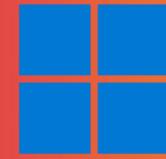


Windows 365 – PC v oblaku

Slavko Kukrika

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MCT in prijazen fant



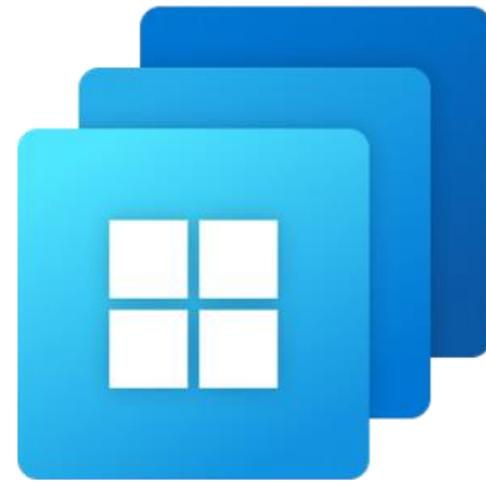
Windows 365



Agenda

- ➔ What is Windows 365?
- ➔ High-level Windows 365 architecture
- ➔ Deploying Windows 365 Enterprise
- ➔ Connecting to Windows 365
- ➔ Questions & Answers

What is Windows 365?



Cloud Service that provides Desktop as a Service (Cloud PC)

Cloud PC is VM, based on Windows 10 Enterprise

- Virtual machine is running in "Microsoft Azure subscription"

- VM can be of several sizes (CPU, Memory, Storage)

- Cloud PC has predictable, per user per month price (not consumption based)

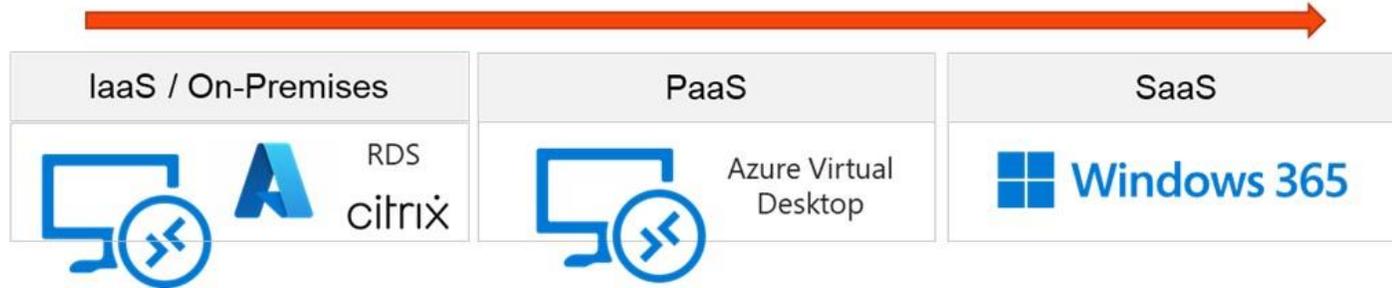
You can access Cloud PC from any device

- HTML5 web browser or Remote Desktop app (Windows, Android, iOS, Mac, Linux soon)

Available as Windows 365 Business and Windows 365 Enterprise

Road to Windows 365

Evolution of the Virtual Desktop



Azure Virtual desktop is cloud VDI

Optimized for flexibility - Platform as a Service

Windows 365 is Cloud PC

Optimized for simplicity - Software as a Service

Personal desktop, managed by Endpoint Manager

Applications	Applications	Applications	Applications
OS Mgmt + Security			
Desktop OS	Desktop OS	Desktop OS	Desktop OS
Provisioning	Provisioning	Provisioning	Provisioning
Desktop Virtualisation	Desktop Virtualisation	Desktop Virtualisation	Desktop Virtualisation
Load Balancing	Load Balancing	Load Balancing	Load Balancing
Server OS	Server OS	Server OS	Server OS
Compute	Compute	Compute	Compute
Storage	Storage	Storage	Storage
Networking	Networking	Networking	Networking
Physical Security	Physical Security	Physical Security	Physical Security
Capex	Capex + Variable Opex	Variable Opex	Known Opex
On-Premises	IaaS	PaaS	SaaS



