



cloudthat



Microsoft

EXAM AZ-801: CONFIGURING WINDOWS SERVER HYBRID ADVANCED SERVICES



Course Level:

Advanced

Course Duration:

4 Days

Course Overview:

This Microsoft AZ-801 certification training course from CloudThat teaches candidates how to configure advanced Windows Server services using hybrid and on-premises cloud technologies. In addition, candidates also learn how to migrate servers and workloads, implement and manage Windows Server high availability, monitor and troubleshoot Windows Server environments, secure Windows Server on-premises and hybrid infrastructures and implement disaster recovery.

Candidates taking up this exam AZ-801 should have expertise in performing tasks related to migration, security, monitoring, troubleshooting, high availability, and disaster recovery. This training provides candidates with skills to use administrative tools and technologies, including Microsoft Defender for Identity, PowerShell, Azure Migrate, Azure Arc, Windows Admin Center, Azure Automation Update Management, and Azure Monitor.










Prerequisites

- Extensive experience in working with Windows Server Operating Systems

Objectives

-  Secure Windows Server on-premises and hybrid infrastructures
-  Implement and manage Windows Server high availability
-  Implement disaster recovery
-  Migrate servers and workloads
-  Monitor and Troubleshoot Windows Server environments

Take your career to new heights with CloudThat's Azure Mastery Pass.
Become an expert in Azure with access to multiple Azure trainings throughout a year.

[Enroll Now!](#)

Course Outline

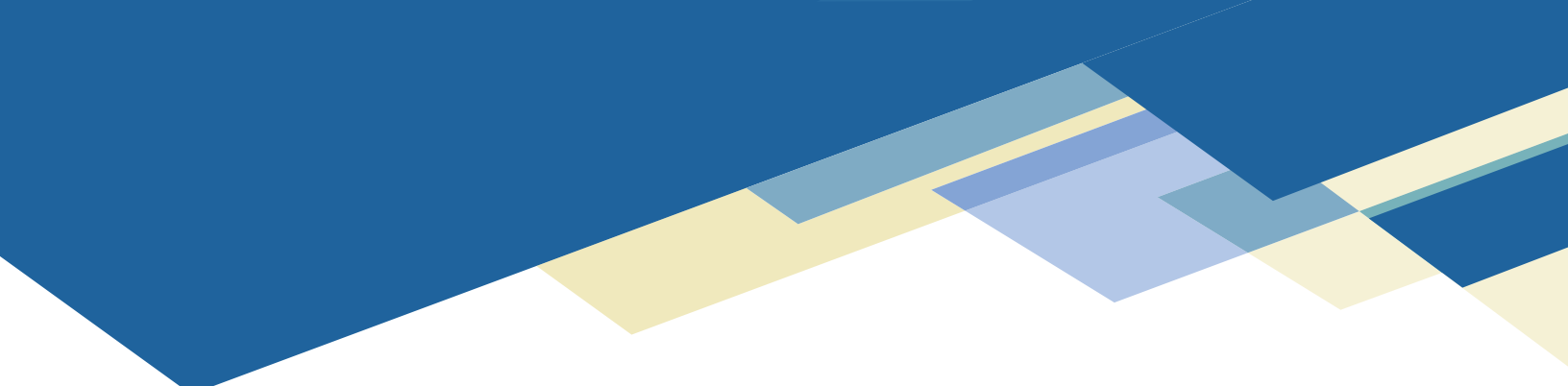
Module 1: Secure Windows Server On-premises and Hybrid Infrastructure

Secure Windows Server operating system

- Configure and manage exploit protection
- Configure and manage Windows Defender Application Control
- Configure and manage Windows Defender for Endpoint
- Configure and manage Windows Defender Credential Guard
- Configure SmartScreen
- Implement operating system security by using Group Policies

Secure a hybrid Active Directory (AD) infrastructure

- Configure password policies
- Enable password block lists
- Manage protected users
- Manage account security on a Read-Only Domain Controller (RODC)
- Harden domain controllers

- 
- Configure authentication policies silos
 - Restrict access to domain controllers
 - Configure account security
 - Manage AD built-in administrative groups
 - Manage AD delegation
 - Implement and manage Microsoft Defender for Identity


