Azure Virtual Desktop

Martin Bügel

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Cegeka Consulting

About

- Working at Cegeka Consulting (former KPN Consulting) since 2014
- Microsoft workplace focus
  - Microsoft Endpoint Manager
    - Configuration Manager
    - Intune
  - Windows Server, Active Directory, PowerShell, Azure, Security
  - Azure Virtual Desktop

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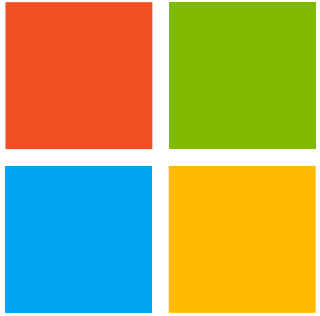
Customer project

- Sizing 2000 users, 1000 concurrent
- Multi-session deployment
- POC for replacement of current environment, now production implementation
- Cegeka partnership with Microsoft FastTrack



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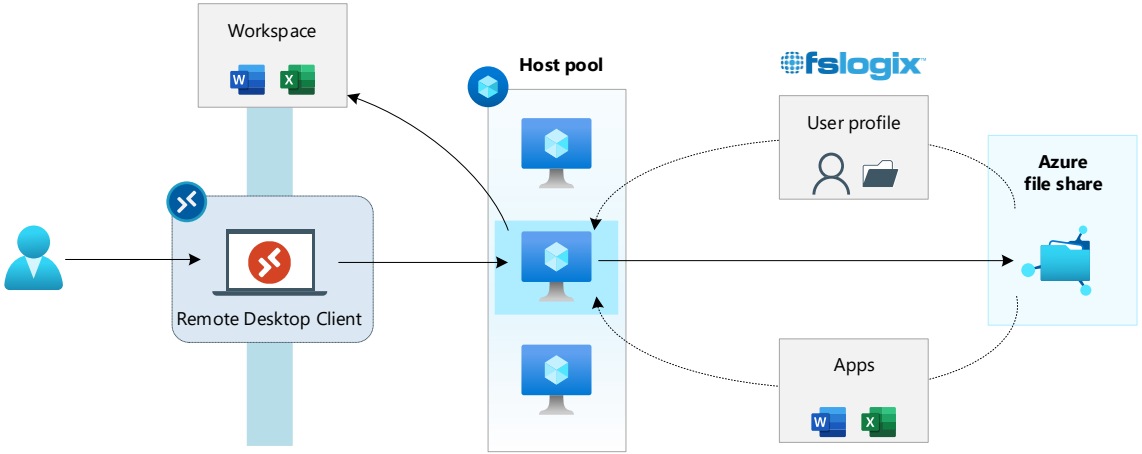
Azure Virtual Desktop

- Remote desktop & app virtualization solution in Azure
- Windows 10&11, Windows 7, Windows Server
- Pooled & personal



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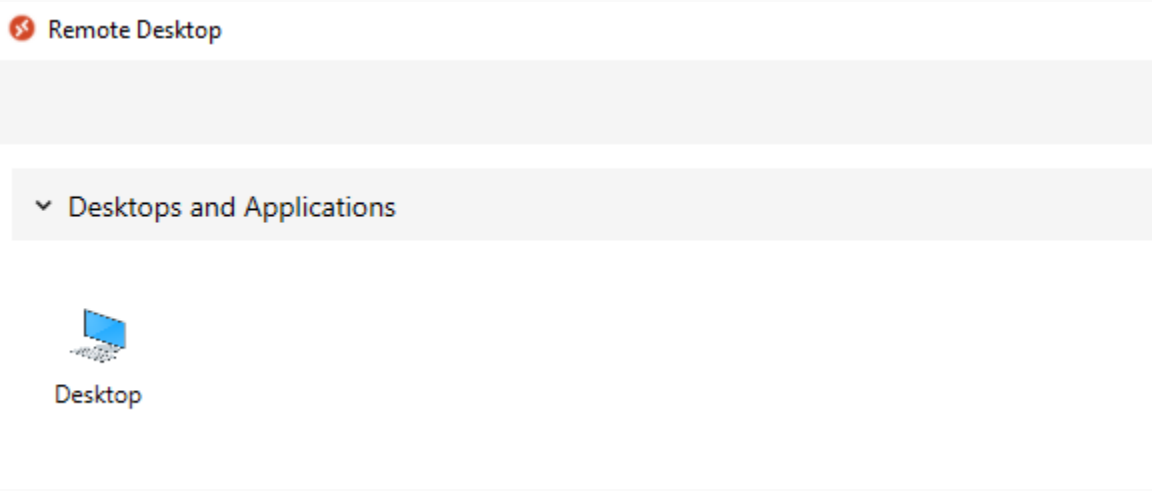
Connecting to AVD

