

Microsoft Certified: Configuring and Operating Microsoft Azure Virtual Desktop (AZ-140)

This Microsoft Certified: Azure Virtual Desktop Specialty (AZ-140) training covers how to design, implement, manage, and maintain Microsoft Azure virtual desktop experiences and remote apps for any devices. If your job is to set up or manage virtual desktop environments, the Azure Virtual desktop Specialty is a tool for you to prove your familiarity with Microsoft tools and your readiness for associate-level work.

[CBT Nuggets course material](#) →

WEEK 1

Getting Primed on Powershell

156 min.

Install Powershell and Prep VS Code	15
Understand Cmdlets	6
Use Parameters with Cmdlets	10
Store Data and Objects with Variables	5
Evaluate Objects and the Pipeline	11
Login to Azure and Set a Subscription	6
CHALLENGE	1

Deploy Infrastructure from ARM Templates

Introducing ARM Templates	2
The Point of ARM Templates	14
JSON ARM Templates - Resources	17
JSON ARM Templates - Parameters	8
JSON ARM Templates - Variables	6
Now Do it with Bicep	9
CHALLENGE	1

Plan for Azure VDI

Planning for VDI in Azure	1
Subscriptions and Resource Groups	12
The Host Pool Architecture	12
User Access Modes and Licensing	11
Capacity Planning and Sizing	9

WEEK 2

152 min.

CHALLENGE	3
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Deploy a Basic Virtual Desktop

Introducing VDI Basics	2
Azure VDI Key Terms and Nuances	17
Create a Virtual Network	3
Deploy a Host Pool	11
Configure RDP Properties	3
Configure User Access Roles and Assignments	6
Connect to the Virtual Desktop	4
CHALLENGE	4

Build IPsec Tunnels to Azure

Introducing VPN Tunnels in Azure	1
Understand the Components of Azure VPNs	13
Deploy the Resources in Azure	11
Plan for Connection Configurations	7
Build the Connection in Azure	6
Complete the Connection On-Premises	5
CHALLENGE	3

Plan for VDI Networking

Introducing Networking for Azure VDI	2
Plan for Bandwidth Utilization	11
Plan for Connectivity in Azure	11
Implement a NAT Gateway	6
Deploy an Azure Firewall	14
Add Service Endpoints to a Subnet	3
Add Private Endpoints to a Subnet	6

CHALLENGE	1
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Plan and Implement RDP Shortpath

Introducing RDP Shortpath	1
Understand RDP Shortpath	9
Implement a Site-to-Site VPN	6
Install the Client RDP Software	3
Configure the Session Host to Support RDP Shortpath	9
Force the Client Machines to Use RDP Shortpath	2
Create and Test the Client Connection	5
Now add QoS Policies to the Session Host	1
CHALLENGE	3

Implement a Domain-Based Host Pool

Introducing Domain-Based VDI	1
Understand the Components	7
Create and Peer the VNets	9
Deploy a VM for the Domain Controller	5
Promote to Domain Controller	7
Implement Entra Connect	5
Deploy a Domain-Joined Host Pool	11
CHALLENGE	4

Deploy Azure VDI with Powershell

Introducing VDI Automation	1
A Quick Overview of the Topology	7
Create the Virtual Network	11
Create the Peering and DNS Updates	7
Create an Empty Host Pool	3

Create a Security Group	4
Assign the Role to the Group	10
Create the Virtual Desktop	16
Add the Virtual Desktop to the Host Pool	10

WEEK 4

152 min.

CHALLENGE	3
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Implement Storage Resources for VDI

Introducing Azure Storage Resources	1
Understanding Storage Account Basics	13
Uncovering VDI Storage Nuances	6
Deploy a Storage Account	10
Deploy a File Share	3
Mount the File Share as a Mapped Drive	3
Deploy an Azure Netapp File Share	10
CHALLENGE	2

Implement FSLogix Profile Containers

Introducing FSLogix Profile Containers	1
Understand the Challenge Ahead	8
Create a Storage Account and File Share	3
Join the File Share to the Domain	10
Create the IAM Role Assignments	2
Create the NTFS Permissions	8
Install and Configure FSLogix	6
CHALLENGE	3

Create Golden Images in Azure

Introducing Imaging in Azure	2
Understanding Imaging	15
Create and Configure a VM	7
Take a Snapshot and Generalize the VM	5
Capture and Ship the Image	9
Prep a Managed Identity for Image Builder	5
Create an Image with Image Builder	8
CHALLENGE	3

Install Apps in Images Using Image Builder

Introducing Streamlined Image Prepping	1
Understand the Process	5

WEEK 5

153 min.

Prep a VM and Test the Script	7
Create a Managed Identity with a Custom Role	5
Create and Prep a Storage Account	5
Create an Image Template with Customizers	7
Build and Deploy a VM	4
CHALLENGE	5

Implement Advanced FSLogix Configurations

Introducing FSLogix Configurations	1
Understand the Tasks at Hand	9
Scaffold an FSLogix Lab	13
Implement ODFC Containers	11
Implement Cloud Cache	11
Implement Application Masking	3

Implement the redirections.xml File	6
CHALLENGE	3
Customize the User Experience	
Introducing UX Customizations in Azure VDI	1
Persistent vs Non-Persistent Data	6
Network GPOs to Implement	9
Endpoint Manager Concepts	5
Session Timeout Configurations	5
Device Redirections	7
Universal Printing Concepts	4
Start VM on Connect Configuration	7
CHALLENGE	2

Publish Apps to End Users

Introducing App Delivery in Azure VDI	1
Understand MSIX App Attach	7
Prep for MSIX App Attach	9

WEEK 6

127 min.

Create an MSIX Image	8
Add the MSIX Package to Your Host Pool	3
Publish the MSIX App	5
Deliver a Streaming App Through RemoteApp	9
CHALLENGE	2

Implement a Disaster Recovery Strategy

Introducing Business Continuity and Disaster Recovery	1
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Understand BCDR for Azure VDI	10
Image Gallery Replication	3
Compute Replication	9
VM Disk Backups	6
Storage Account Recovery Options	7
Azure Netapp Files Cross-Region Replication	8
CHALLENGE	1

Monitor and Secure Azure VDI

Introducing Monitoring and Securing VDI	2
Monitor Azure VDI	14
Understand Conditional Access	11
Create an MFA Conditional Access Policy	9
Understand Microsoft Defender for Cloud	15
CHALLENGE	4