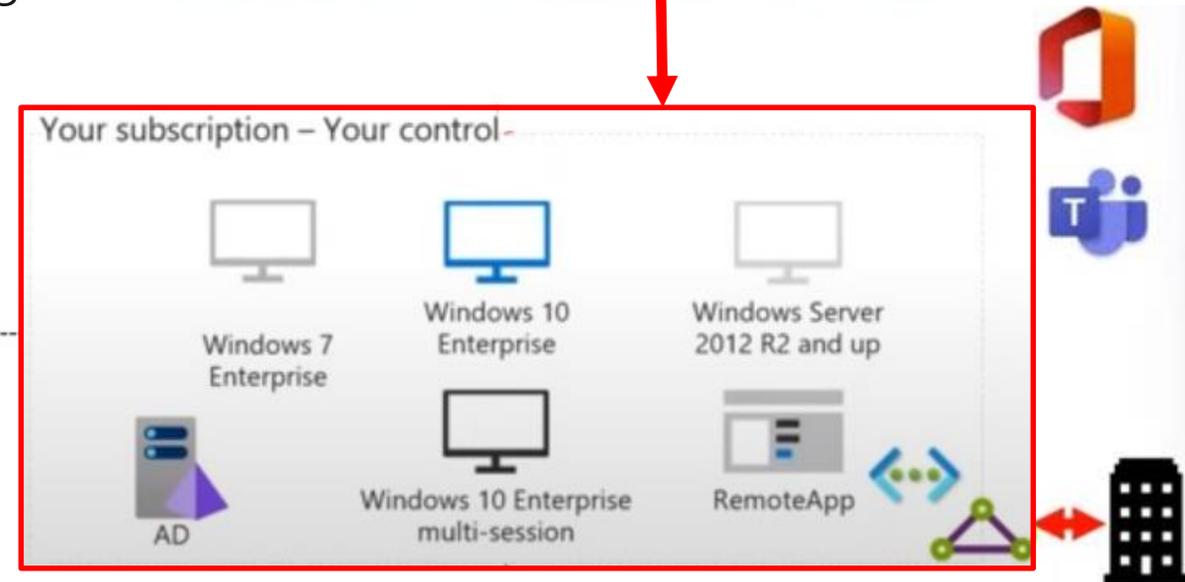
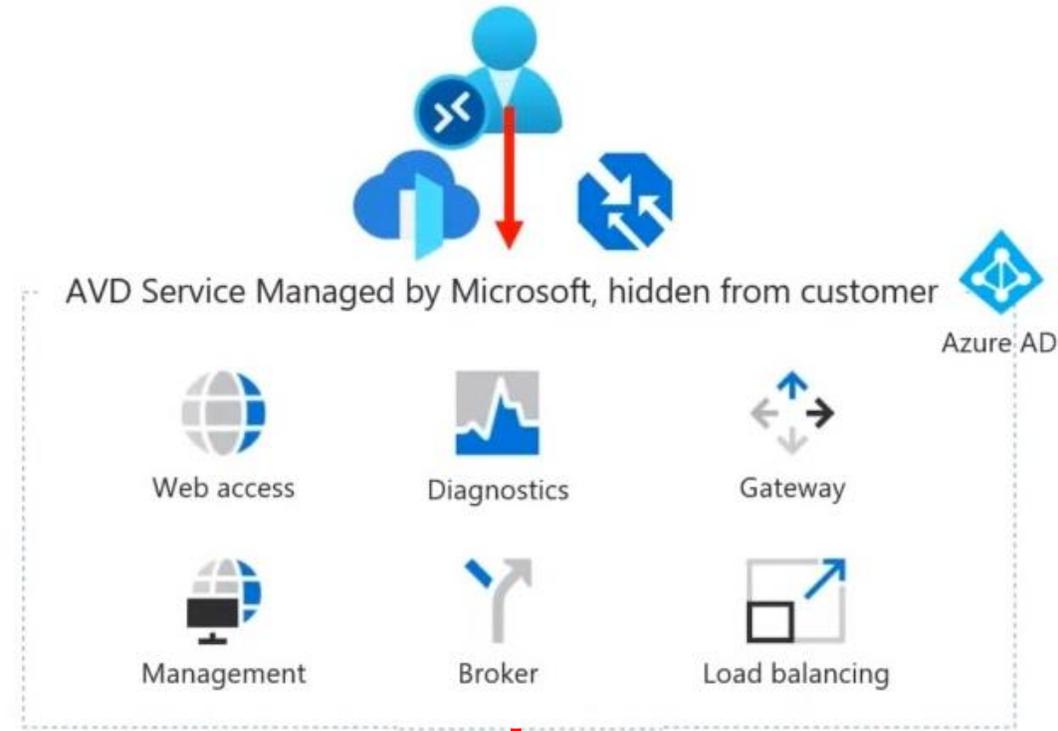
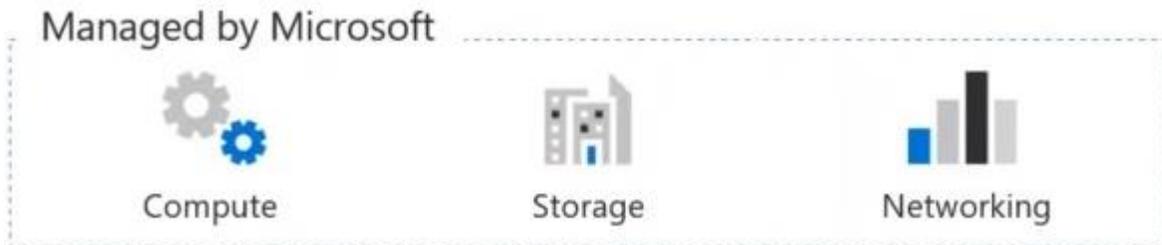
High Level Architecture - AVD