- Windows (Store, MSI)
- MacOS
- Android
- iOS
- Web client (HTML5)



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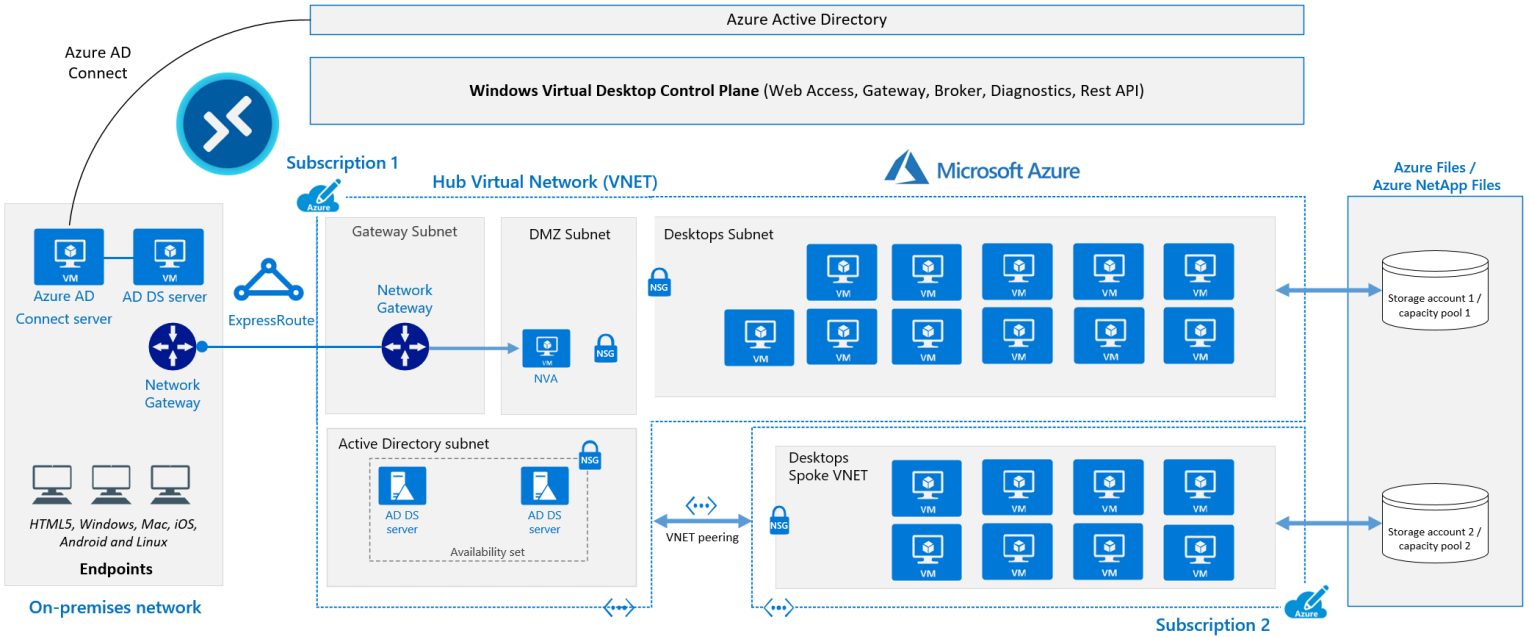
Azure Virtual Desktop



