

Windows 365— Cloud PC mastery



Meet the Team





Mehdi Sebbane
Technical Trainer

Stefan Georgiev
Principal Product Manager



Andrej Radinger

Senior Program Manager

Mehdi Sebbane

Technical Trainer at Nerdio

Started as Java Developer, Networks and Systems Engineer

- 15 Years at Microsoft
 - o Identity, Active Directory Premier Field Engineer.
 - Technical Trainer, content development, speaker
- FC Barcelona Fan
- Scuba diving and camping





Stefan Georgiev

Principal Product Manager at Microsoft

Specializing in the remote protocols, performance and user experience for Azure Virtual Desktop (AVD), Remote Desktop Services (RDS), and Windows 365 (W365).





Andrej Radinger Senior Program Manager at Microsoft







Azure Virtual Desktop

Windows 365

Windows 365 Link

RD Multi Path / HEVC / Redirection

How Nerdio Manager enhances Windows 365





Microsoft Azure Virtual Desktop



The Windows Cloud revolution

IT priorities are shifting as we move to a new era for innovation





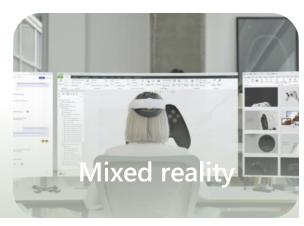












Gartner Magic Quadrant for DaaS

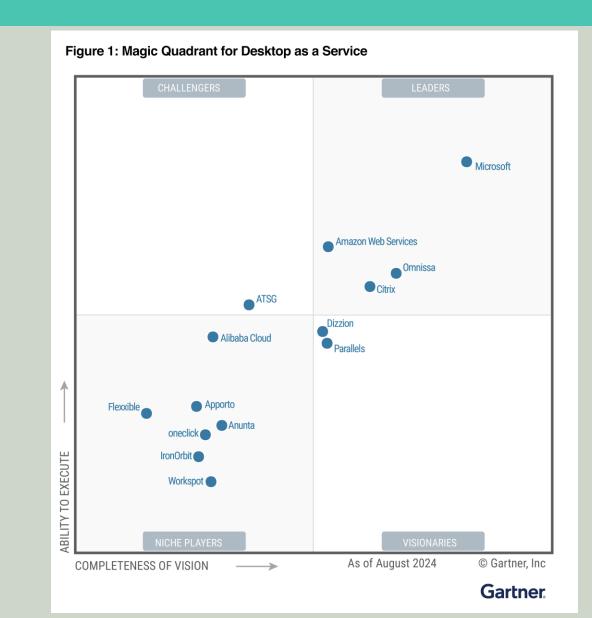
Microsoft has been named a Leader in the 2024 Gartner® Magic Quadrant™ for Desktop as a Service (DaaS) for the second consecutive year.

Windows 365, Azure Virtual Desktop, and Microsoft Dev Box provide a full range of solutions for businesses of all sizes that are scalable, flexible, and secure:

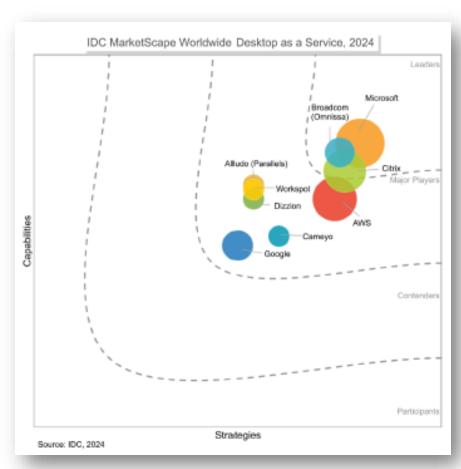
- Seamless integration with Windows, Microsoft Intune, Microsoft 365, and Azure.
- Comprehensive security, adaptable policy frameworks, and reliable compliance measures.
- Costs optimized while ensuring employees easy, personalized access to Windows in the cloud.

► Read the full report

Gartner, Magic Quadrant for Desktop as a Service, Stuart Downes, Craig Fisler, Sunil Kumar, Eri Hariu, Mark Margevicius, Tony Harvey, 16th September 2024. GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally, and MAGIC QUADRANT is a registered trademark of Gartner, Inc. and/or its affiliates and are used herein with permission. All rights reserved. Gartner does not endorse any vendor, product or service depicted in its research publications and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose. This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from Microsoft.