Use Azure Active Directory Identity management service
Provide virtualization infrastructure as a managed service
AVD is implemented as Platform as a Service (PaaS)

Windows 10 Enterprise, Multi-session and Windows Server
Can virtualize both desktops and apps

Deploy and manage virtual machines in Azure subscription
Manage using existing tools like Configuration Manager or
Endpoint Manager

Connect easily to on-premises resources



Windows 365 – built on AVD

Use Azure Active Directory Identity management service

Uses same Remote Desktop clients as AVD

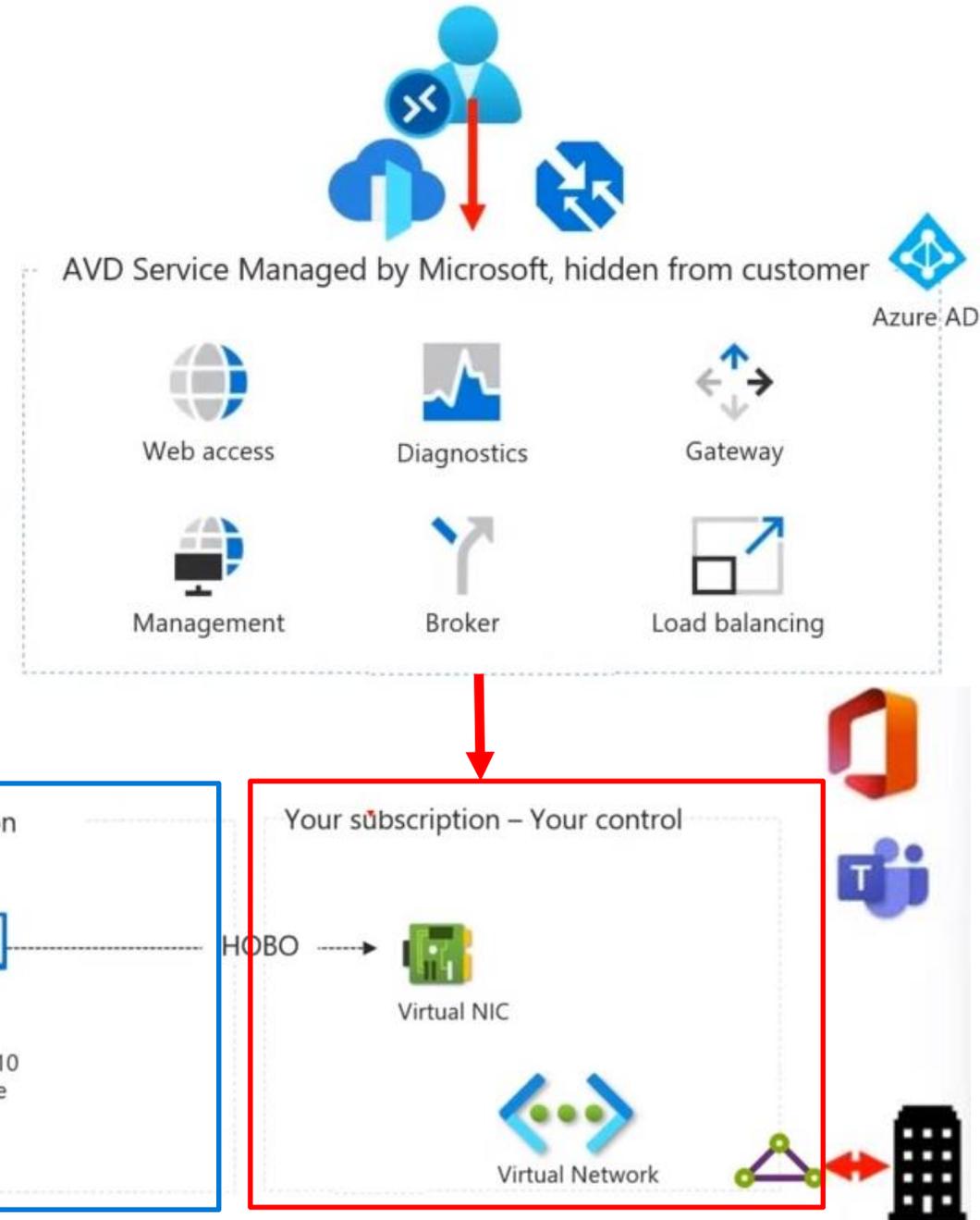
Uses same control plane as AVD

Windows 365 is Desktop as a Service solution

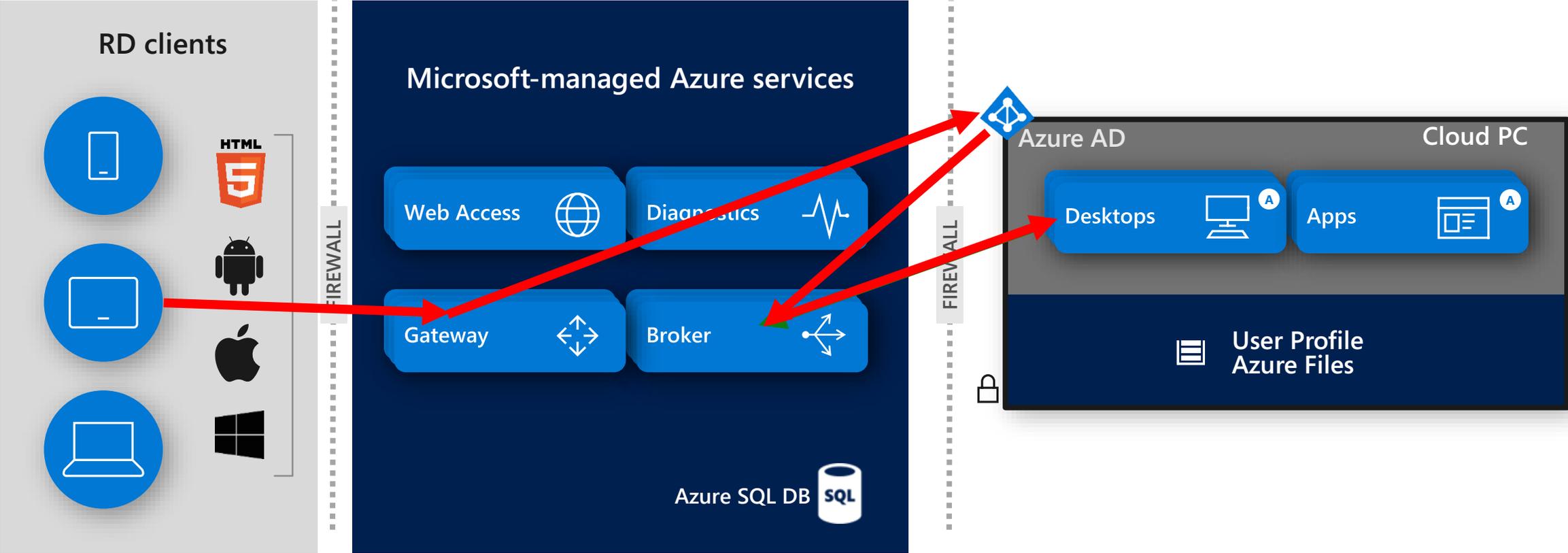
- Cloud PCs deployed in Microsoft managed subscription

- Virtual NICs are deployed in your Azure subscription

Connect easily to on-premises resources



Secure connections to Windows 365



Technical and license requirements

License			Users w/ Windows Pro endpoints: W10 E3 + EMS ¹ E3 or M365 F3/E3/E5/BP Users w/ Non-Windows Pro endpoints: Win VDA E3 + EMS ¹ E3 or M365 F3/E3/F5/BP
Azure Subscription			At least 1 needed for an Azure Virtual Network (Enterprise)
Network			Azure Virtual Network with line of sight to Domain Controller
Machine Identity			Hybrid Azure AD Join (HAADJ) – (AAD Connect)
User Identity			Hybrid users (AD + AAD) – (AAD Connect)
Image			Gallery or BYO in Azure (Win10 Ent 19H1+)
Management			Microsoft Endpoint Manager (supports SCCM co-management)
Admin Permissions			M365: Intune Service Admin (standard MEM RBAC after provisioning) Azure: Subscription Owner (setup network connection)