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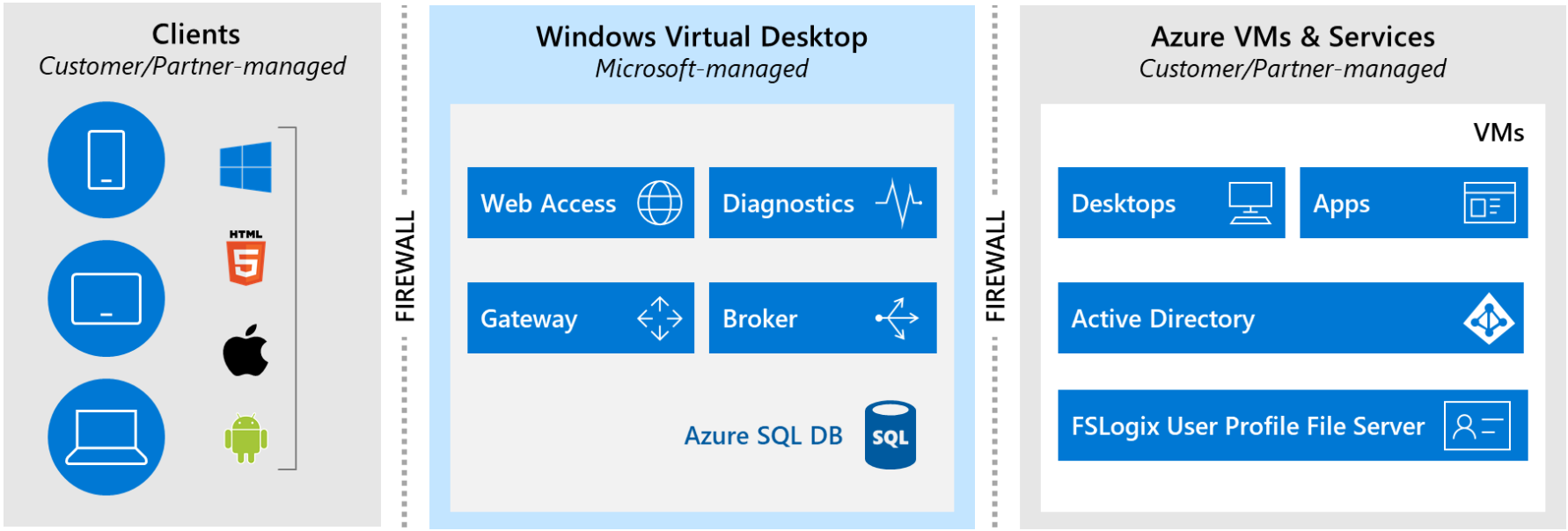
Azure Virtual Desktop



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Licenses

OS	Required license
Windows 10 Enterprise multi-session or Windows 10 Enterprise	Microsoft 365 E3, E5, A3, A5, F3, Business Premium Windows E3, E5, A3, A5
Windows 7 Enterprise	Microsoft 365 E3, E5, A3, A5, F3, Business Premium Windows E3, E5, A3, A5
Windows Server 2012 R2, 2016, 2019	RDS Client Access License (CAL) with Software Assurance

