AZ-140 Agenda

Learning Path 1

- 1. Azure Virtual Desktop Architecture
- 2. Design the Azure Virtual Desktop architecture
- 3. Design for user identities and profiles _____

Learning Path 2

- 4. Implement and manage networking for AVD
- 5. Implement and manage storage for AVD
- 6. Create and configure host pools and session hosts for AVD
- 7. Create and manage session host image for AVD

Learning Path 3

- 8. Manage access for AVD
- 9. Manage security for AVD

Learning Path 4

- 10. Implement and manage FSLogix
- 11. Configure user experience settings
- 12. Install and configure apps on a session host

Learning Path 5

- 13. Monitor and manage performance and health
- 14. Plan and implement updates, backups, and disaster recovery



Design for user identities and profiles



Introduction

- Select an appropriate licensing model for Azure Virtual Desktop based on requirements
- Personal and multi-session desktop scenarios
- Recommend an appropriate storage solution
- Plan for a Desktop client deployment
- Plan for Azure Virtual Desktop client deployment Remote Desktop Protocol (RDP)
- Windows Desktop client to multiple devices
- Hybrid Identity with Entra ID

Select an appropriate licensing model for Azure Virtual Desktop based on requirements



Licensing for Azure Virtual Desktop

Operating system (64-bit only)	Licensing method (Internal commercial purposes)	Licensing method (External commercial purposes)
 Windows 11 Enterprise multi-session Windows 11 Enterprise Windows 10 Enterprise multi-session Windows 10 Enterprise 	10W/INAAWC FATArArICA F3 F5	• <u>Per-user access pricing</u> by enrolling an Azure subscription.
• <u>Windows Server 2022</u> • <u>Windows Server 2019</u> • <u>Windows Server 2016</u>	INCOME STATE OF STATE	•Windows Server 2022 RDS Subscriber Access License (SAL). Per-user access pricing isn't available for Windows Server operating systems.

Personal and multi-session desktop scenarios



Comparing licensing options

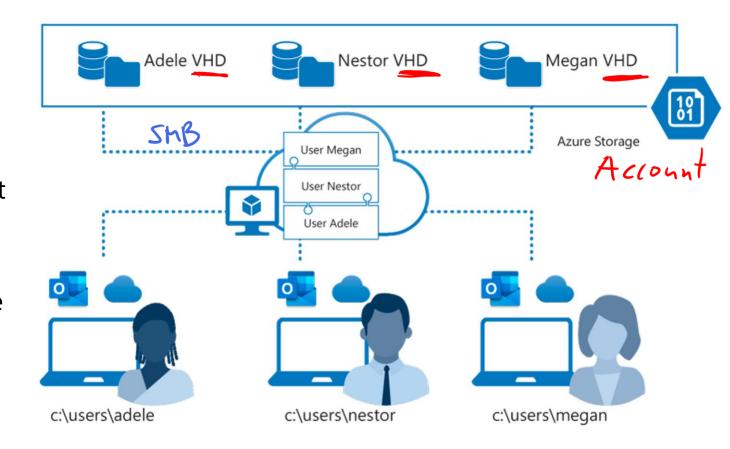
Here's a summary of the two types of licenses for Azure Virtual Desktop you can choose from:

Component	Eligible Windows, Microsoft 365, or RDS license	Per-user access pricing	
Access rights		External commercial purposes only. It doesn't grant access to members of your own organization or contractors for internal business purposes.	
Billing	Licensing channels.	Pay-as-you-go through an Azure meter, billed to an Azure subscription.	
	Fixed cost per user each month regardless of user behavior.	Cost per user each month depends on user behavior.	
Other products	Dependent on the license.	Only includes access rights to Azure Virtual Desktop and <u>FSlogix</u> .	

Recommend an appropriate storage solution



- FSLogix is designed to roam profiles in remote computing environments, such as Azure Virtual Desktop
- At sign-in, a container is dynamically attached to the computing environment using a natively supported VHD and a VHDX
- The user profile is immediately available and appears in the system exactly like a native user profile



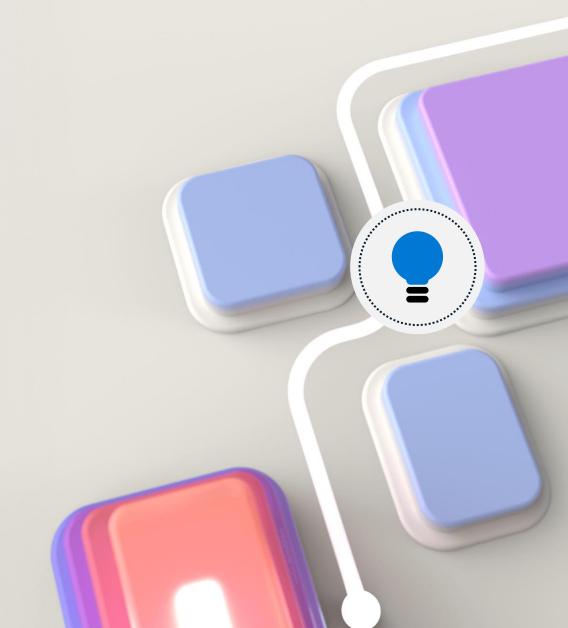
Plan for a Desktop client deployment



Microsoft Remote Desktop clients connect to Azure Virtual Desktop and use and control desktops and apps that your admin has made available to you.

