

Configure and Operate Microsoft Azure Virtual Desktop (AZ-140T00)

Duration: 4 days

Audience: Professionnel TI

Who is this training for?

Students for AZ-140: Configure and Operate Microsoft Azure Virtual Desktop are interested in delivering applications on Azure Virtual Desktop and optimizing them to run in multi-session virtual environments. As an Azure Virtual Desktop administrator, you will closely work with the Azure Administrators and Architects, along with Microsoft 365 Administrators. Azure Virtual Desktop administrator responsibilities include planning, deploying, packaging, updating, and maintaining the Azure Virtual Desktop infrastructure. They also create session host images, implement and manage FSLogix, monitor Azure Virtual Desktop performance, and automate Azure Virtual Desktop management tasks.

Training objectives

By the end of this course, students will be able to:

- Assess the technical prerequisites and core components required for an Azure Virtual Desktop solution.
- Design an Azure Virtual Desktop architecture that aligns with organizational and user requirements.
- Deploy and configure the key components of an Azure Virtual Desktop infrastructure.
- Create and manage host pools and session hosts to deliver virtual desktops and applications.
- Configure authentication and authorization mechanisms for Azure Virtual Desktop users.
- Apply security controls and best practices to protect virtual desktop environments.
- Configure and administer user profiles using FSLogix.
- Deploy and manage applications and user environments within Azure Virtual Desktop.
- Use monitoring tools to evaluate the performance and health of an Azure Virtual Desktop environment.
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Perform maintenance and optimization tasks to ensure service availability and performance

Summary

This course teaches Azure administrators how to plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure. 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 demonstrations and hands-on lab experiences deploying virtual desktop experiences and apps on Azure Virtual Desktop and optimizing them to run in multi-session virtual environments. Candidates of this course must have solid Azure administration skills. This course assumes prior experience, 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 the tools common to the Azure environment, such as the Azure PowerShell and Cloud Shell.

Course outline

Learning Path 1 : Plan an Azure Virtual Desktop Implementation

- Module 1 : Azure Virtual Desktop Architecture
- Module 2 : Design the Azure Virtual Desktop Architecture
- Module 3 : Design for User Identities and Profiles

Learning Path 2 : Implement an Azure Virtual Desktop Infrastructure

- Module 1 : Implement and Manage Networking for Azure Virtual Desktop
- Module 2 : Implement and Manage Storage for Azure Virtual Desktop
- Module 3 : Create and Configure Host Pools and Session Hosts for Azure Virtual Desktop

- Module 4 : Create and Manage Session Host Images for Azure Virtual Desktop

Learning Path 3 : Manage Access and Security for Azure Virtual Desktop

- Module 1 : Manage Access for Azure Virtual Desktop
- Module 2 : Manage Security for Azure Virtual Desktop

Learning Path 4 : Manage User Environments and Apps for Azure Virtual Desktop

- Module 1 : Implement and Manage FSLogix
- Module 2 : Configure User Experience Settings
- Module 3 : Install and Configure Apps on a Session Host

Learning Path 5 : Monitor and Maintain an Azure Virtual Desktop Infrastructure

- Module 1 : Monitor and Manage Performance and Health
- Module 2 : Plan and Implement U

Approach and methodology

Practical and structured approach combining focused theory and guided workshops. Participants gradually discover and implement Microsoft Azure Virtual Desktop through concrete exercises inspired by real-world professional scenarios, promoting immediate application of the concepts learned.

They learn how to deploy, configure, secure, and optimize virtual desktop environments while managing user experiences and application delivery in Azure.

Led by a Microsoft Certified Trainer (MCT), the training emphasizes interactivity and the development of practical skills that can be directly applied to effectively administer Azure Virtual Desktop environments in a professional context.

Prerequisites

Students should have the following knowledge and experience before attending this course:

- Strong Azure administration skills.
- Prior experience with:

Virtualization technologies

Networking

Identity management

Storage solutions

Backup and restore

Disaster recovery

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Knowledge of on-premises Virtual Desktop Infrastructure (VDI) technologies and how they relate to migrations to Azure Virtual Desktop.

- Experience using common Azure administration tools, including:

Azure PowerShell

Azure Cloud Shell

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)

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