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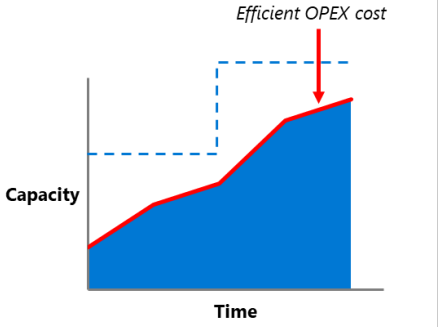
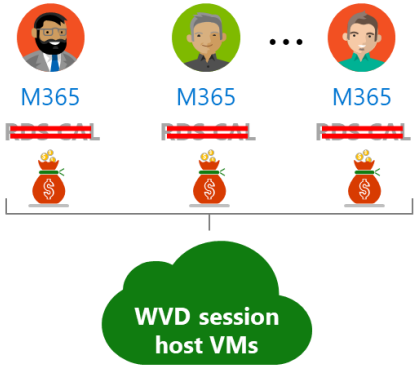
Financial reasons to consider AVD

Cloud

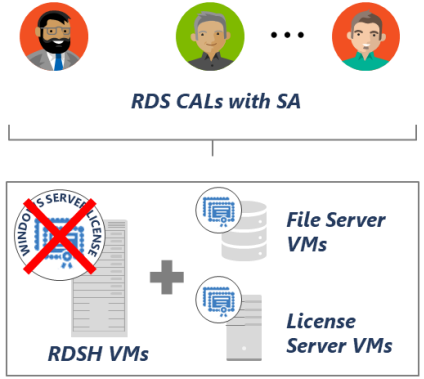


Pay on monthly basis for actual capacity

Windows 10 Enterprise Multi-session in WVD



Windows Server RDS in WVD



WVD

Windows 7

Year	ESU Cost (/ device)	
	Enterprise	Pro
2020	$25	$50
2021	$50	$100
2022	$100	$200

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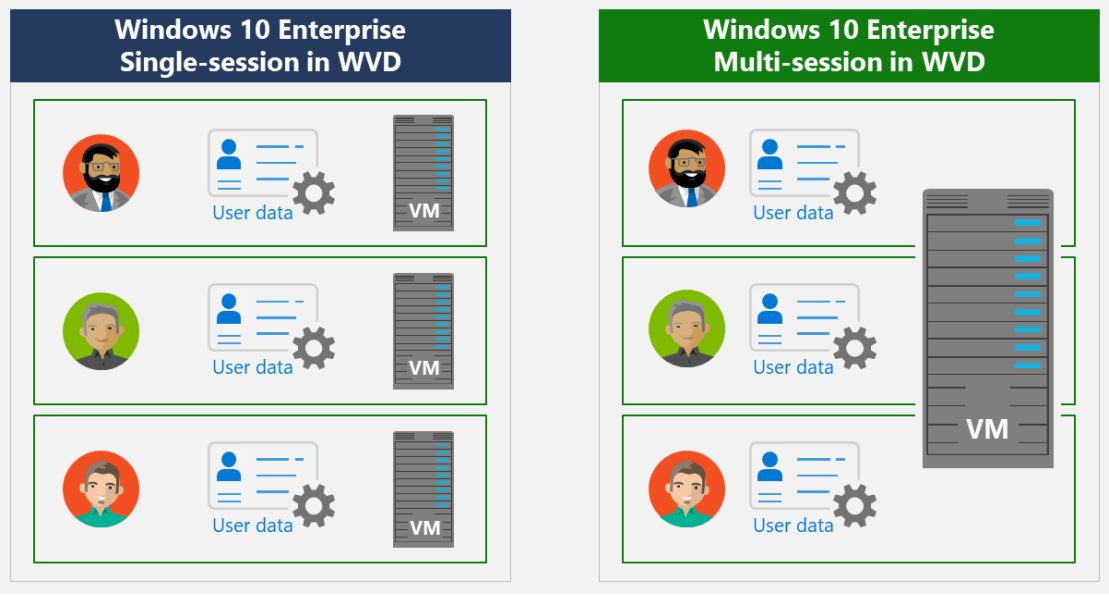
Windows 10/11 Enterprise multi-session

