Hybrid Server Pro II: Advanced (V1)

Competency Assessment Objectives

Hybrid Infrastructure Administration

Perform Administrative Tasks

- Manage Event Logs
- Manage Services
- Collect data with Log Analytics Agents
- Collect performance counters in Azure
- Manage Alerts
- Collect monitoring data from VMs using Azure Diagnostics Extension
- Collect performance data from VMs using VM Insights

Migrate on-premises to Azure

- Migrate file shares to Azure
- Migrate Hyper-V hosts to Azure
- Migrate virtual machines
- Migrate virtual machine storage

Secure and Update Windows

Secure Windows

- Implement exploit mitigation policies
- Protect systems with Windows Defender for Endpoint
- Protect applications with Windows Defender Application Control
- Enable Windows Defender SmartScreen
- Implement group security policies



Secure Active Directory User Accounts

- Protect user credentials with Windows Defender Credential Guard
- Implement password policies
- Implement password block lists
- Deploy user rights policies
- Configure account security policy settings
- Delegate administrative control
- Implement authentication policies and silos for administrative accounts

Secure Active Directory Groups

- Audit group policies
- Manage Active Directory Administrator security groups

Secure Domain Controllers and VMs

- Harden domain controllers
- Use Azure Sential to monitor physical and virtual servers
- Use Azure Security Center to resolve security issues

Implement storage security

- Encrypt storage with Windows BitLocker
- Use Azure Disk Encryption
- Manage disk encryption keys in an laaS VM environment

Backup and Disaster Recovery

Backup Windows Servers

- Use Azure Recovery Services Vault to backup files and folders
- Create a new backup policy
- Use the Built-in backup agent to backup Azure VMs
- Modify a backup policy in Azure Recovery Services Vault



Recover Windows Servers

- Use Azure Recovery Services Vault to restore files and folders
- Recover a VM from a snapshot
- Recover a VM as a new Azure VM
- Restore a VM from backup
- Create a recovery plan for Azure
- Configure on-premises VM for site recovery
- Configure Azure VM for site recovery
- Restore objects from the Active Directory Recycle Bin

Replicate Windows Servers

- Configure VM replication for offsite or an Azure region
- Configure Hyper-V VM replication
- Manage a Hyper-V replica server
- Failover a VM

High Availability and Failover Cluster Management

Configure failover clusters

- Configure a Network Load Balancing cluster
- Create a failover cluster
- Configure a quorum in a failover cluster
- Setup a Floating IP address for a cluster
- Add a failover cluster role
- Configure a failover cluster
- Create a Scale-Out File Server



Manage failover clusters

- Manage cluster workload
- Implement load balancing for a cluster
- Add storage to a cluster
- Use Windows Admin Center to manage failover clusters
- Recover a failed node in the cluster
- Upgrade the operating system for a node in the cluster
- Initiate a workload failover
- Install Windows Updates on nodes in a cluster
- Configure and manage Storage Spaces Direct

Troubleshoot Windows Servers

Troubleshoot Windows

- Troubleshoot connectivity in a Hybrid environment
- Troubleshoot and resolve a boot failure

Troubleshoot Virtual Machines

- Troubleshoot VM performance
- Troubleshoot connectivity with VMs

