

AZ-140: Azure Virtual Desktop Specialty

Deliver secure, cost-efficient virtual desktops on Azure and prepare for the AZ-140 Azure Virtual Desktop Specialty exam.

DURATION

4 days · 32 hours

LEVEL

Intermediate

CURRICULUM

13 modules · 10 labs

DELIVERYLive online, Onsite,
Corporate

Course overview

Azure Virtual Desktop lets organisations give staff, contractors and partners a secure desktop from anywhere without shipping hardware. Doing it well takes careful planning: host pool design, identity integration, profile storage, application delivery, scaling and cost control all affect the user experience. This four-day course takes you through each of these decisions with a full working deployment.

Day one is about planning: capacity and sizing, host pool types, networking, and identity options including Active Directory Domain Services and Microsoft Entra join. Day two builds the environment — host pools, session hosts, workspaces and application groups — and creates a managed golden image.

Day three focuses on the user environment: FSLogix profile containers on Azure Files, application delivery with RemoteApp and app attach, and security controls such as Conditional Access, MFA and screen-capture protection. Day four covers operations: autoscale plans, updates, backup and disaster recovery, monitoring with Azure Virtual Desktop Insights, and common troubleshooting cases, followed by exam preparation.

You finish the course having deployed and operated your own environment, with design notes you can reuse for a proof of concept at work.

This course is aligned to the AZ-140 exam. Microsoft reviews specialty certifications periodically, so confirm the exam is still available and check its current outline on Microsoft Learn before booking.

Highlights

- 32 hours of live, hands-on sessions
- Deploys a complete Azure Virtual Desktop environment
- FSLogix profiles, MSIX app attach and image management
- Autoscale and cost optimisation for host pools
- Monitoring with AVD Insights and troubleshooting drills

What's included

- Complete AVD deployment built by each learner
- Golden image creation with Azure Compute Gallery
- FSLogix profile containers on Azure Files
- RemoteApp and app attach application delivery
- Autoscale and cost optimisation labs
- Troubleshooting drills for common user issues
- 30 days of post-training doubt support

Who this course is for

Who should attend

- Desktop and end-user computing engineers
- Azure administrators supporting remote workforces
- Citrix or Remote Desktop Services administrators moving to Azure
- IT consultants delivering virtual desktop projects

Prerequisites

- Azure administration experience (AZ-104 level recommended)
- Working knowledge of Active Directory and Windows client administration
- Basic networking and PowerShell skills

Detailed curriculum — 4 days, 32 hours, 13 modules, 10 hands-on labs

Day 1 Planning an Azure Virtual Desktop Architecture

8 hours

1.1 Architecture and capacity

- AVD components and service architecture
- Sizing session hosts for user density
- Pooled vs personal host pools
- Multi-session Windows

LAB Size a host pool for a 200-user scenario · 35 min

1.2 Identity and networking

- AD DS, Entra Domain Services and Entra join options
- Private Link for AVD
- Network requirements and RDP Shortpath
- Hybrid connectivity to on-premises resources

LAB Prepare identity and a virtual network for AVD · 50 min

1.3 Storage planning

- Azure Files vs Azure NetApp Files for profiles
- Identity-based access to file shares
- Storage performance tiers

LAB Create and domain-join an Azure Files share for profiles · 40 min

Day 2 Deploying Host Pools and Images

8 hours

2.1 Host pools and workspaces

- Creating host pools and session hosts
- Assigning users and groups
- Application groups and workspaces
- Load-balancing algorithms

LAB Deploy a pooled host pool and publish a desktop · 60 min

2.2 Image management

- Building a golden image
- Image Builder overview
- Azure Compute Gallery and versioning
- Language packs and optimisation

LAB Create, capture and version a golden image · 55 min

2.3 Session host configuration

- RDP properties
- Updating session hosts
- Drain mode and maintenance

Day 3 User Environment, Apps and Security

8 hours

3.1 User profiles

- FSLogix profile containers
- Profile size and exclusions
- Cloud Cache and redundancy

LAB Configure FSLogix profiles on Azure Files · 50 min

3.2 Application delivery

- RemoteApp application groups
- Microsoft 365 Apps on multi-session hosts
- App attach and MSIX packages
- Teams optimisation

LAB Publish RemoteApps and attach a packaged application · 50 min

3.3 Security

- Conditional Access and MFA for AVD
- Defender for Endpoint on session hosts
- Screen capture protection and watermarking
- Network security for host pools

LAB Apply Conditional Access and screen capture protection · 30 min

Day 4 Operations, Monitoring and Exam Readiness

8 hours

4.1 Scaling and cost

- Autoscale scaling plans
- Reserved instances and savings plans
- Start VM on Connect
- Cost reporting per host pool

LAB Configure an autoscale plan and test ramp-down · 40 min

4.2 Business continuity

- Backup for session hosts and profiles
- Disaster recovery options
- Multi-region design

4.3 Monitoring and troubleshooting

- Azure Virtual Desktop Insights
- Common sign-in and profile issues
- Log Analytics queries for connections
- Performance troubleshooting

LAB Diagnose connection and profile issues with AVD Insights · 45 min

4.4 Exam readiness

- Exam format and scenario questions
- Practice questions with review

Skills and tools

Skills you will build

Azure Virtual Desktop

Host pools

Session hosts

FSLogix

Azure Files

Golden images

Azure Compute Gallery

App attach

RemoteApp

Conditional Access

Autoscale

AVD Insights

Tools used in class

Azure portal

Azure Virtual Desktop

FSLogix

Azure Compute Gallery

Windows App / Remote Desktop client

Azure PowerShell

Log Analytics

Certification exam

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam Microsoft Certified: Azure Virtual Desktop Specialty

Exam code AZ-140

Passing score 700 / 1000 (scaled)

Delivery	Online proctored, Test centre
Validity	1 year (free online renewal assessment)
Official page	https://learn.microsoft.com/credentials/certifications/exams/az-140/

Exam skill areas covered

Plan and implement on-premise and Azure Virtual Desktop infrastructure
Monitor and maintain on-premise and Azure Virtual Desktop infrastructure

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Frequently asked questions

Is the AZ-140 exam still available?

We check its status regularly, but Microsoft can retire specialty exams at short notice. Confirm on Microsoft Learn before booking; the skills you learn apply to AVD projects either way.

Do I need Active Directory experience?

Yes, basic AD and Windows client administration are expected, because identity integration and profiles depend on them.

Will I build my own AVD environment?

Yes. Each learner deploys a host pool, image, profile storage and applications in a lab subscription.

What happens if Microsoft updates the AZ-140 exam?

We map the curriculum to the current published skills outline and revise it when Microsoft changes the exam. Always check the latest outline on Microsoft Learn before booking.

Can you run a private batch for our team?

Yes. We run private online or onsite batches for corporate teams, and we can weight the labs towards your remote-work and desktop strategy. Request a corporate quote with your team size and preferred dates.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/az-140-azure-virtual-desktop-specialty · Email: info@aceskillsconsulting.com

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