- Windows 10/11 Enterprise
- Unique for AVD
- No additional license cost (depending on license)



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Windows 10 multi-session vs Windows Server

	Windows 10 multi-session	Windows Server
RDCAL with SA required	No	Yes
Office 365 Support End Date	No	Yes (2025)
Best application compatibility	Yes	No
Regular feature updates	Yes	No

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Requirements

Azure subscription

Azure Active Directory

Determine your identity strategy

- AD
- AAD DS

New! Azure AD

All associated Azure resources in one region

- Image
- Virtual Network
- Storage

Required credentials

- Azure AD
- AD Domain join account
- Subscription Contributor

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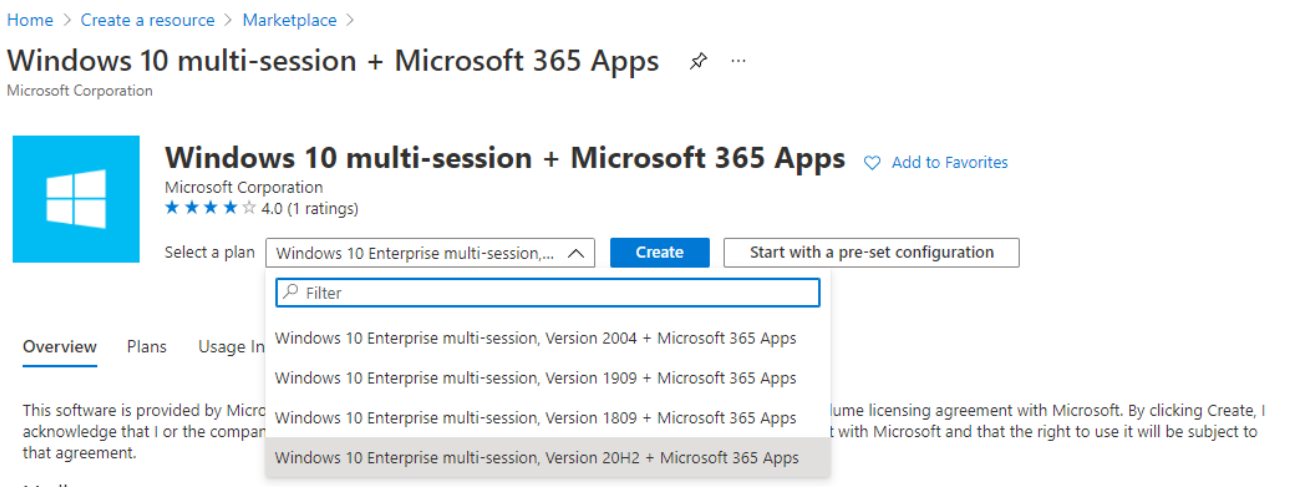
Images

