

## AZ-140: Microsoft Azure Virtual Desktop Specialty Exam Study Guide

May 20, 2022 by [manish](#)

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In the AZ-140 exam, you will be assessed on your ability to perform the following tasks: plan an Azure Virtual Desktop architecture; implement Azure Virtual Desktop infrastructure; manage access and security, and manage user environments and apps.

The topics covered in this blog are:

- [AZ-140 Certification Overview](#)
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## AZ-140 Certification Overview

The Microsoft Azure Virtual Desktop exam is designed for those with large amounts of experience and knowledge of planning, delivering, and managing virtual desktop experiences and remote apps.

In this role, the responsibilities include installing apps and virtual desktop experiences on Azure. An Azure Virtual Desktop application developer delivers applications that run in multi-session environments on Azure Virtual Desktop. The team works closely with Azure administrators and architects, along with Microsoft 365 administrators, to deliver these experiences.



Azure Virtual Desktop  
Specialty

Are you new to Azure Cloud? Do check out our blog post on the [Azure Certification Path 2022](#) and choose the best certification for you.

## Why AZ-140 Certification?

AZ-140 Certification shows that you are an Azure administrator with subject matter expertise in planning, delivering, and managing virtual desktop experiences and remote apps, for any device, on Azure.

After getting AZ-140 Certified, the Candidate gains the skills to carry out the following tasks,

- Architect Azure Virtual Desktops
- Set up a virtual desktop infrastructure based on Azure
- Controlling access to Azure Virtual Desktops through security and access control
- Managing users, environments, and applications on Azure Virtual Desktop
- Ensure the Azure Virtual Desktop infrastructure is being monitored and maintained

## Benefits of AZ-140 certification

The top 4 benefits of AZ-140 Certification are,

- Expand available job opportunities
- Increase salary
- Long-term career growth
- 93% of decision-makers say that Azure Certified Professionals provide added value.

**Check Out:** [What is Azure](#)

## Who is this Certification for?

The AZ-140 is suitable for the candidate those who want to learn,

- Managing Azure identities and governance
- Implementing and managing storage
- Deploying and managing Azure compute resources
- Virtual networking

## AZ-140 Exam Details

<b>Exam Name</b> Configuring and Operating Microsoft Azure Virtual Desktop	<b>Exam Duration</b> 100 Minutes
<b>Exam Fee</b> \$165	<b>Number of Questions</b> 40 - 60
<b>Retirement date</b> None	<b>Exam Languages</b> English, Japanese, Korean, French and Simplified Chinese

## Exam AZ-140 Skills Measured

<b>Plan an Azure Virtual Desktop architecture</b>	<b>10-15%</b>
<b>Implement an Azure Virtual Desktop infrastructure</b>	<b>25-30%</b>
<b>Manage access and security</b>	<b>10-15%</b>
<b>Manage user environments and apps</b>	<b>20-25%</b>
<b>Monitor and maintain an Azure Virtual Desktop infrastructure</b>	<b>20-25%</b>

**Check Out:** [Top 30 Azure Data Factory Interview Questions](#)

## How to Register for AZ-140 Exam

You can register for the Microsoft Azure Virtual Desktop Specialty Exam (AZ-140) by going to the [Official Microsoft Page](#).

### Exam AZ-140: Configuring and Operating Microsoft Azure Virtual Desktop

**Languages:** English, Japanese, Chinese (Simplified), Korean, French, German, Spanish, Portuguese (Brazil), Russian, Arabic (Saudi Arabia), Chinese (Traditional), Italian  
**Retirement date:** none

This exam measures your ability to accomplish the following technical tasks: plan a Azure Virtual Desktop architecture; implement a Azure Virtual Desktop infrastructure; manage access and security; manage user environments and apps; and monitor and maintain a Azure Virtual Desktop infrastructure.

United States 

**\$165 USD\***

Price based on the country or region in which the exam is proctored.

