

Configuring and Operating Microsoft Azure Virtual Desktop (AZ-140T00)

Duration: 4 days

Audience: Professionnel TI

Who is this training for?

Students in the AZ-140 course are interested in delivering applications on the Windows Virtual Desktop and optimizing them to work in multi-session virtual environments. As a Windows Virtual Desktop administrator, you'll work closely with Azure administrators and architects, as well as Microsoft 365 administrators. The responsibilities of the Windows Virtual Desktop administrator include planning, deploying, packaging, updating, and maintaining the Azure Windows Virtual Desktop infrastructure. You also create session host images, implement and manage FSLogix, monitor Windows Virtual Desktop performance, and automate Windows Virtual Desktop management tasks.

Training objectives

- Choose an appropriate licensing model for Windows Virtual Desktop
- Set up networking for Windows Virtual Desktop
- Manage Windows Virtual Desktop session hosts 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 Windows Virtual user experience settings Desktop
- Install and configure applications on a session host
- Implement business continuity and disaster recovery
- Monitor and manage Windows Virtual Desktop performance

Summary

This course teaches how to plan, deliver, and manage virtual desktop experiences and remote applications, for any device, on Azure. You'll learn through a mix of demonstrations and hands-on lab experiments how to deploy virtual desktop experiments and applications on Windows Virtual Desktop and optimize them to work in multi-session virtual environments.

Course outline

Module 1: Planning a Windows Virtual Desktop Architecture

In this module, you will learn how to evaluate existing physical and virtual desktop environments, plan and configure name resolution for Active Directory (AD) and Azure Active Directory Domain Services (Azure AD DS), and plan for the deployment of Windows Virtual Desktop clients.

Courses

- Windows Virtual Desktop Architecture
- Design the WVD Architecture
- Design User Identities and Profiles

Lab: Prepare for Azure Windows Virtual Desktop (Azure AD DS)

Deployment: Prepare for Azure Windows Virtual Desktop (AD DS)

Deployment After completing this module, students will be able to:

- Understand the components of Windows Virtual Desktop
- Understand personal and multi-tenant desktops
- Recommend a system Operating Principles for a WVD Implementation
- Plan a Host Pool Architecture

Module 2: Implementing a WVD Infrastructure

In this module, you will learn how to manage connectivity to the Internet and on-premises networks, how to create a host pool using the Azure portal, how to deploy host pools and hosts using Azure Resource Manager templates, Apply operating system and application updates to a running WVD host and create a master image.

Courses

- Implement and manage networks for WVD
- Implement and manage storage for WVD
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Create and configure host pools and session hosts

- Create and manage the session host image

Lab: Create and configure host pools and session hosts (Azure AD DS)

Lab: Deploy host pools and session hosts using the Azure portal (AD DS)

Lab: Implement and Manage Storage for WVD (Azure AD DS)

Lab: Deploy Host Pools and Hosts Using Azure Resource Manager Templates

Lab: Deploy and Manage Host Pools and Hosts Using the Following PowerShell Tools

After completing this module, students will be able to:

- Implement Azure Virtual Network connectivity
- Manage connectivity to the Internet and on-premises networks
- Understand the Windows Virtual Desktop Network Connectivity
- Configure WVD Session Hosts Using Azure Bastion
- Configure Storage for FSLogix Components
- Configure Disks and File Shares
- Edit a Session Host Image
- Create and Use a Shared Image Gallery (SIG)

Module 3: Manage Access and Security

In this module, You'll learn how to plan and implement Azure and RBAC roles for WVD, implement Conditional Access policies for sign-ins, plan and implement MFA, and manage security using Azure Security Center.

Course

- Manage Access
- Manage Security

Lab: Configure Conditional Access Policies for Connections to WVD (AD DS)

After completing this module, students will be able to:

- Manage local roles, groups, and assignment of rights on WVD session hosts.
- Configure user restrictions using AD group policies and Azure AD policies.
- Understand the components of the Conditional Access policy
- Prepare for Azure Active Directory (Azure AD)-based Conditional Access for Windows Virtual Desktop.
- Implement Azure AD-based Conditional Access for Windows Virtual Desktop

Module 4: Manage user environments and applications

In this module, you will learn how to plan FSLogix, install it, configure Cloud Cache, deploy an application as a RemoteApp, and implement and manage OneDrive for Business for a multi-session environment.

Courses

- Implement and Manage FSLogix
- Configure User Experience Settings
- Install and Configure Applications on a Session Host

Lab: Managing the Windows Virtual Desktop Profile (Azure AD DS)

Lab: Managing the Windows Virtual Desktop (Azure AD DS) Profile

Lab: Packaging the Windows Virtual Desktop (AD DS) Application

After completing this module, Students will be able to:

- Configure profile containers
- Configure Azure Files to store profile containers for WVD in an AAD DS environment
- Implement FSLogix-based profiles for Windows Virtual Desktop in an Azure AD DS environment
- Implement FSLogix-based profiles for Windows Virtual Desktop
- Prepare and create MSIX application packages
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Implement the MSIX application attachment container for Windows Virtual Desktop in an AD DS Environment

Module 5: Monitor and Maintain a WVD Infrastructure

In this module, you will learn how to plan and implement a disaster recovery plan for WVD, configure automation for WVD, implement autoscaling in host pools, and optimize the capacity and performance of session hosts.

Course

- Plan and implement business continuity and disaster recovery
- Automate WVD management tasks
- Monitor and manage performance and health

Lab: Implementing Autoscaling in Host Pools (AD DS)

After completing this module, students will be able to:

- Plan and implement a disaster recovery plan for WVD
- Configure automation for WVD
- Monitor WVD using Azure Monitor
- Customize Azure workbooks for monitoring WVD.
- Configure autoscaling of Windows Virtual Desktop session hosts.
- Check Windows Virtual Desktop Session Host Autoscaling

Approach and methodology

Practical and structured approach combining focused theory and guided workshops. Participants gradually configure and exploit Microsoft Azure Virtual Desktop through concrete exercises inspired by professional scenarios, promoting an immediate application of the learnings. They learn how to deploy, manage, and secure virtual desktop environments while optimizing user experience and performance. Led by a Microsoft certified trainer, the training focuses on interactivity and the

development of directly transferable technical skills to effectively administer virtualized environments in a professional context.

Prerequisites

- Basic knowledge of computer science Understand virtualization concepts Basics in Azure (virtual machines, networking, storage)
- Understanding Windows environments

Recommendations

- Experience with Windows Server administration or client workstations Knowledge of common Azure services (VM, network, storage)
- Notions of identities (Active Directory / Azure AD)
- Be comfortable with cloud and hybrid environments
- Experience in infrastructure management or IT support (asset)