1. Intune + AADP1 can be used as substitute for EMS E3

Available Windows 365 SKUs

VM/OS DISK SIZE	EXAMPLE SCENARIOS	RECOMMENDED APPS
1 vCPU/2 GB/64 GB	Firstline Workers, Call centers, Education/Training/CRM access	Office light (web-based), Microsoft Edge, OneDrive, lightweight line-of-business app (e.g., call center application—web-apps), Defender support
2 vCPU/4 GB/256 GB 2 vCPU/4 GB/128 GB 2 vCPU/4 GB/64 GB	Mergers and acquisitions, Short-term and seasonal, Customer Services, Bring-Your-Own-PC, Work from home	Microsoft 365 Apps, Microsoft Teams (audio-only), Outlook, Excel, PowerPoint, OneDrive, Adobe Reader, Edge, Line-of-business app(s), Defender support
2 vCPU/8 GB/256 GB 2 vCPU/8 GB /128 GB	Bring-Your-Own-PC, Work from home, Market researchers, Government, Consultants	Microsoft 365 Apps, Microsoft Teams, Outlook, Excel, Access, PowerPoint, OneDrive, Adobe Reader, Edge, Line-of-business app(s), Defender support
4 vCPU/16 GB/512 GB 4 vCPU /16 GB /256 GB 4 vCPU /16 GB /128 GB	Finance, Government, Consultants, Healthcare services, Bring-Your-Own-PC, Work from home	Microsoft 365 Apps, Microsoft Teams, Outlook, Excel, Access, PowerPoint, Power BI, Dynamics 365, OneDrive, Adobe Reader, Edge, Line-of-business app(s), Defender support
8 vCPU /32 GB /512 GB 8 vCPU /32 GB /256 GB 8 vCPU /32 GB /128 GB	Software developers, Engineers, Content creators, Design and engineering workstations	Microsoft 365 Apps, Microsoft Teams, Outlook, Access, OneDrive, Adobe Reader, Edge, Power BI, Visual Studio Code, Line-of-business app(s), Defender support