[Schedule exam >](#)

## Pre-requisites for AZ-140 Certification

- The candidate should have virtualization, networking, identity, storage, backups, resilience, and disaster recovery skills.
- Basic knowledge and understanding of on-premises virtual desktop infrastructure technologies.
- Knowledge of using Azure portal and Azure Resource Manager templates.
- The candidate should be familiar with using PowerShell and Azure Command-Line Interface (CLI).
- Expert [Azure administration](#)

## AZ-140 Study guide

### Plan an Azure Virtual Desktop architecture (10-15%)

#### Design the Azure Virtual Desktop architecture

- Assess existing physical and virtual desktop environments
  - [Azure Virtual Desktop assessment](#)
  - [Is Windows Virtual Desktop Right for Your Organization?](#)

- Assess network capacity and speed requirements for Azure Virtual Desktop
  - [Network guidelines](#)
  - [Azure Virtual Desktop Experience Estimator](#)
- Recommend an operating system for an Azure Virtual Desktop implementation
  - [Supported virtual machine OS images](#)
- Plan and configure name resolution for Active Directory (AD) and Azure Active Directory Domain Services (Azure AD DS)
  - [Configure Active Directory](#)
- Plan a host pools architecture
  - [Plan Azure Virtual Desktop Host Pool](#)
- Recommend resource groups, subscriptions, and management groups
  - [Mgmt grp Subs Resource grp](#)
- Configure a location for the Azure Virtual Desktop metadata
  - [Data locations for Azure Virtual Desktop](#)
- Calculate and recommend a configuration for performance requirements
  - [Network guidelines](#)
  - [Azure Virtual Desktop Experience Estimator](#)
- Calculate and recommend a configuration for Azure Virtual Machine capacity requirements
  - [Recommended VM sizes for standard or larger environments](#)

## **Design for user identities and profiles**

- Select an appropriate licensing model for Azure Virtual Desktop based on requirements
  - [Plan AVD Licenses](#)
- Recommend an appropriate storage solution (including Azure NetApp Files versus Azure Files)
  - [Benefits of using Azure NetApp Files with Azure Virtual Desktop](#)
  - [Azure Files integration with Azure Active Directory Domain Service](#)

- [Create a profile container with Azure Files and AD DS](#)
- Plan for Azure Virtual Desktop client deployment
  - [Azure Virtual Desktop deployment overview](#)
- Plan for user profiles
  - [User profiles](#)
- Recommend a solution for network connectivity
  - [Understanding Azure Virtual Desktop network connectivity](#)
- Plan for Azure AD Connect for user identities
  - [Plan AzureAD Identities](#)

## Implement an Azure Virtual Desktop infrastructure (25-30%)

### Implement and manage networking for Azure Virtual Desktop

- Implement Azure virtual network connectivity
  - [WVD Network Security-Windows Virtual Desktop](#)
  - [Azure Networking: how to secure Window Virtual Desktop deployments](#)
- manage connectivity to the internet and on-premises networks
  - [Azure Virtual Desktop for the enterprise](#)
- Implement and manage network security
  - [Security best practices](#)
  - [Azure security baseline for Azure Virtual Desktop](#)
- Secure Azure Virtual Desktop session hosts by using Azure Bastion
  - [how to Manage your Windows Virtual Desktop host pools with Azure Bastion](#)
- Monitor and troubleshoot network connectivity
  - [Troubleshoot the Remote Desktop client](#)
  - [Use Log Analytics for the diagnostics feature](#)

### Implement and manage storage for Azure Virtual Desktop

- Configure storage for FSLogix components

- [Storage options for FSLogix profile containers in Azure Virtual Desktop](#)
- Configure storage accounts
  - [Set up an Azure Storage account](#)
- Configure disks
  - [Prepare and customize a VHD image for Azure Virtual Desktop](#)
- Create file shares
  - [Create a profile container with Azure Files and AD DS](#)

## **Create and configure host pools and session hosts**

- Create a host pool by using the Azure portal
  - [Create a host pool](#)
- Automate creation of Azure Virtual Desktop host and host pools by using PowerShell, Command-Line Interface (CLI), and Azure Resource Manager templates
  - [Create an Azure Virtual Desktop host pool with PowerShell or the Azure CLI](#)
  - [Create a host pool in Azure Virtual Desktop \(classic\) with an Azure Resource Manager template](#)
- Create a host pool based on Windows client or Windows Server session hosts
  - [Expand an existing host pool with new session hosts](#)
- Configure host pool settings
  - [Customize Remote Desktop Protocol \(RDP\) properties for a host pool](#)
- Manage licensing for session hosts that run Windows client or Windows Server
  - [Apply Windows license to session host virtual machines](#)
- Assign users to host pools
  - [Configure the personal desktop host pool assignment type](#)
- Apply OS and application updates to a running Azure Virtual Desktop host