Identify and remediate Windows Server security issues by using Azure services

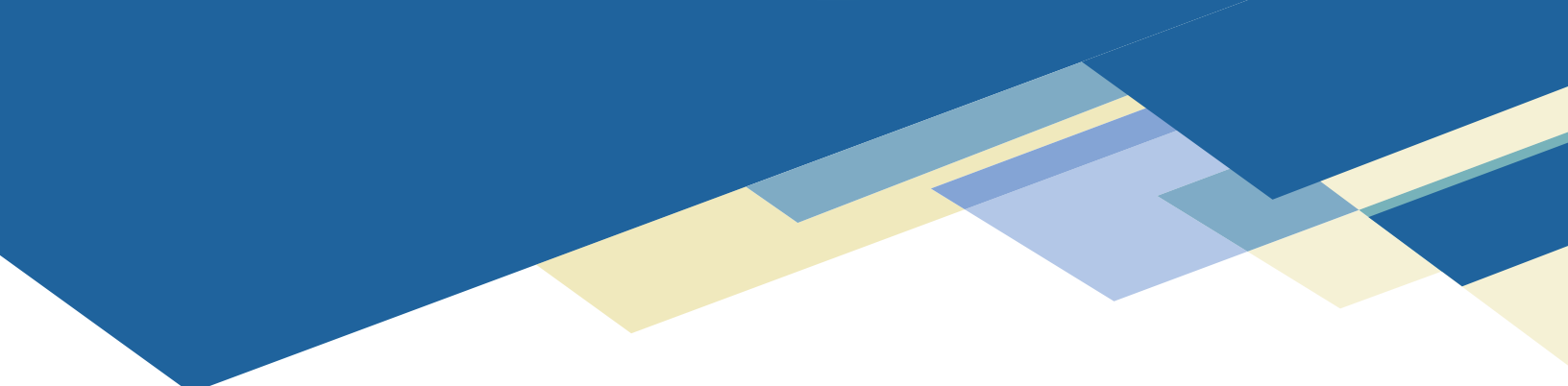
- Monitor on-premises servers and Azure IaaS virtual machines (VMs) by using Azure Sentinel
- Identify and remediate security issues on-premises servers and Azure IaaS VMs by using Azure Security Center

Secure Windows Server networking

- Manage Windows Defender Firewall
- Implement domain isolation
- Implement connection security rules


Secure Windows Server storage

- Manage Windows BitLocker Drive Encryption (BitLocker)
 - Manage and recover encrypted volumes
- 

- 
- Enable storage encryption by using Azure Disk Encryption
 - Manage disk encryption keys for IaaS virtual machines

Module 2: Implement and Manage Windows Server High Availability

Implement a Windows Server failover cluster

- Implement a failover cluster on-premises, hybrid, or cloud-only
 - Create a Windows failover cluster
 - Stretch cluster across datacenter or Azure regions
 - Configure storage for failover clustering
 - Modify quorum options
 - Configure network adapters for failover clustering
 - Configure cluster workload options
 - Configure cluster sets
 - Configure Scale-Out File Servers
 - Create an Azure witness
 - Configure a floating IP address for the cluster
 - Implement load balancing for the failover cluster
- 



Manage failover clustering


- Implement cluster-aware updating
- Recover a failed cluster node
- Upgrade a node to Windows Server 2022
- Failover workloads between nodes
- Install Windows updates on cluster nodes
- Manage failover clusters using Windows Admin Center