- Marketplace image
- Custom image



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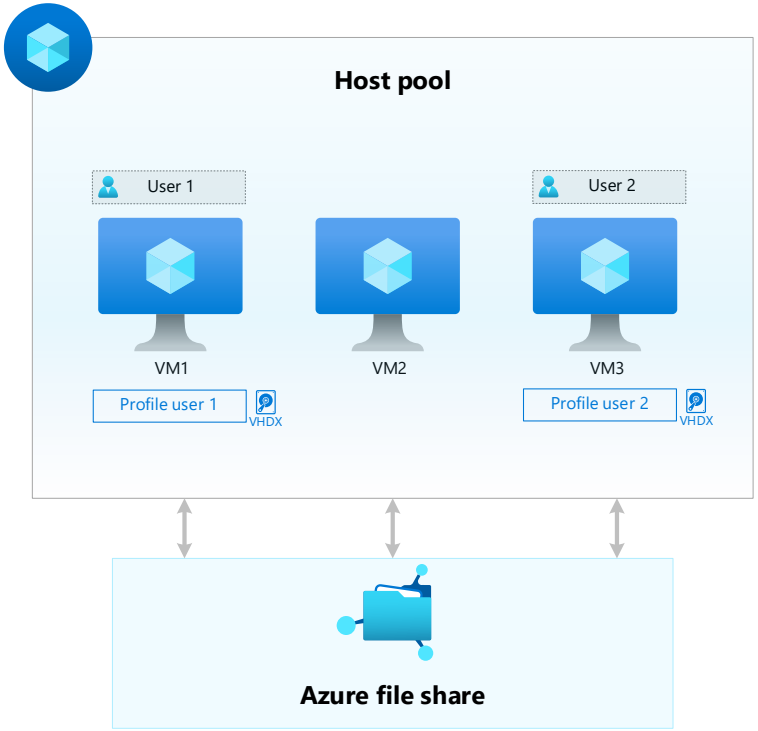
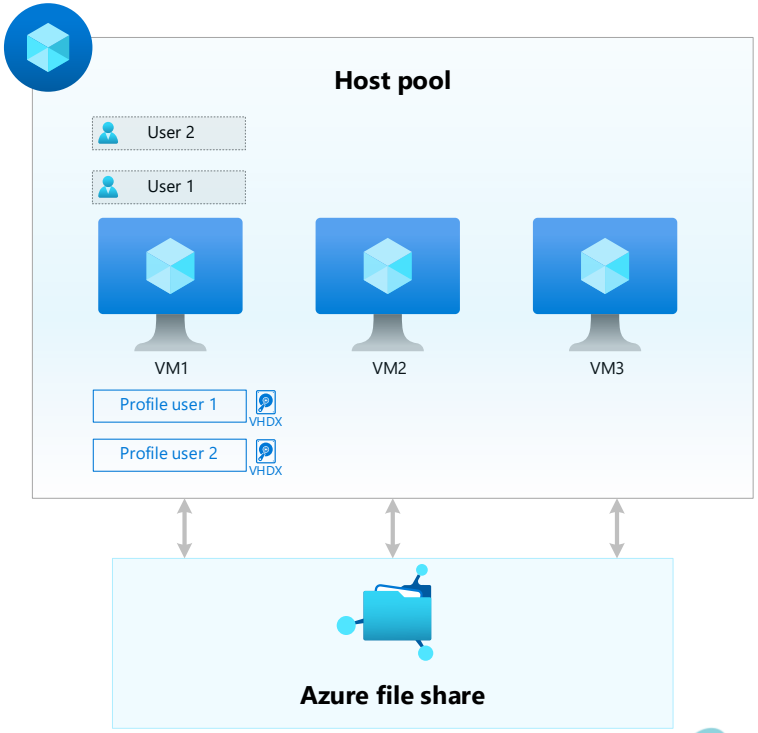
Profiles (FSLogix)





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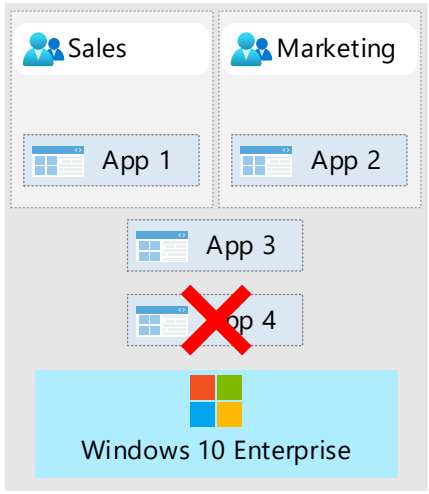
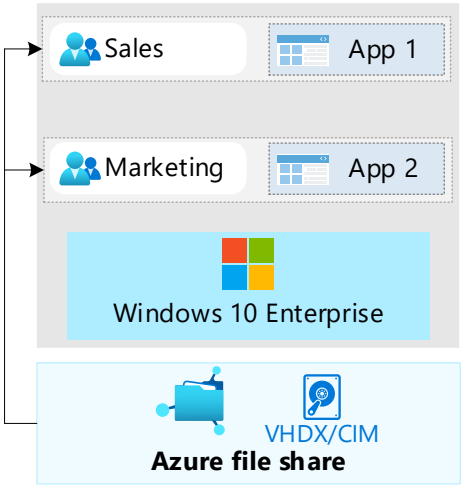
Applications