- [WVD Patch Management](#)
- [WVD Update Management- Windows Virtual Desktop](#)
- Apply security and compliance settings to session hosts
  - [AVD Session Host Security -Azure Virtual Desktop](#)

## **Create and manage session host images**

- Create a gold image
  - [Everything You Need to Know about Golden Images](#)
  - [Prepare and customize a VHD image for Azure Virtual Desktop](#)
- Modify a session host image
  - [Update Session Hosts from Latest Image-Windows Virtual Desktop](#)
- Install language packs in Azure Virtual Desktop
  - [Add language packs to a Windows 10 multi-session image](#)
- Deploy a session host by using a custom image
  - [wvd session host with custom image](#)
  - [Prepare and customize a VHD image for Azure Virtual Desktop](#)
- Plan for image update and management
- Create and use a Shared Image Gallery
  - [Create an image of a VM in the portal](#)
  - [Deploy a Shared Image Gallery image to Windows Virtual Desktop](#)
- Troubleshoot OS issues related to Azure Virtual Desktop
  - [Troubleshoot common Azure Virtual Desktop Agent issues](#)

## **Manage access and security (10-15%)**

### **Manage access**

- Plan and implement Azure roles and role-based access control (RBAC) for Azure Virtual Desktop
  - [Built-in Azure RBAC roles for Azure Virtual Desktop](#)
  - [Delegated access in Azure Virtual Desktop](#)
- Manage roles, groups and rights assignment on Azure Virtual Desktop

session hosts

- [Configure the personal desktop host pool assignment type](#)
- Configure user restrictions by using AD group policies and Azure policies
  - [Administer Group Policy in an Azure Active Directory Domain Services managed domain](#)

## Manage security

- Plan and implement Conditional Access policies for connections to Azure Virtual Desktop
  - [Create a Conditional Access policy](#)
- Plan and implement multifactor authentication in Azure Virtual Desktop
  - [Enable Azure multifactor authentication for Azure Virtual Desktop](#)
- Manage security by using Azure Security Center
  - [Protecting Windows Virtual Desktop environments with Azure Security Center](#)
- Configure Microsoft Defender Antivirus for session hosts
  - [Enable endpoint protection](#)
  - [Deployment guide for Microsoft Defender Antivirus in a VDI environment](#)

## Manage user environments and apps (20-25%)

### Implement and manage FSLogix

- Plan for FSLogix
  - [Plan FSLogix Storage](#)
- Install and configure FSLogix
  - [Download and Install FSLogix](#)
- Configure Profile Containers
  - [Configure Profile Container to redirect User Profiles](#)
- Configure Cloud Cache

- [Configure Cloud Cache to redirect profile containers or office container to multiple Providers](#)
- Migrate user profiles to FSLogix
  - [MIGRATE/CONVERT MICROSOFT USER PROFILE DISKS TO FSLOGIX VHD](#)

## **Configure user experience settings**

- Configure Universal Print
  - [Set up Universal Print](#)
- Configure user settings through group policies and Endpoint Manager policies
  - [Administer Group Policy in an Azure Active Directory Domain Services managed domain](#)
  - [Assign user and device profiles in Microsoft Intune](#)
- Configure persistent and non-persistent desktop environments
  - [Device identity and desktop virtualization](#)
- Configure Remote Desktop Protocol (RDP) properties on a host pool
  - [Customize Remote Desktop Protocol \(RDP\) properties for a host pool](#)
- Configure session timeout properties
  - [Configuring RDP/RDS Sessions Limits \(Timeouts\) on Windows](#)
  - [Configure Timeout and Reconnection Settings for Remote Desktop Services Sessions](#)
- Troubleshoot user profile issues
  - [Troubleshoot user profiles with events](#)
- Troubleshoot Azure Virtual Desktop clients
  - [Troubleshoot the Remote Desktop client](#)

## **Install and configure apps on a session host**

- Configure dynamic application delivery by using MSIX App Attach
  - [What is MSIX app attach?](#)

