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COURSE OUTLINE

Microsoft Solutions Partner
Microsoft Cloud
Training Services

Course Name: Configuring Azure Virtual Desktop For The Enterprise

Course Code: MS-AZ1005

DELIVERY	SKILL LEVEL	DELIVERY METHOD	TRAINING CREDITS	TECHNOLOGY
1 Day	Intermediate	In Class/VILT	N/A	Microsoft

Course Overview

This abbreviated one-day course teaches Azure administrators how to plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure. Summarized lessons include implementing and managing networking for Azure Virtual Desktop, configuring host pools and session hosts, creating session host images, implementing, and managing FSLogix, monitoring Azure Virtual Desktop performance and health, and automating Azure Virtual Desktop management tasks. Students will learn through a mix of condensed demonstrations deploying virtual desktop experiences on Azure Virtual Desktop and running in multi-session virtual environments. This course assumes familiarity with Azure Virtual Desktop, including virtualization, networking, identity, storage, backup and restore, and disaster recovery. Students should have knowledge of on-premises virtual desktop infrastructure technologies as they relate to migrating to Azure Virtual Desktop. Students are expected to have used tools common to the Azure environment, such as the Azure PowerShell and Cloud Shell.

Course content

Module 1: Azure Virtual Desktop Architecture

Azure Virtual Desktop manages the infrastructure and brokering components, while customers manage their own desktop host virtual machines (VMs) and clients. Microsoft manages the Remote Connection Gateway, and Connection Broker services as part of Azure.

Lesson 1: Introduction

Lesson 2: Azure Virtual Desktop for the enterprise

Lesson 3: Azure Virtual Desktop components

Lesson 4: Personal and pooled desktops

Lesson 5: Service updates for Azure Virtual Desktop desktops

Lesson 6: Azure limitations for Azure Virtual Desktop

Lesson 7: Virtual machine sizing for Azure Virtual Desktop

Lesson 8: Azure Virtual Desktop pricing

Lesson 9: Knowledge check

Lesson 10: summary

Module 2: Design the Azure Virtual Desktop architecture

Azure Virtual Desktop design requires that you access network capacity and speed requirements, select a load balancing method for your Azure Virtual Desktop deployment and choose the right Windows Desktop client.

Lesson 1: Introduction

Lesson 2: Assess network capacity and speed requirements for Azure Virtual Desktop

Lesson 3: Azure Virtual Desktop Experience Estimator

Lesson 4: Recommend an operating system for an Azure Virtual Desktop implementation

Lesson 5: Balancing host pools

Lesson 6: Recommendations for using subscriptions and management groups

Lesson 7: Configure a location for the Azure Virtual Desktop metadata

Lesson 8: Recommend a configuration for performance requirements

Lesson 9: Knowledge check

Lesson 10: Summary

Module 3: Design for user identities and profiles

Your user requires you to access those applications both on-premises and in the cloud. You use the Remote Desktop client for Windows Desktop to access Windows apps and desktops remotely from a different Windows device.

Lesson 1: Introduction

Lesson 2: Select an appropriate licensing model for Azure Desktop based on requirements

Lesson 3: Personal and multi-session desktop scenarios

Lesson 4: Recommend an appropriate storage solution

Lesson 5: Plan for a desktop client deployment

Lesson 6: Plan for Azure Virtual Desktop client deployment-Remote Desktop Protocol (RDP)

Lesson 7: Windows Desktop client to multiple devices

Lesson 8: Hybrid Identity with Microsoft Entra ID

Lesson 9: Plan for Microsoft Entra Connect for user identities

Lesson 10: Knowledge check

Lesson 11: Summary

Module 4: Implement and manage networking for Azure Desktop

See how to monitor and repair health of their Azure Virtual Desktop including virtual machines, virtual networks, application gateways and load balancers.

Lesson 1: Introduction

Lesson 2: Implement Azure virtual network connectivity

Lesson 3: Manage connectivity to the internet and on-premises networks

Lesson 4: Understanding Azure Virtual Desktop network connectivity

Lesson 5: Implement and manage network security for Azure Virtual Desktop

Lesson 6: Configure Azure Virtual Desktop session hosts using Azure Bastion

Lesson 7: Monitor and troubleshoot network connectivity for Azure Virtual Desktop

Lesson 8: Plan and implement Remote Desktop Protocol Shortpath

Lesson 9: Configure Remote Desktop Protocol Shortpath for managed networks

Lesson 10: Configure Windows Defender Firewall with Advanced Security for RDP Shortpath

Lesson 11: Plan and implement Quality of Service for Azure Virtual Desktop

Lesson 12: Knowledge check

Model 5: Implement and manage storage for azure Virtual desktop

FSLogix roams profiles on remote computing environments, such as Azure Virtual Desktop. You set up a FSLogix profile container share for a host pool using a virtual machine-based file share

Lesson 1: Storage for FSLogix components

Lesson 2: Configure storage accounts

Lesson 3: Create file shares

Lesson 4: Configure disks

Lesson 5: Knowledge check

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

See how to configure the assignment type of a personal desktop host pool to adjust your Azure Virtual Desktop environment to better suit your needs.

Lesson 1: Introduction

Lesson 2: Automate creation of an Azure Virtual Desktop host pool using PowerShell

Lesson3: Configure host pool assignment type

Lesson 4: Customize Remote Desktop Protocol (RDP) properties for a host pool

Lesson 5: Manage licensing for session hosts that run Windows client

Lesson 6: Deploying Microsoft Entra joined virtual machines in Azure Virtual Desktop

Lesson 7: Knowledge check

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

Shared Image Gallery simplifies custom image across your organization. Custom images can be used to bootstrap deployment tasks like preloading applications, application configurations and other OS configurations.