Installation in image



FSLogix App masking
+
installation in image



MSIX App Attach

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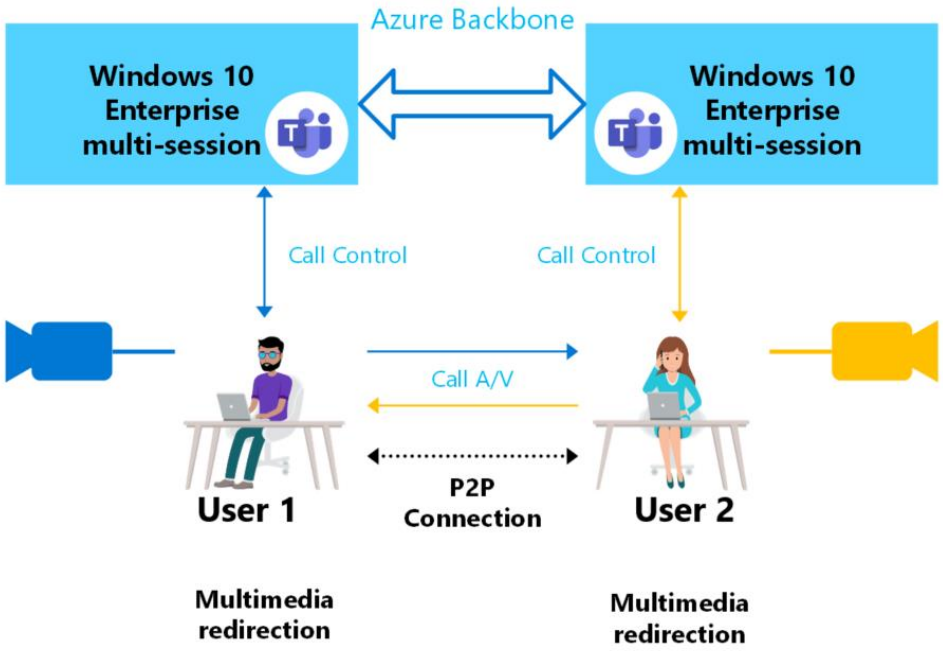
Microsoft Teams

- Media optimization redirects audio and video to the local device



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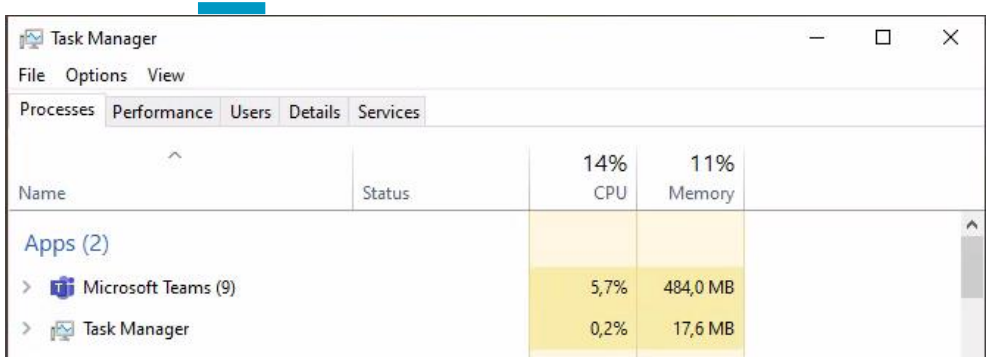
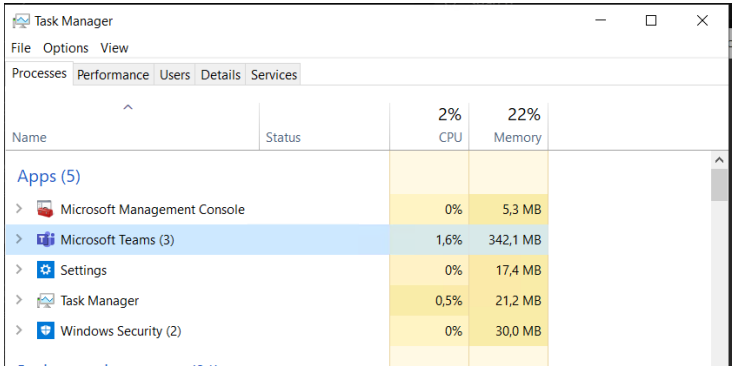
Teams media optimization