You can resize Windows 365 Enterprise Cloud PC



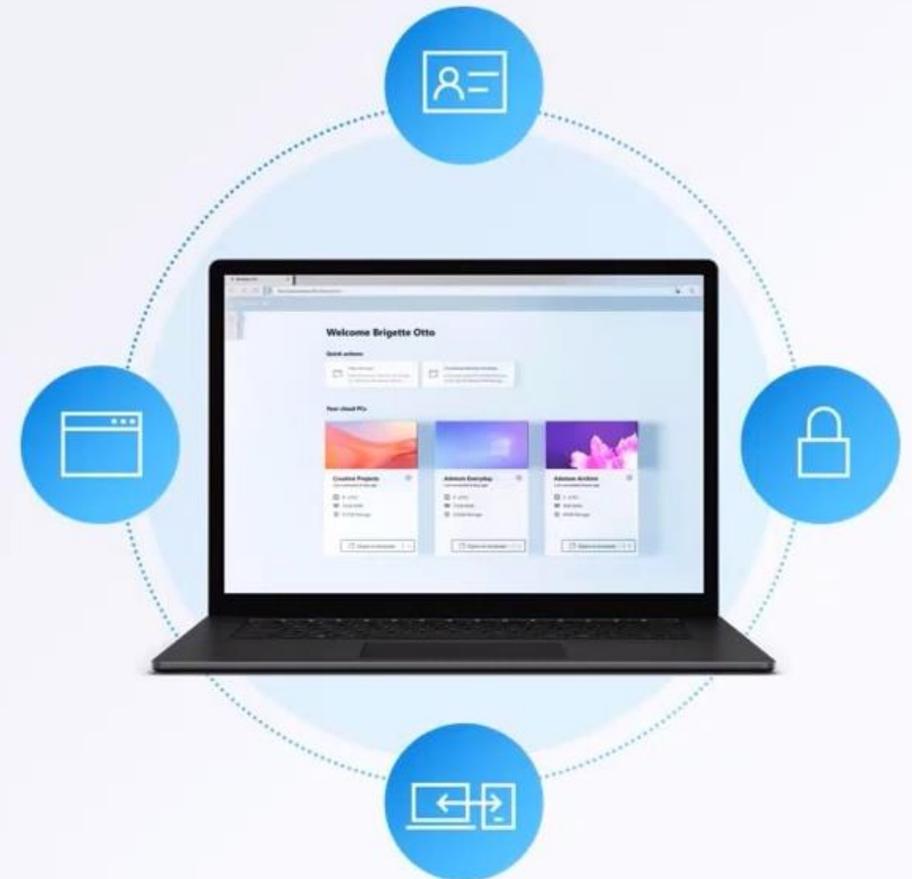
Demo: Deploying Windows 365

- Adding Windows 365 license
- Creating on-premises network connection
- Creating provisioning policy

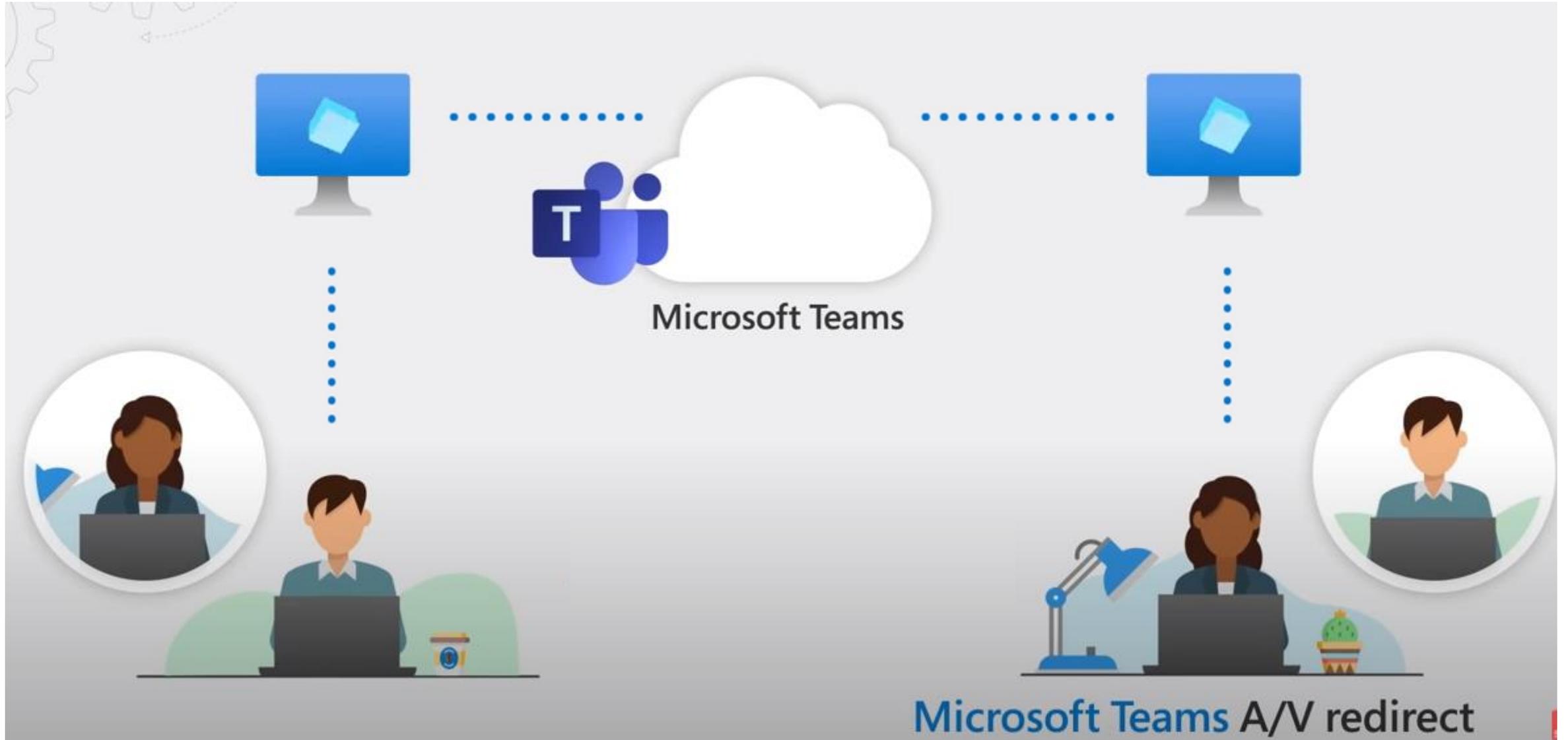
Microsoft 365 optimizations in the gallery images

