

# Configuring and Operating Windows Virtual

## Desktop on Microsoft Azure



Duration	Delivery Method	Level
4 days	Online / Instructor Led	Intermediate

### MS-AZ140T00

This course teaches Azure administrators how to plan, deliver, and manage virtual desktop experiences and remote apps, for any device, on Azure. Students will learn through a mix of demonstrations and hands-on lab experiences deploying virtual desktop experiences and apps on Windows Virtual Desktop and optimising them to run in multi-session virtual environments.

### Audience Profile

Students for AZ-140: Configuring and Operating Windows Virtual Desktop on Microsoft Azure are interested in delivering applications on Windows Virtual Desktop and optimising 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. Windows Virtual Desktop administrator responsibilities include planning, deploying, packaging, updating, and maintaining the Azure Windows Virtual Desktop infrastructure. They also create session host images, implement, and manage FSLogix, monitor Windows Virtual Desktop performance, and automate Windows Virtual Desktop management tasks.

### Course Objectives

After completing this course, students will be able to:

- 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

### Course Content

#### Module 1: Module 1: Plan a Windows Virtual Desktop Architecture

In this module, you will learn how to assess 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 Windows Virtual Desktop client deployments.

##### Lessons

- Windows Virtual Desktop Architecture
- Design the WVD architecture.
- Design for user identities and profiles
- Lab: Prepare for deployment of Azure Windows Virtual Desktop (Azure AD DS)
- Lab: Prepare for deployment of Azure Windows Virtual Desktop (AD DS)
- After completing this module, students will be able to:
- Understand Windows Virtual Desktop Components
- Understand personal and pooled desktops.
- Recommend an operating system for a WVD implementation.
- Plan a host pool architecture.

#### Module 2: Implement a WVD Infrastructure

In this module, you will learn how to manage connectivity to the internet and on-premises networks, create a host pool by using the Azure portal, deploy host pools and hosts by using Azure Resource Manager templates, apply OS and application updates to a running WVD host, and create a master

image.

- Implement and manage networking for Windows Virtual Desktop
- Implement and manage storage for Windows Virtual Desktop.
- Create and configure host pools and session hosts.
- Create and manage session host image.
- Implement Azure virtual network connectivity.
- Manage connectivity to the internet and on-premises networks.
- Understanding Windows Virtual Desktop network connectivity
- Configure Windows Virtual Desktop session hosts using Azure Bastion
- Configure storage for FSLogix components.
- Configure disks and file shares.
- Modify a session host image.
- Create and use a Shared Image Gallery (SIG)

### **Module 3: Manage Access and Security**

In this module, you will learn how to plan and implement Azure roles and RBAC for Windows Virtual Desktop, implement Conditional Access policies for connections, plan and implement MFA, and manage security by using Azure Security Centre.

- Manage access.
- Manage security.
- Lab: Configure Conditional Access policies for connections to Windows Virtual Desktop (AD DS)
- Manage local roles, groups and rights assignment on WVD session hosts.
- Configure user restrictions by using AD group policies and Azure AD policies.
- Understand Conditional Access policy components.
- 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 Apps**

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

- Implement and manage FSLogix
- Configure user experience settings.
- Install and configure apps on a session host.
- 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 Azure AD DS environment.
- Implement FSLogix based profiles for Windows Virtual Desktop
- Prepare for and create MSIX app packages.
- Implement MSIX app attach container for Windows Virtual Desktop in AD DS environment.

### **Module 5: Monitor and maintain a Windows Virtual Desktop 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 optimise session host capacity and performance.

- Plan and implement business continuity and disaster recovery.
- Automate WVD management tasks.
- Monitor and manage performance and health.
- Plan and implement a disaster recovery plan for Windows Virtual Desktop
- Configure automation for Windows Virtual Desktop
- Monitor WVD by using Azure Monitor

- Customise Azure Workbooks for Windows Virtual Desktop monitoring
- Configure autoscaling of Windows Virtual Desktop session hosts.
- Verify autoscaling of Windows Virtual Desktop session host.