Lesson 1: Introduction

Lesson 2: Create a managed virtual machine (VM) image

Lesson 3: Plan for image update and management

Lesson 4: Create and use an Azure Compute Gallery using the portal

Lesson 5: Create an Azure Virtual Desktop image by using VM Image Builder

Lesson 6: Install Microsoft 365 Apps on a master Virtual Hard Disk Image

Lesson 7: Install language packs in Azure Virtual Desktop

Lesson 8: Knowledge check

Module 8: Manage access for Azure Virtual Desktop

Azure Virtual Desktop uses Azure role-based access control (RBAC) to assign roles to users and admins. Azure Virtual Desktop has additional roles that let you separate management roles for host pools, app groups and workspaces.

Lesson 1: Introduction

Lesson 2: Role-based access control (RBAC) FOR Azure access Virtual Desktop

Lesson 3: Plan and implement Azure roles and role-based access control (RBAC) for Azure Virtual Desktop

Lesson 4: Using Azure Virtual Desktop with Microsoft Intune

Lesson 5: Configuring screen capture protection for Azure Virtual Desktop

Lesson 6: Knowledge check

Module 9: Manage access for Azure Virtual Desktop

The Windows client for Azure Virtual Desktop integrates Azure Virtual Desktop on local machines. You'll learn the critical actions for keeping your users safe.

Lesson 1: Introduction

Lesson 2: Plan and implement Conditional Access policies for connection to Azure Virtual Desktop

Lesson 3: Plan and implement multifactor authentication (MFA) in Azure Virtual Desktop

Lesson 4: Understand Conditional Access policy components

Lesson 5: Manage security by using Azure Security Center

Lesson 6: Security posture management and threat protection9

Lesson 7: Knowledge check

Module 10: Implement and manage FSLogix

A use profile contains data elements about a user information like desktop settings, persistent network connections and applications settings.

Lesson 1: Introduction

Lesson 2: Plan for FSLogix

Lesson 3: FSLogix profile containers and Azure files

Lesson 4: Install FSLogix

Lesson 5: Storage options for FSLogix profile containers

Lesson 6: Profile Container vs Container

Lesson 7: Configure office Containers

Lesson 8: Installing Microsoft Office using FSLogix application containers

Lesson 9: Configure Cloud Cache

Lesson 10: Configure Profile Containers

Lesson 11: Create a profile container with Azure NetApp Files and capacity pool

Lesson 12: Manage Rule Sets and application masking

Module 11: Configure user experience settings

Persistent virtual desktops save the operating system state in between reboots. Virtual desktop provides users easy and seamless access to their assigned VMs, often with a single sign-on solution.

Lesson 1: Introduction

Lesson 2: Virtual desktop optimization principles

Lesson 3: Persistent virtual desktop environments

Lesson 4: Configure user settings through group policies

Lesson 5: Configure user settings through Endpoint Manager policies

Lesson 6: Configure session timeout properties

Lesson 7: Configure Universal Print

Lesson 8: Implement the Start Virtual Machine on Connect feature

Lesson 9: Troubleshoot user profile issues

Lesson 10: Troubleshoot Azure Virtual Desktop clients

Lesson 11: Knowledge check

Module 12: Install and configure apps on a session host

MSIX app attach is a way to deliver MSIX applications to both physical and virtual machines. MSIX app attach is different from regular MSIX because its specifically for Azure Virtual Desktop

Lesson 1: Introduction

Lesson 2: MSIX app attach

Lesson 3: How MSIX app attach works

Lesson 4: Set up a file share for MSIX app attach

Lesson 5: Upload MSIX images to Azure NetApp Files in Azure Virtual Desktop

Lesson 6: How to configure apps for users

Lesson 7: Using the OneDrive sync app on Virtual desktop

Lesson 8: Using Microsoft Teams on Azure Virtual Desktop

Lesson 9: Publish built-in apps in Azure Virtual Desktop

Lesson 10: Troubleshoot application issues for Azure Virtual Desktop

Lesson 11: Knowledge check

Module 13: Plan a disaster recovery

You can replicate our virtual machines (VMs) to the secondary location for Azure Virtual Desktop. You use Azure Site Recovery to manage replicating VMs in in other Azure locations

Lesson 1: Introduction

Lesson 2: Disaster recovery for Azure Virtual Desktop

Lesson 3: Virtual machine replication

Lesson 4: FSLogix configuration

Lesson 5: Knowledge check

Module 14: Automate Azure Virtual Desktop management tasks

Reduce Azure Virtual Desktop deployment costs by scaling virtual machines (VMs). This means shutting down and deallocating session host VMs during off-peak usage hours, then turning them back on and reallocating them during peak hours.

Lesson 1: Introduction

Lesson 2: Scale session hosts using Azure Automation

Lesson 3: Create or update an Azure Automation account

Lesson 4: Create an Azure Automation Run As account

Lesson 5: Create an Azure Logic App and execution schedule

Lesson 6: Knowledge check

Module 15: Monitor and manage performance and health

For Azure Desktop issues, check Azure Advisor first. Azure Advisor will give you directions for how to solve the problem or at lest point you towards a resource that can help.

Lesson 1: Introduction

Lesson 2: Monitor Azure Virtual Desktop by using Azure Monitor

Lesson 3: Log Analytics workspace for Azure Monitor

Leson 4: Monitor Azure Virtual Desktop by using Azure Advisor

Lesson 5: How to resolve Azure Advisor recommendations

Lesson 6: Diagnose graphics performance issues

Lesson 7: Knowledge check

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