Not optimized



Optimized



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Client support for Teams media optimization

Client	Supported	Notes
Windows Desktop	Yes	On by default, user cannot disable this
Windows Store	No	
Android remote desktop app	No	
iOS remote desktop app	No	
MacOS remote desktop app	Yes	Preview; user must enable this first
Web browser (HTML 5)	No	

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Teams limitations on AVD

- No auto update on multi-session OS
- Give / take control not supported
- Incoming video feed limited to 1
- New meeting experience not supported

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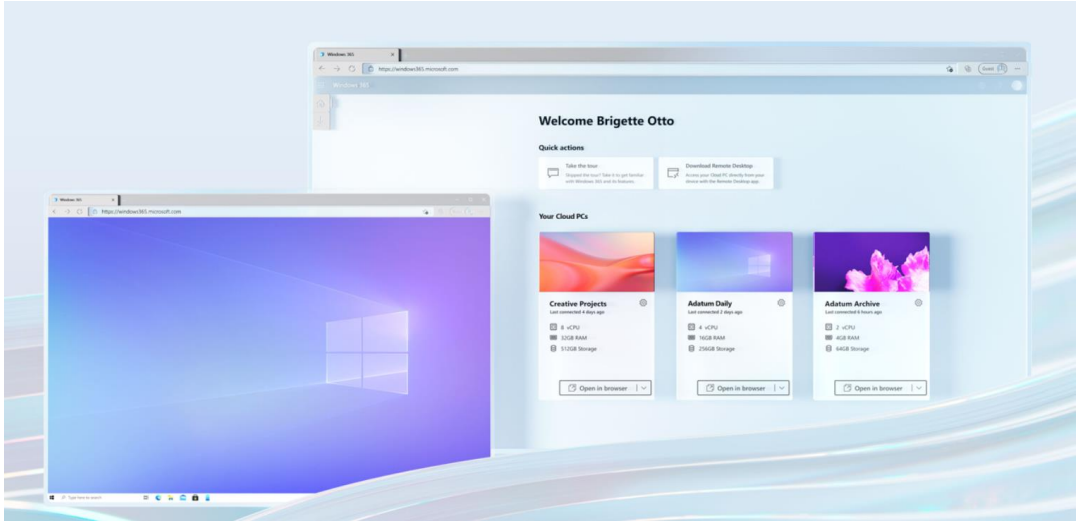
Windows 365 cloud PC

- Personal dedicated workstation from Azure
- Based on Azure Virtual Desktop
- Easier management



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How does it compare to AVD?

Windows 365 Cloud PC	Azure Virtual Desktop
Windows 10/11 personal desktops	Windows 10, Windows 11, Windows Server single & multi-session desktops
Desktop experience	Desktop and remote app experience
Integration in MEM (Enterprise edition)	Full control over management solution
(fixed) pricing per month	Usage based pricing

- *"For greater customization and flexibility, especially if your organization has virtualization expertise, we recommend Azure Virtual Desktop"*

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Thank you for your attention

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