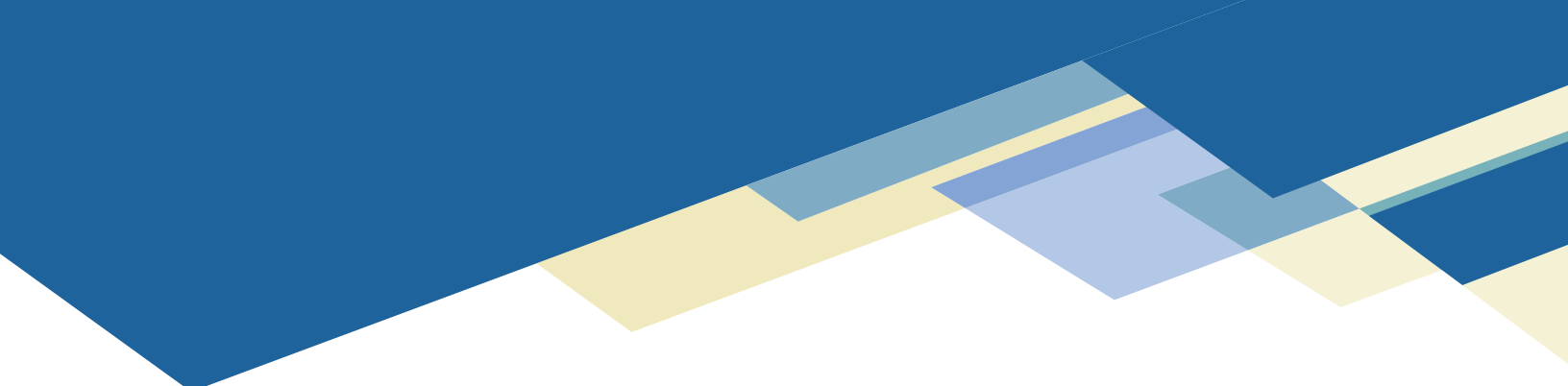
Implement and manage Storage Spaces Direct

- Create a failover cluster using Storage Spaces Direct
- Upgrade a Storage Spaces Direct node
- Implement networking for Storage Spaces Direct
- Configure Storage Spaces Direct

Module 3: Implement Disaster Recovery

Manage backup and recovery for Windows Server


- Backup and restore files and folders to Azure Recovery Services vault
 - Install and manage Azure Backup Server
- 

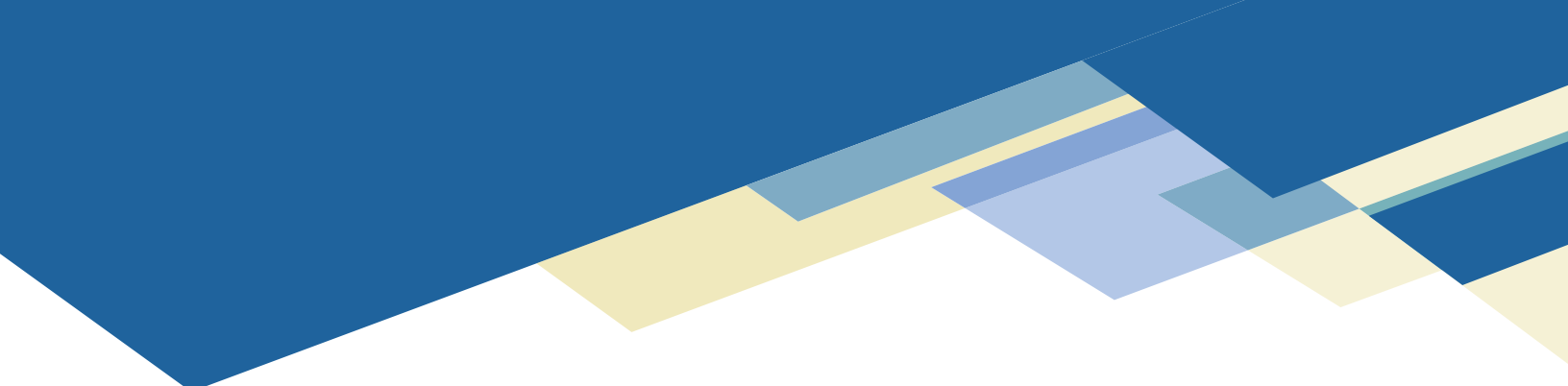
- 
- Backup and recover using Azure Backup Server
 - Manage backups in Azure Recovery Services vault
 - Create a backup policy
 - Configure backup for Azure Virtual Machines using the built-in backup agent
 - Recover a VM using temporary snapshots
 - Recover VMs to new Azure Virtual Machines
 - Restore a VM

Implement disaster recovery by using Azure Site Recovery

- Configure Azure Site Recovery networking
- Configure Site Recovery for on-premises VMs
- Configure a recovery plan
- Configure Site Recovery for Azure Virtual Machines
- Implement VM replication to secondary data center or Azure region
- Configure Azure Site Recovery policies

