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Microsoft

EXAM AZ-800: ADMINISTERING WINDOWS SERVER HYBRID CORE INFRASTRUCTURE

Course Level:

Intermediate

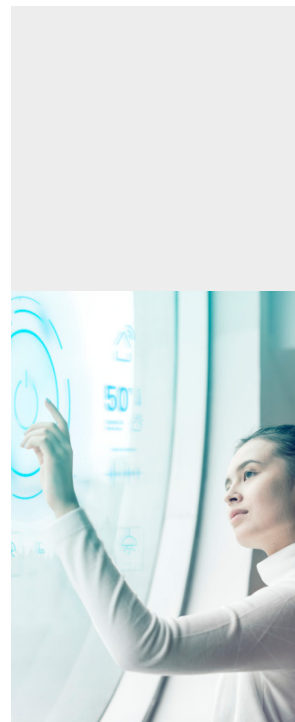
Course Duration:

4 Days

Course Overview:

This Microsoft AZ-800 certification training course from CloudThat teaches candidates how to manage Windows Servers and workloads in a hybrid environment, deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments, and manage virtual machines and containers. In addition, candidates also learn how to manage storage and file services and implement and manage an on-premises and hybrid networking infrastructure.

Taking up this AZ-800 course provides candidates with the skills and knowledge to use administrative tools and technologies, such as PowerShell, Windows Admin Center, IaaS virtual machine administration, and Azure Arc. Candidate for this exam AZ-800 should have extensive experience working with Windows Server operating systems.



Prerequisites

- Extensive experience in working with Windows Server Operating Systems

Objectives



Deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments



Manage Windows Servers and workloads in a hybrid environment



Manage virtual machines and containers



Implement and manage an on-premises and hybrid networking infrastructure



Manage storage and file services

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.

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Course Outline

Module 1: Deploy and Manage Active Directory Domain Services (AD DS) in On-premises and Cloud Environments

Deploy and manage AD DS domain controllers

- Deploy and manage domain controllers on-premises
- Deploy and manage domain controllers in Azure
- Deploy Read-Only Domain Controllers (RODCs)
- Troubleshoot flexible single master operations (FSMO) roles

Configure and manage multi-site, multi-domain, and multi-forest environments

- Configure and manage forest and domain trusts
- Configure and manage AD DS sites
- Configure and manage AD DS replication

Create and manage AD DS security principals


- Create and manage AD DS users and groups
- Manage users and groups in multi-domain and multi-forest scenarios
- Implement group managed service accounts (gMSAs)
- Join Windows Servers to AD DS, Azure AD DS, and Azure AD



Implement and manage hybrid identities

- Implement Azure AD Connect
- Manage Azure AD Connect Synchronization
- Implement Azure AD Connect cloud sync
- Integrate Azure AD, AD DS, and Azure AD DS
- Manage Azure AD DS
- Manage Azure AD Connect Health
- Manage authentication in on-premises and hybrid environments
- Configure and manage AD DS passwords

Manage Windows Server by using domain-based Group Policies

- Implement Group Policy in AD DS
 - Implement Group Policy Preferences in AD DS
 - Implement Group Policy in Azure AD DS
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Module 2: Manage Windows Servers and Workloads in a Hybrid Environment

Manage Windows Servers in a hybrid environment

- Deploy a Windows Admin Center gateway server
- Configure a target machine for Windows Admin Center
- Configure PowerShell Remoting
- Configure CredSSP or Kerberos delegation for second hop remoting
- Configure JEA for PowerShell Remoting

Manage Windows Servers and workloads by using Azure services

- Manage Windows Servers by using Azure Arc
- Assign Azure Policy Guest Configuration
- Deploy Azure services using Azure Virtual Machine extensions on non-Azure machines
- Manage updates for Windows machines
- Integrate Windows Servers with Log Analytics
- Integrate Windows Servers with Azure Security Center
- Manage IaaS virtual machines (VMs) in Azure that run Windows Server
- Implement Azure Automation for hybrid workloads

- Create runbooks to automate tasks on target VMs
- Implement DSC to prevent configuration drift in IaaS machines

Module 3: Manage Virtual Machines and Containers

Manage Hyper-V and guest virtual machines

- Enable VM enhanced session mode
- Manage VM using PowerShell Remoting, PowerShell Direct, and HVC.exe
- Configure nested virtualization
- Configure VM memory
- Configure Integration Services
- Configure Discrete Device Assignment
- Configure VM Resource Groups
- Configure VM CPU Groups
- Configure hypervisor scheduling types
- Manage VM Checkpoints
- Implement high availability for virtual machines
- Manage VHD and VHDX files

- Configure Hyper-V network adapter
- Configure NIC teaming
- Configure Hyper-V switch

Create and manage containers

- Create Windows Server container images
- Manage Windows Server container images
- Configure Container networking
- Manage container instances

Manage Azure Virtual Machines that run Windows Server

- Manage data disks
- Resize Azure Virtual Machines
- Configure continuous delivery for Azure Virtual Machines
- Configure connections to VMs
- Manage Azure Virtual Machines network configuration

Module 4: Implement and Manage an On-premises and Hybrid Networking Infrastructure

Implement on-premises and hybrid name resolution

- Integrate DNS with AD DS
- Create and manage zones and records
- Configure DNS forwarding/conditional forwarding
- Integrate Windows Server DNS with Azure DNS private zones
- Implement DNSSEC

Manage IP addressing in on-premises and hybrid scenarios

- Implement and manage IPAM
- Implement and configure the DHCP server role (on-premises only)
- Resolve IP address issues in hybrid environments
- Create and manage scopes
- Create and manage IP reservations
- Implement DHCP high availability

Implement on-premises and hybrid network connectivity

- Implement and manage the Remote Access role

- Implement and manage Azure Network Adapter
- Implement and manage Azure Extended Network
- Implement and manage Network Policy Server role
- Implement Web Application Proxy
- Implement Azure Relay
- Implement site-to-site virtual private network (VPN)
- Implement Azure Virtual WAN
- Implement Azure AD Application Proxy

Module 5: Manage Storage and File Services

Configure and manage Azure File Sync

- Create Azure File Sync service
- Create sync groups
- Create cloud endpoints
- Register servers
- Create server endpoints
- Configure cloud tiering
- Monitor File Sync

- Migrate DFS to Azure File Sync

Configure and manage Windows Server file shares

- Configure Windows Server file share access
- Configure file screens
- Configure File Server Resource Manager (FSRM) quotas
- Configure BranchCache
- Implement and configure Distributed File System (DFS)

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

Module 6: Configure Windows Server Storage

Troubleshoot Windows Server virtual machines in Azure

- Configure disks and volumes
- Configure and manage Storage Spaces
- Configure and manage Storage Replica
- Configure Data Deduplication
- Configure SMB direct
- Configure Storage Quality of Service (QoS)
- Configure file systems

Course Outline

Who Should Attend

Candidates for this exam administer core Windows Server workloads using on-premises, hybrid, and cloud technologies. These professionals should have expertise in implementing and managing on-premises and hybrid solutions, such as identity, management, compute, networking, and storage. They use administrative tools and technologies, such as Windows Admin Center, PowerShell, Azure Arc, and IaaS virtual machine administration.

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

10+ Years
of Experience

100+
Corporates served

28+
countries catered

500K+
Professionals trained

200+
Projects delivered

350+
Cloud certifications

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