Platform	Documentation and download links	Version	
		information	
Windows	Connect to Azure Virtual Desktop with the Remote	What's new	
	Desktop client for Windows		
Web	Connect to Azure Virtual Desktop with the Remote	What's new	
	Desktop client for Web		
macOS	Connect to Azure Virtual Desktop with the Remote	What's new	
	Desktop client for macOS		
iOS/iPadOS	Connect to Azure Virtual Desktop with the Remote	What's new	
	Desktop client for iOS and iPadOS		
Android/Chrome O	S Connect to Azure Virtual Desktop with the Remote	What's new	
	Desktop client for Android and Chrome OS		

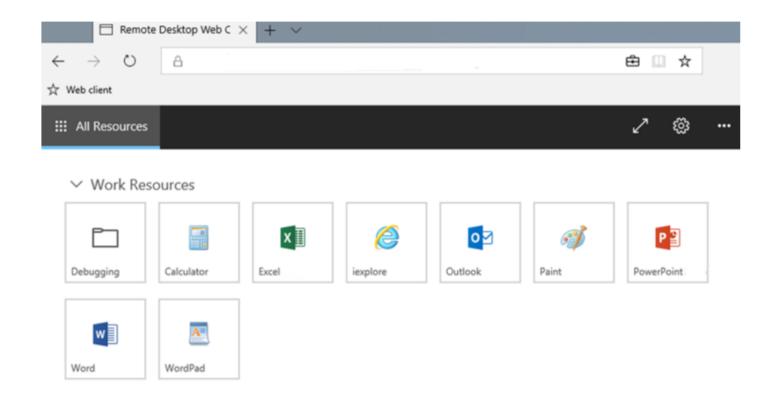
Plan for Azure Virtual
Desktop client deployment Remote Desktop Protocol
(RDP)



Remote Desktop web client uses a compatible web browser to access remote resources (apps and desktops) published to you by your admin.

For access to remote apps and desktops, users need:

- A domain
- Username
- Password
- URL (provided by the admin)
- A supported web browser



Windows Desktop client to multiple devices



Deploying using group policies or the Microsoft Endpoint Configuration Manager lets you run the installer silently using a command line.

Per-device installation, run:

```
msiexec.exe /i <path to the MSI> /qn ALLUSERS=1
```

Per-user installation, run:

msiexec.exe /i `<path to the MSI>` /qn ALLUSERS=2 MSIINSTALLPERUSER=1

Hybrid Identity with Microsoft Entra ID



Hybrid Identity with Microsoft Entra ID

- **Hybrid Deployment**: Businesses are increasingly using a mix of on-premises and cloud applications, requiring user access across both environments.
- Hybrid Identity: Microsoft's identity solutions provide a unified user identity for authentication and authorization across all resources, regardless of location.
- **Provisioning**: This process involves creating, updating, and deleting objects based on specific conditions to maintain up-to-date user information.
- **Synchronization**: Ensures that identity information for on-premises users and groups matches the information in the cloud.

Hybrid Identity with Azure Active Directory

You can use the following authentication methods to implement hybrid identity with Entra ID AZNIE

- Password hash synchronization (PHS)
- Pass-through authentication (PTA)
- Federation (AD FS)

Fed Server on Irem

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Common hybrid identity and access management scenarios with recommendations for hybrid identity options.

I need to:	PHS and SSO#	PTA and SSO ₂	AD FS
Sync new user, contact, and group accounts created in my on- premises Active Directory to the cloud automatically.	Yes	Yes	Yes
Set up my tenant for Office 365 hybrid scenarios.	Yes	Yes	Yes
Enable my users to sign in and access cloud services using their on-premises password.	Yes	Yes	Yes
Implement single sign-on using corporate credentials.	Yes	Yes	Yes
Ensure no password hashes are stored in the cloud.		Yes	Yes
Enable cloud-based multifactor authentication solutions.	Yes	Yes	Yes
Enable on-premises multifactor authentication solutions.			Yes
Support smartcard authentication for my users.			Yes
Display password expiry notifications in the Office Portal and on the Windows 10 desktop.			Yes

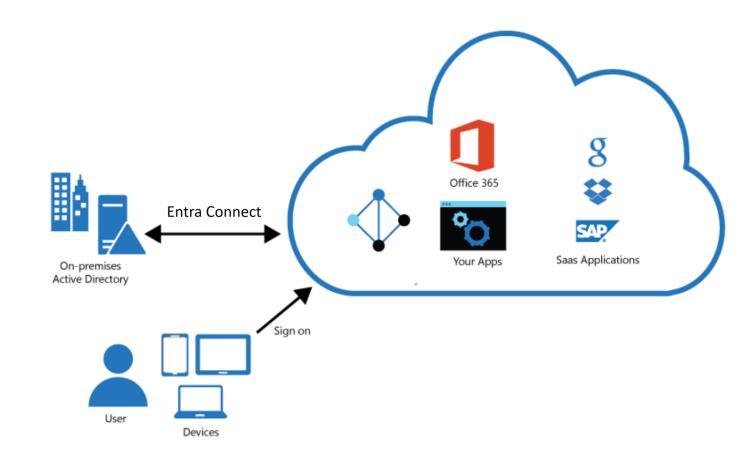
Plan for Entra Connect for user identities



Plan for Entra Connect for user identities

Integrating on-premises directories with Entra ID provides a common identity for accessing both cloud and on-premises resources.

- Users can use a single identity to access on-premises applications and cloud services such as Office 365.
- Single tool to provide an easy deployment experience for synchronization and sign-in.
- Entra Connect replaces older versions of identity integration tools such as DirSync and Azure AD Sync.



Summary



Summary

What you learned:

- Select a licensing model for Azure Virtual Desktop.
- Describe personal and multi-session desktop scenarios
- Plan a storage solution storing FSLogix profile containers
- Plan for a Desktop client deployment
- Deploy Windows Desktop client to multiple devices
- Describe Hybrid Identity for Azure Virtual Desktop



End of presentation