The following Microsoft 365 optimizations are configured out of the box.

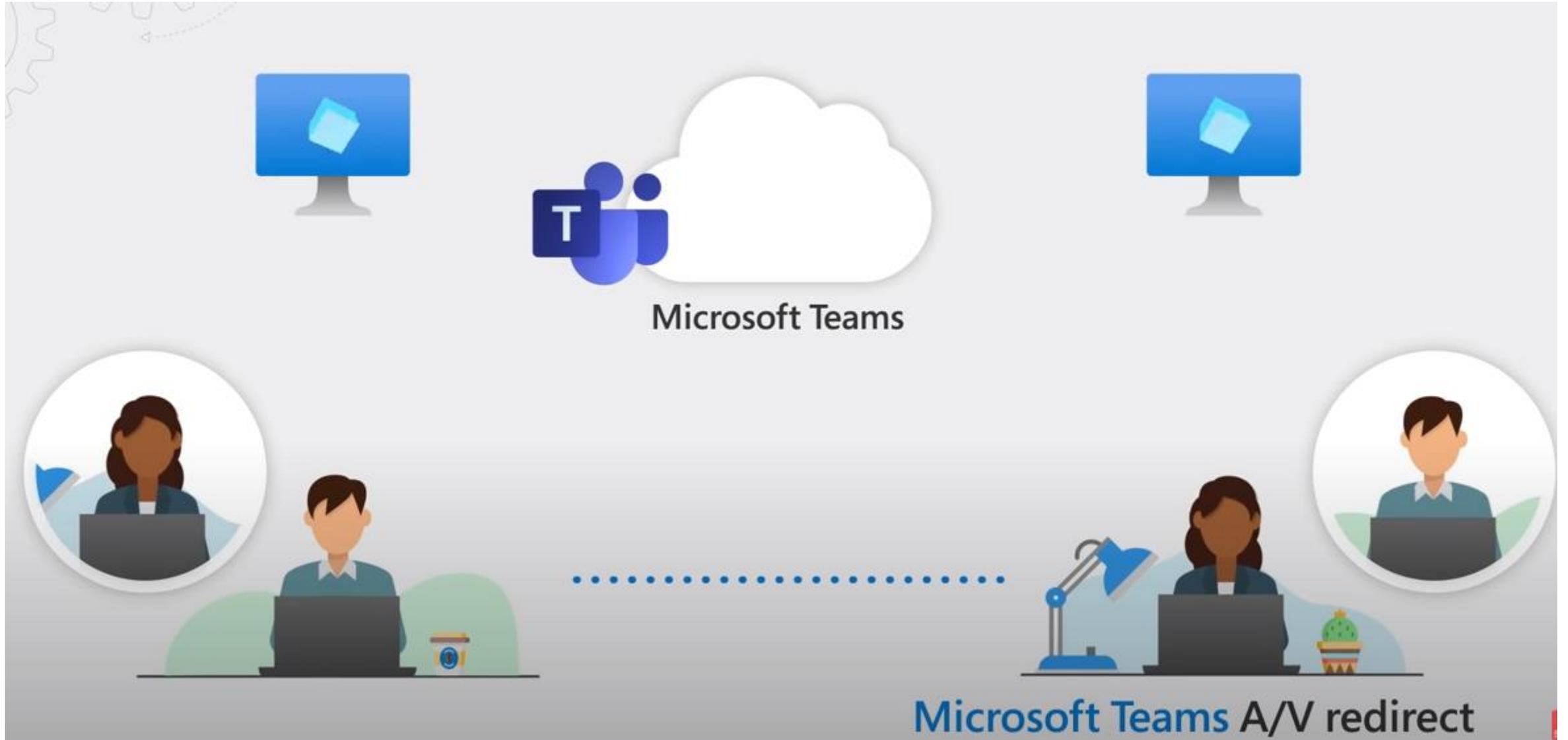
- **Microsoft 365** Apps for Enterprise
- Microsoft **Outlook** first-time configuration settings (auto log on based on Azure AD profile)
- Microsoft **Teams** (Teams Redirection).
- **OneDrive** auto-sign-in and Known Folder Move
- **Edge settings** Sleeping Tabs, Startup boost, and First-Time logon optimizations



