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Microsoft

EXAM AZ-140: CONFIGURING AND OPERATING WINDOWS VIRTUAL DESKTOP ON MICROSOFT AZURE

Course Level:

Beginner

Course Duration:

4 Days

Course Overview:

This Microsoft AZ-140 Certification course from CloudThat teaches Azure administrators how to plan, deliver, and manage virtual desktop experiences and remote apps for any device on Azure. Students will learn through demonstrations and hands-on lab experiences, deploying virtual desktop experiences and apps on Windows Virtual Desktop and optimizing them to run in multi-session virtual environments.

Candidates for this AZ-140 exam are administrators having subject matter expertise on how to plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure.



Prerequisites

- Candidates for this AZ-140 exam should have experience in Azure technologies, including virtualization, networking, identity, storage, backups, resilience, and disaster recovery.
- Candidates should understand on-premises virtual desktop infrastructure technologies as they relate to migrating to Windows Virtual Desktop.

Objectives

-  Select an appropriate licensing model for Windows Virtual Desktop
-  Implement networking for Windows Virtual Desktop
-  Manage Windows Virtual Desktop session hosts by using Azure Bastion
-  Configure storage for FSLogix components
-  Create and manage session host images
-  Implement Azure roles and role-based access control (RBAC) for Windows Virtual Desktop
-  Configure user Windows Virtual Desktop experience settings
-  Install and configure apps on a session host
-  Implement business continuity and disaster recovery
-  Monitor and manage Windows Virtual Desktop performance

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Course Outline

Module 1: Plan a Windows Virtual Desktop Architecture

Lessons

- Azure Virtual Desktop for the enterprise
- Azure Virtual Desktop components
- Personal and pooled desktops
- Service updates for Azure Virtual Desktop
- Azure limitations for Azure Virtual Desktop
- VM sizing
- Azure Virtual Desktop pricing

Module 2: Design the Azure Virtual Desktop architecture

Lessons

- Assess network capacity and speed requirements for Azure Virtual Desktop.
- Determine the connection round-trip time (RTT) from a location through the Azure Virtual Desktop service.
- Recommend an operating system for a Azure Virtual Desktop implementation.
- Describe the two load-balancing methods for Azure Virtual Desktop.
- Recommendation subscriptions and management groups for Azure Virtual Desktop.
- Recommend a configuration for performance requirements.

Module 3: Design for user identities and profiles

Lessons

- Select an appropriate licensing model for Azure Virtual Desktop based on requirements
- Personal and multi-session desktop scenarios
- Recommend an appropriate storage solution

- Plan for Azure Virtual Desktop client deployment - Remote Desktop Protocol (RDP)
- Windows Desktop client to multiple devices
- Hybrid Identity with Entra ID

Module 4: Implement and manage networking for Azure Virtual Desktop

Lessons

- Describe Azure Virtual Desktop network connectivity
- Analyze connection quality in Azure Virtual Desktop
- Describe Remote Desktop Protocol (RDP) bandwidth requirements
- Configure RDP Shortpath for Azure Virtual Desktop sample scenarios
- Plan and implement Quality of Service for Azure Virtual Desktop
- Plan an Azure Private Link solution for Azure Virtual Desktop
- Create an RDP connection to a Windows VM using Azure Bastion

Module 5: Implement and manage Storage for AVD

Lessons

- Plan storage for Azure Virtual Desktop user data
- Understand Azure storage management
- Configure Azure Files tiers
- Configure Azure NetApp Files tiers
- Implement storage accounts for Azure Virtual Desktop

Module 6: Create and configure host pools and session hosts for Azure Virtual Desktop

Lessons

- Configure host pool assignment type.
- Automate creation of an Azure Virtual Desktop host pool using PowerShell.
- Customize Remote Desktop Protocol (RDP) properties for a host pool.
- Manage licensing for session hosts that run Windows client.

Module 7: Create and manage session host image for Azure Virtual Desktop

Lessons

- Create a managed VM image for an Azure Virtual Desktop-specific configuration.
- Modify a session host image.
- Plan for image update and management.
- Create and use an Azure Compute Gallery for Azure Virtual Desktop.
- Install language packs in Azure Virtual Desktop.

Module 8: Manage access for Azure Virtual Desktop

Lessons

- Select an identity strategy for Azure Virtual Desktop
- Select an authentication strategy for Azure Virtual Desktop
- Describe Role-based access control (RBAC) for Azure Virtual Desktop
- Plan and implement Azure roles and role-based access control (RBAC) for Azure Virtual Desktop
- Assign RBAC roles to the Azure Virtual Desktop service principals
- Enforce Microsoft Entra MFA for Azure Virtual Desktop using Conditional Access

Module 9: Manage security for Azure Virtual Desktop

Lessons

- Security recommendations for Azure Virtual Desktop.
- Connecting your Azure subscriptions to Microsoft Defender for Cloud.
- Planning Microsoft Defender for Endpoint for Azure Virtual Desktop sessions.
- Applying Zero Trust principles to an Azure Virtual Desktop deployment.
- Understanding security posture management and threat protection.

Module 10: Implement and manage FSLogix

Lessons

- Understanding FSLogix
- Understanding FSLogix containers
- Configuring FSLogix Profile Containers
- Configuring FSLogix Office Containers
- Configuring profile containers with Cloud Cache
- Using FSLogix Apps RuleEditor and Rule Sets
- Creating and implementing Rule Sets for application masking

Module 11: Configure user experience settings

Lessons

- Connect to Azure Virtual Desktop with the Remote Desktop client for Windows
- Configure session timeout properties
- Configure user settings through group policies
- Implement the Start Virtual Machine on Connect feature
- Configure Universal Print
- Configure device redirections
- Troubleshoot Azure Virtual Desktop clients

Module 12: Plan and implement MSIX APP attach

Lessons

- Describe MSIX app attach for Azure Virtual Desktop.
- Explain how MSIX app attach works.
- Set up a file share for MSIX app attach.
- Use the OneDrive sync app on Azure Virtual Desktops.
- Use Microsoft Teams on Azure Virtual Desktop.
- Publish built-in apps in Azure Virtual Desktop.

Module 13: Monitor and manage Azure Virtual Desktop services

Lessons

- Configure log collection and analysis for Azure Virtual Desktop session hosts
- Monitor Azure Virtual Desktop by using Azure Monitor
- Customize Azure Monitor workbooks for Azure Virtual Desktop Insights
- Optimize for capacity and performance
- Monitor Azure Virtual Desktop by using Azure Advisor
- Implement scaling plans in host pools

Module 14: Plan and implement updates, backups, and disaster recovery

Lessons

- Plan for disaster recovery for Azure Virtual Desktop
- Design and implement a backup strategy for Azure Virtual Desktop
- Monitor costs by using Azure Cost Management

Hands on :

1. Deploy host pools and session hosts by using the Azure portal (Entra ID)
 2. Manage host pools and session hosts by using the Azure portal
 3. Implement monitoring by using Azure Virtual Desktop Insights
 4. Connect to session hosts
 5. Implement and monitor autoscaling of session hosts
 6. Implement Azure Private Link for Azure Virtual Desktop
 7. Create custom session host images by using image templates
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Who Should Attend

Students for AZ-140: Configuring and Operating Windows Virtual Desktop on Microsoft Azure are interested in delivering applications on Windows Virtual Desktop and optimizing them to run in multi-session virtual environments. As a Windows Virtual Desktop administrator, you will closely work with the Azure Administrators and Architects, along with Microsoft 365 Administrators.

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.

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