Protect virtual machines by using Hyper-V replicas

- Configure Hyper-V hosts for replication
 - Manage Hyper-V replica servers
- 

- 
- Configure VM replication
 - Perform a failover

Module 4: Migrate Servers and Workloads


Migrate on-premises storage to on-premises servers or Azure

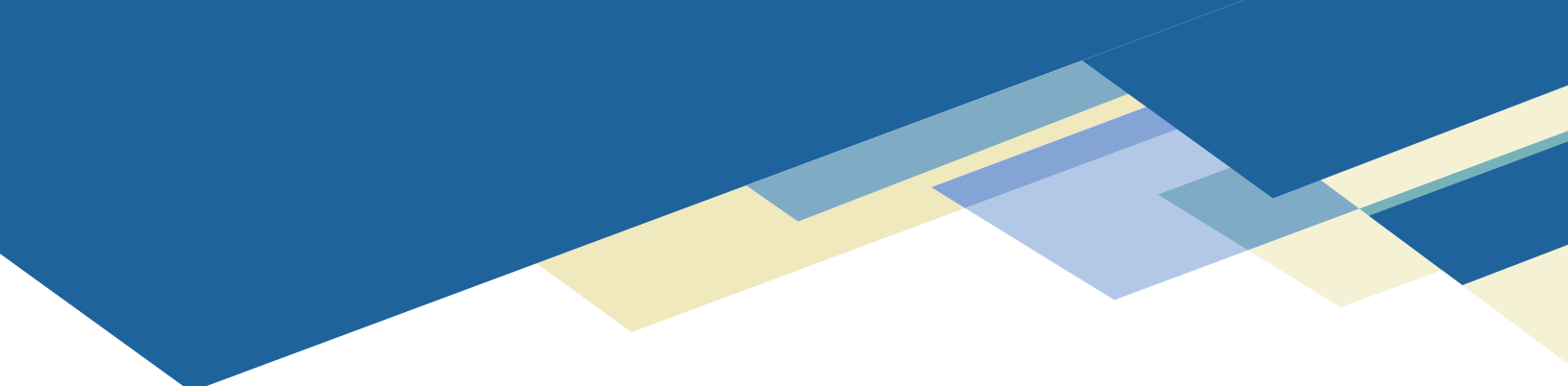
- Transfer data and share
- Cut over to a new server by using Storage Migration Service
- Use Storage Migration Service to migrate to Azure Virtual Machines
- Migrate to Azure file shares

Migrate on-premises servers to Azure

- Deploy and configure Azure Migrate appliance
- Migrate VM workloads to Azure IaaS
- Migrate physical workloads to Azure IaaS
- Migrate by using Azure Migrate

Migrate workloads from previous versions to Windows Server 2022

- Migrate Internet Information Services (IIS)
 - Migrate Hyper-V hosts
- 

- 
- Migrate Remote Desktop Services (RDS) host servers
 - Migrate Dynamic Host Configuration Protocol (DHCP)
 - Migrate print servers

Migrate IIS workloads to Azure


- Migrate IIS workloads to Azure Web Apps
- Migrate IIS workloads to containers

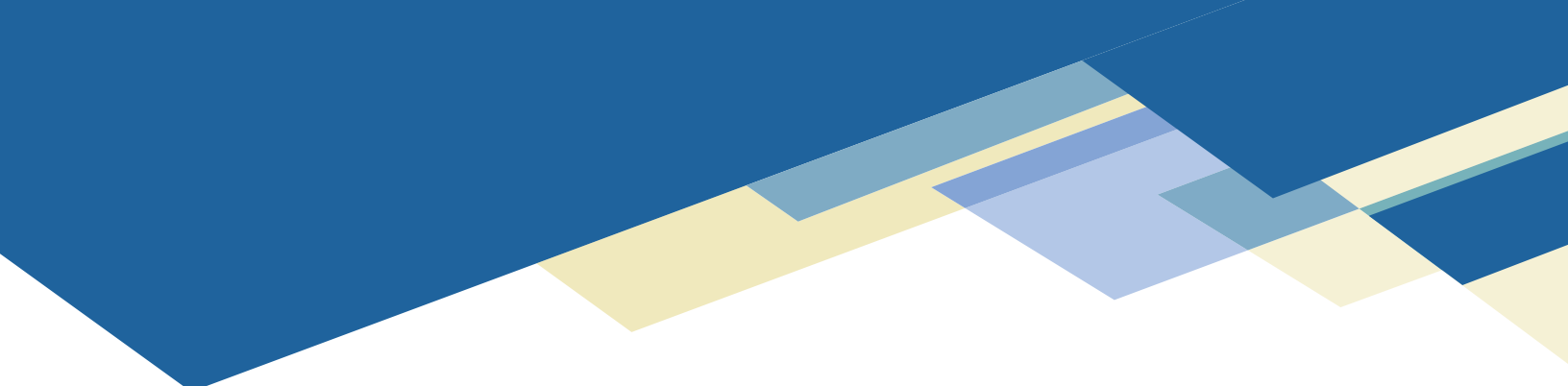
Migrate an AD DS infrastructure to Windows Server 2022 AD DS