Microsoft Teams A/V Redirect



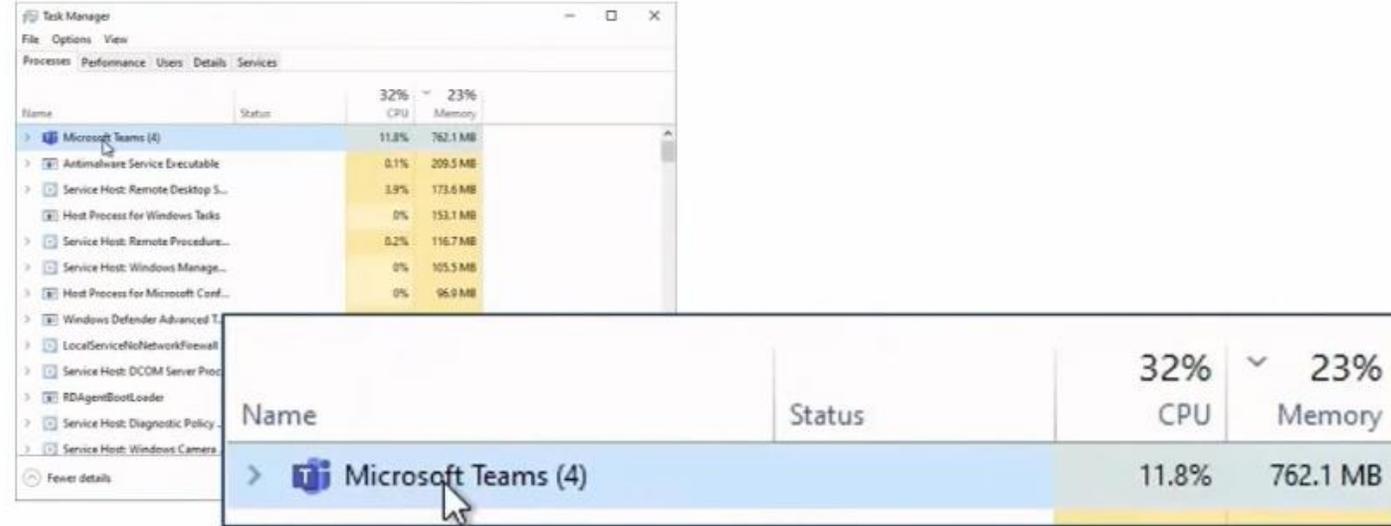
Microsoft Teams A/V Redirect



Microsoft Teams Redirection

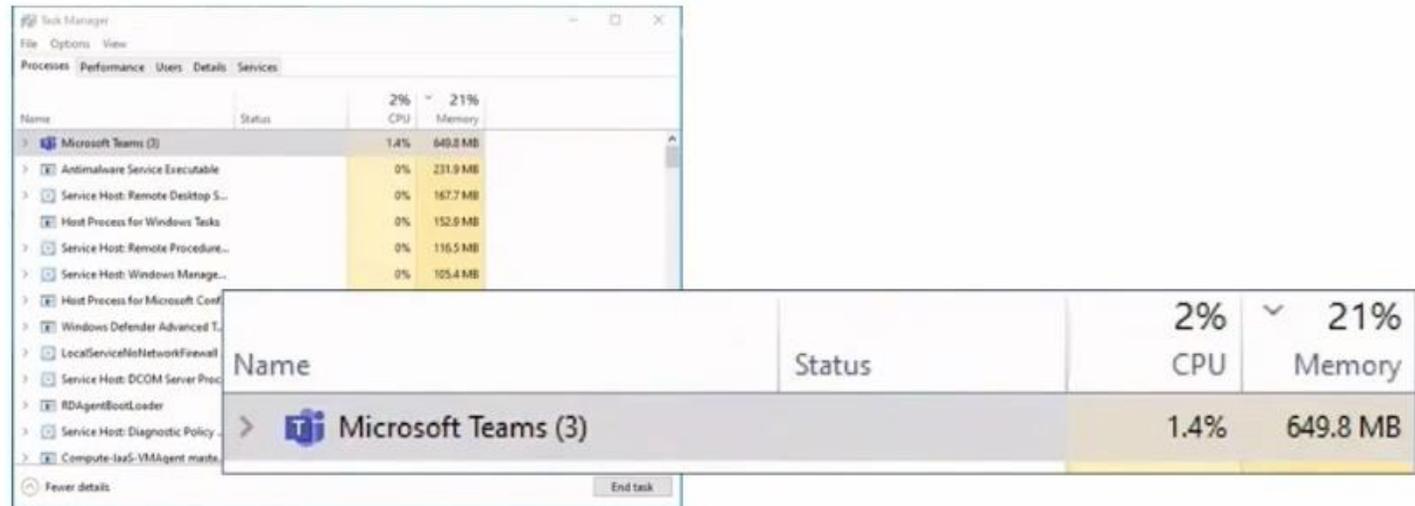
Before Teams Optimizations:

