaster recovery for your data and applications in Azure

What is a disaster?

Not about avoiding failures, but responding to failures What is resiliency?

Not about avoiding failures, but responding to failures

Types of failures you need resilience from

Why do you need a BCDR strategy?

What is the difference between Disaster recovery & backup?

Disaster Recovery concepts

The Business Value of Azure Site Recovery and Azure Backup

Overview of Azure Backup and Disaster Recovery

What is Azure Business Continuity Center (ABC Center) – (Azure Business Continuity Center is now Resiliency)?

Why should I use Azure Business Continuity Center?

What can I manage with ABC center?

Support matrix for Azure Business Continuity Center

Supported solutions and data sources

Supported scenarios

Unsupported scenarios

About Security levels

About Azure Backup

Reliability in Azure Backup

What does Azure Backup do?

How does Azure Backup work?

Where is data backed up?

Backup agents

Backup types

Backup features

Backup policy essentials

What can I back up?

Azure Backup architecture and components

Architecture: Built-in Azure VM Backup

Architecture: Direct backup of on-premises Windows Server machines or

Azure VM files or folders

Architecture: Back up to DPM/MABS Architecture: Azure VM storage

Backup and restore Azure VMs with premium storage

Backup and restore managed disks

Data isolation with Azure Backup (Vaulted Backup)

Pre-requisites for Azure Backup Service

Demo:

Getting familiar with the Azure backup service - walkthrough

Types of Vault (Backup Vault and Recovery Service Vault)

Backup vaults overview

Key features

Storage settings in the Backup vault

Encryption settings in the Backup vault

Role-Based Access Control (RBAC) in Backup vault

Cross Region Restore support for PostgreSQL using Azure Backup

Recovery Services vaults overview

Key features

Storage settings in the Recovery Services vault

Encryption settings in the Recovery Services vault Azure Advisor

Demo:

Getting familiar with Azure Backup and Recovery Service Vault -

walkthrough

Setting up and Managing Backup using Azure Backup Vault

Backup vault

Understanding various ways of creating Backup Vault

Understanding Managed Identities in context to Backup workloads

Role-Based Access Control (RBAC) in Backup vault

Create a Backup vault using Azure Business Continuity Center (now

Resiliency)

Backup Workloads supported

Azure Blob backup

About Azure Blob backup

How the Azure Blobs backup works?

Choose the Backup Tier -Operational and Vaulted

Support matrix for Azure Blobs backup

Azure Disk Backup

About Azure Disk Backup

Key benefits of Disk Backup

How the backup and restore process works

How does the disk backup scheduling and retention period work?

Azure Disk Backup support matrix

Monitor and manage the Backup vault

Understanding Restoration procedures

Manage vault lifecycle used for Azure Backup (View vaults using Azure Business Continuity Center (now Resiliency)

Delete a Backup vault (Proper way to delete Backup Vault)

Demo:

Understanding components of Backup Vault (walkthrough with setup

wizard)

Create backup protection policies for your resources

Backup and Restore Azure workloads (VM disks, Azure Blob Storage) using

Backup Vault

Lab:

Backup and Restore Azure workloads (VM disks, Azure Blob Storage) using

Backup Vault

Setting up and Managing Backup using Azure Recovery Service Vault

Recovery Service Vault

Understanding various ways of creating Recovery Service Vault

Understanding MARS Agent and its usage

Role-Based Access Control (RBAC) in Backup vault

Create a Recovery Service Vault using Azure Business Continuity Center (now

Resiliency)

Backup Workloads supported

on Azure (VM's, File Share, SQL on Azure VM's, etc)

on OnPrem (Servers, Files - Folders, Bare Metal, System State,

Exchange, Sharepoint, SQL, etc.)

Azure Files Backup

About Azure Files Backup

Key benefits of Azure Files backup

Architecture for Azure Files backup

Azure Files by using the backup tiers - Snapshot tier and Vault-

Standard tier

How the backup process for Azure Files works?

How lease snapshot works?

How Cross Subscription Backup for Azure Files works?

Understanding MABS (Azure Backup Server)

Protection support matrix

Applications Backup

VM Backup

Linux

Unsupported data types

Monitor and manage the Recovery Service Vault

Understanding Restoration procedures

Manage vault lifecycle used for Azure Recovery Service Vault (View vaults using Azure Business Continuity Center (now Resiliency)

Delete a Recovery Service Vault (Proper way to delete Backup Vault)

Demo:

Understanding components of Recovery Service Vault (walkthrough with

setup wizard)

Create backup protection policies for your resources

Backup and Restore Azure workloads (VM, File Share) using Recovery

Service Vault

Backup and Restore On-Prem workloads using MARS agent (Hyper V VM)

Lab:

Backup and Restore Azure workloads (Azure VM's and Azure File Shares)

using Recovery Service Vault

Backup and Restore On Prem Workloads (Files and Folders) using Recovery

Service Vault

Disaster Recovery

Disaster Recovery (BC/DR)

About Azure Site Recovery

What does Site Recovery provide?

What can I replicate?

About role-based access control with Site Recovery

DR Architecture with Azure Site Recovery

Azure to Azure DR Architecture

Hyper V to Azure DR Architecture

VMware to Azure Architecture

About disaster recovery for on-premises apps

Why use Site Recovery for application replication?

Workload summary (reference architectures)

Disaster recovery for Active Directory and DNS

Protect a file server by using Azure Site Recovery

Disaster recovery for a multi-tier IIS-based web application

About Recovery Plans

What is Recovery Plan

Why use a recovery plan?

Understand Recovery Plan with a real scenario

About Networking for DR

Azure Traffic Manager with Azure Site Recovery

Network Security Groups with Azure Site Recovery

Demo:

Azure to Azure DR Scenario Hyper V to Azure Scenario

Lab:

Azure to Azure DR Hyper V to Azure DR

Plan - Design - Architect - Best Practices

What is the Azure Well-Architected Framework?

Microsoft Azure Well-Architected Framework pillars

Develop a disaster recovery plan for multi-region deployments

Guidance and Best Practices: Backup cloud and on-premises workloads to cloud

Additional References

Azure Backup glossary

Script Samples

Microsoft Q&A - Azure Backup