- Migrate AD DS objects, including users, groups and Group Policies, using Active Directory Migration Tool
- Migrate to a new Active Directory Forest
- Upgrade an existing forest

Module 5: Monitor and Troubleshoot Windows Server Environments

Monitor Windows Server by using Windows Server tools and Azure services


- Monitor Windows Server by using Performance Monitor
 - Create and configure Data Collector Sets
 - Monitor servers and configure alerts by using Windows Admin Center
 - Monitor by using System Insights
- 

- 
- Manage event logs
 - Deploy Log Analytics agents
 - Collect performance counters to Azure
 - Create alerts
 - Monitor Azure Virtual Machines by using Azure diagnostics extension
 - Monitor Azure Virtual Machines performance by using VM insights

Troubleshoot Windows Server on-premises and hybrid networking

- Troubleshoot hybrid network connectivity
- Troubleshoot on-premises connectivity

Troubleshoot Windows Server virtual machines in Azure

- Troubleshoot deployment failures
 - Troubleshoot booting failures
 - Troubleshoot VM performance issues
 - Troubleshoot VM extension issues
 - Troubleshoot disk encryption issues
 - Troubleshoot storage
 - Troubleshoot VM connection issues
- 




Troubleshoot Active Directory

- Restore objects from AD recycle bin
- Recover Active Directory database using Directory Services Restore Mode
- Recover SYSVOL
- Troubleshoot Active Directory replication
- Troubleshoot hybrid authentication issues
- Troubleshoot on-premises Active Directory

Who Should Attend

Candidates for the AZ-801 Microsoft certification should have subject matter expertise in configuring and managing Windows Server on-premises, hybrid, and infrastructure as a service (IaaS) platform workload. Responsibilities for this role include integrating Windows Server environments with Azure services and managing Windows Server in on-premises networks. This role manages and maintains Windows Server IaaS workloads in Azure, in addition to migrating and deploying workloads to Azure.



About CloudThat

CloudThat is the first company in India to offer Cloud Training & Consulting services for mid-market & enterprise clients from across the globe. Since our inception in 2012, we have trained over 500K IT professionals from fortune 500 companies on technologies such as Microsoft Azure, Amazon Web Services, VMware, Artificial Intelligence, Machine Learning, Google Cloud, IoT, Dynamics 365, Power Platform, Power BI, HPE AI, DevOps, Big Data, Kubernetes, Terraform and more.

With expertise in all the major Cloud platforms, CloudThat is a proud Microsoft Gold Partner, AWS Authorized Training Partner, VMware Authorized Training Reseller, Google Cloud Platform Partner and HPE Learning Partner. Through sheer dedication and commitment towards customer excellence, we have been the winner of the Microsoft Asia Superstar Campaign for India – 2021 as well as recognized as the winner of Microsoft Learning Partner of the Year 2021 Finalist award. Recently, we have been recognized as the Microsoft 2022 Partner of the Year Finalist - Learning Award.

Our Success Track

11+ Years
of Experience

100+
Corporates served

28+
countries catered

650K+
Professionals trained

300+
Projects delivered

500+
Cloud certifications

To know more about our VMware certification training, email at sales@cloudthat.com or call us at **+918880002200**.