~12% CPU



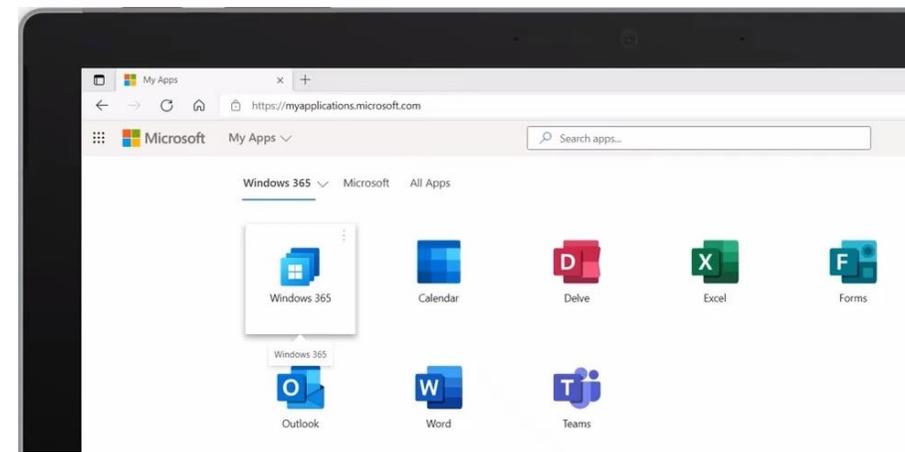
With Teams Optimizations:

~1.5% CPU



Connecting to Windows 365

Remote Desktop Connection cannot be used
HTML5 browser



Remote Desktop app (Windows, Android, iOS, Mac, Linux soon)

	Windows desktop	Store client	Android	iOS/iPadOS	macOS	Web
Keyboard	X	X	X	X	X	X
USB	X					
Multi-monitor	16 monitors					
Screen capture protection	X					
Clipboard	X	X	Text	Text, images	X	text
Local drive/storage	X		X	X	X	

Demo: Connecting to Windows 365

- Using MyApps portal
- Using Remote Desktop app

Windows 365 Endpoint analytics

★ New report in EA

Resource performance

- CPU Spike time %
- RAM Spike time %

★ New report in EA

Remoting connection

- RD Client log-in time
- RD Client log-in failure
- Round Trip Time (RTT)

Include CPC sign-in time

Start-up performance

- Boot time for Windows 365 Endpoint
- Logon duration/time for Windows 365 Endpoint

Include CPC remediation scripts

Proactive Remediations

- Automated actions to remediate common issues with Windows 365

Include CPC devices

Recommended Software

- Windows 10 version
- AAD devices
- Intune devices

Include CPC devices

Application Health

- Cloud PC App usage and crashes

In development for Windows 365 Enterprise

Support for Azure AD joined Cloud PCs

Support for Windows 11

Support for Cloud PC sizes based on virtual graphics processing units (GPU)

Additional Cloud PC sizes (SKUs)

Windows 365 Administrator role

Summary

Is Windows 365 for me?

It depends ...

Windows 365 is not the only Desktop as a Service solution ...

... but it is probably the most simple one!

Windows 365 is cloud service that delivers Cloud PC

Based on Windows 10 (Windows 11 soon)

Windows 365 Business and Windows 365 Enterprise

The same clients as for Azure Virtual Desktop

Windows 365 Evaluation will be available soon (again)

Additional Information

Windows 365 Interactive Demo

<https://aka.ms/W365Demo>

Windows 365 Enterprise documentation

<https://aka.ms/W365Docs>

Windows 365 - Frequently asked questions

<https://www.microsoft.com/en-us/windows-365/faq>

Windows 365 plans and pricing

<https://www.microsoft.com/en-us/windows-365/all-pricing>

<https://www.microsoft.com/en-us/windows-365/enterprise/configure>

Windows 365 vs. Azure Virtual Desktop

<https://getnerdio.com/academy-enterprise/microsoft-windows-365-vs-azure-virtual-desktop-avd-comparing-two-daas-products>



Vprašanja?

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Hvala za udeležbo na predavanju!



nt konferenca
2021