- [Deploy applications by using MSIX app attach for Azure Virtual Desktop](#)
- Implement application masking
  - [Implement FSLogix Application Masking](#)
- Deploy an application as a RemoteApp
- Implement and manage OneDrive for Business for a multi-session environment
  - [How to start OneDrive \(and automatically sign-in\) when using a RemoteApp in WVD](#)
- Implement and manage Microsoft Teams AV Redirect
  - [Use Microsoft Teams on Azure Virtual Desktop](#)
  - [Learn how to install and configure Microsoft Teams with AV Redirection](#)
- Implement and manage browsers and internet access for Azure Virtual Desktop sessions
  - [Connect to Azure Virtual Desktop with the web client](#)
  - [Host pool outbound access to the internet](#)
- Create and configure an application group
  - [Manage app groups with the Azure portal](#)
- Troubleshoot application issues related to Azure Virtual Desktop
  - [Troubleshoot the Remote Desktop client](#)

## Monitor and maintain an Azure Virtual Desktop infrastructure (20- 25%)

### Plan and implement business continuity and disaster recovery

- Plan and implement a disaster recovery plan for Azure Virtual Desktop
  - [Azure Virtual Desktop disaster recovery](#)
- Design a backup strategy for Azure Virtual Desktop
  - [Azure Virtual Desktop FAQ](#)
  - [Back up a virtual machine in Azure](#)
  - [Set up disaster recovery to a secondary Azure region for an Azure](#)

## VM

- [Create a snapshot of a virtual hard disk](#)
- Configure backup and restore for FSLogix user profiles, personal virtual desktop infrastructures (VDIs), and golden images
  - [Backup and restore](#)
  - [golden image](#)
  - [Back up multiple SQL Server VMs from the Recovery Services vault](#)

## Automate Azure Virtual Desktop management tasks

- Configure automation for Azure Virtual Desktop
  - [Automatically Start and Stop VM's in a Windows Virtual Desktop Host Pool with Azure Automation](#)
- Automate management of host pools, session hosts, and user sessions by using PowerShell and Azure Command-Line Interface (CLI)
  - [Set up scaling tool using Azure Automation for AVD](#)
- Implement autoscaling in host pools
  - [Creating Dynamic Host Pools with Auto-scaling](#)

## Monitor and manage performance and health

- Monitor Azure Virtual Desktop by using Azure Monitor
  - [Use Azure Monitor for Azure Virtual Desktop to monitor your deployment](#)
- Monitor Azure Virtual Desktop by using Azure Advisor
  - [How to resolve Azure Advisor recommendations](#)
- Customize Azure Monitor workbooks for Azure Virtual Desktop monitoring
  - [Monitor Azure Virtual Desktop with Azure Monitor workbooks](#)
- Optimize session host capacity and performance
  - [Optimize Azure Virtual Desktop](#)
- Manage active sessions and application groups
  - [Manage app groups using PowerShell or the Azure CLI](#)

- Monitor and optimize autoscaling results
  - [AVD Scaling Tool-Azure Virtual Desktop](#)

## AZ-140 Exam Retake Policy

The AZ-140 exam retake policy is as follows:


1. If a candidate fails on the first attempt, they must wait for 24 hours before retaking the exam.
2. If a candidate again fails on the second attempt, then the candidate will have to wait for 14 days.

## Conclusion

The purpose of the AZ-140 exam is to check the candidate's aptitude for performing technical tasks, such as planning a virtual desktop architecture, managing access to a virtual desktop, managing user environments and apps, implementing a Windows Virtual Desktop infrastructure, and monitoring and maintaining the infrastructure.

The ideal candidate for this exam is an [Azure](#) administrator with knowledge and experience in planning, designing, and delivering virtual desktops and remote apps across any device the candidate may choose.

## Related/References

- [AZ-600: Azure Stack Hub Operator Associate Exam Study Guide](#)
  - [AZ-700: Azure Network Engineer Associate Exam Study Guide](#)
  - [DP-203: Microsoft Azure Data Engineer Associate Exam Study Guide](#)
  - [DP-100: Microsoft Azure Data Scientist Associate Exam Study Guide](#)
  - [PL-300: Microsoft Power BI Data Analyst Associate Exam Study Guide](#)
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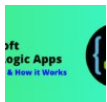
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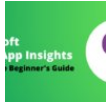
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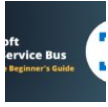
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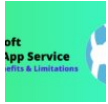
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