Microsoft positioned as a Leader in 2024 IDC MarketScape for worldwide desktop as a service 2024



IDC MarketScape vendor analysis model is designed to provide an overview of the competitive fitness of ICT suppliers in a given market. The research methodology utilizes a rigorous scoring methodology based on both qualitative and quantitative criteria that results in a single graphical illustration of each vendor's position within a given market. The Capabilities score measures vendor product, go-to-market and business execution in the short-term. The Strategy score measures alignment of vendor strategies with customer requirements in a 3-5-year timeframe. Vendor market share is represented by the size of the circles. Vendor year-over-year growth rate relative to the given market is indicated by a plus, neutral or minus next to the vendor name.

"Customers consistently commented that a W365 instance is functionally identical to an instance running on a physical endpoint"

"It allows for the rapid provisioning of templated desktop designs with regular, stable, and projectable costs."

"Microsoft, through both its position as the developer of Windows and its long history in the market, has a broad and deep ecosystem of both relationships and technology related to virtualization."

"In the last cycle, Microsoft has greatly increased its accessibility and manageability through APIs for access through infrastructure-as-code tools."

Source: IDC MarketScape: Worldwide Desktop as a Service 2024 Vendor Assessment, By: Shannon Kalvar, June 2024, IDC #US51272024















































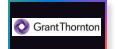










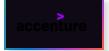












































Sheridan























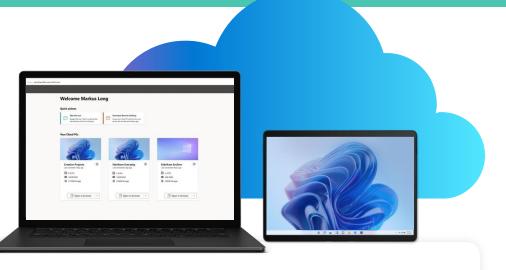




How Windows 365 supports your hybrid workforce needs



Windows 365 provides a personalized, powerful, simple, and secured full Windows 11 or Windows 10 experience





Personalized

All your apps, content, and settings, streamed from the Microsoft Cloud to any device



Powerful

Scalable Cloud PCs bring the Windows 11 or Windows 10 experience to you, on any device



Simple

Provision and deploy
Windows on a Cloud PC
today, right from
Microsoft Intune or at
windows365.microsoft.com



Secured

Enhancing the security benefits of Cloud PCs with new Windows 11 and Windows 10 security features

How Azure Virtual Desktop supports your hybrid workforce needs



Azure Virtual Desktop enables a secured remote desktop experience from anywhere





Flexible

Access Windows 11 and Windows 10 from anywhere



Controlled

Maintain full control over configuration and management



Backed by industryleading features

Get the security and reliability of Microsoft Azure

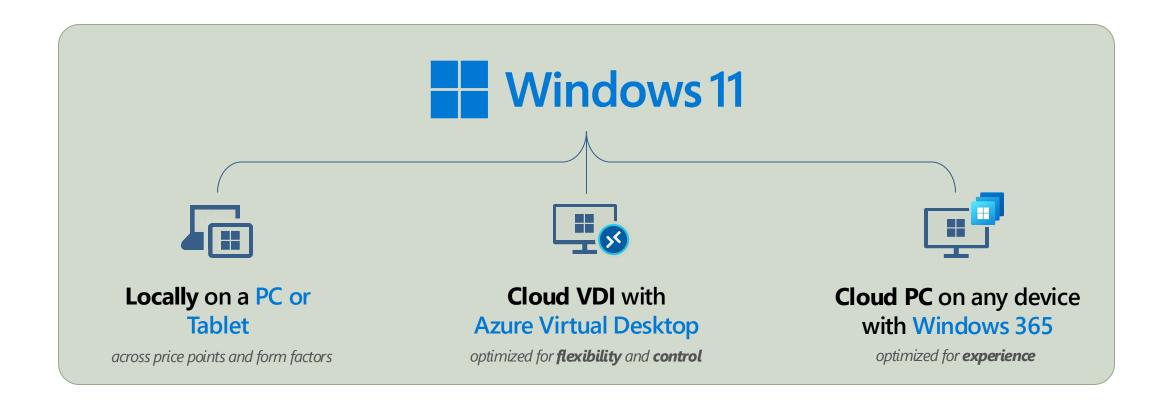


Efficient and transparent

Optimize cost with pooled VMs and multi-sessions; pay for only what you use with metering

Windows for hybrid work

Options for maximum flexibility



Customers are embracing Azure Virtual Desktop and Windows 365



Azure Virtual Desktop

A cloud VDI platform that delivers hosted desktops and apps with maximum flexibility and control



Windows 365

A complete Software as a Service (SaaS) solution that securely streams your personalized Windows desktop, apps, settings, and content from the Microsoft Cloud to any device

	Optimized for flexibility and control	Optimized for simplicity and experience
OS support	Windows 11, Windows 10, single- or multi-session, Windows Server	Windows 11 or Windows 10
Admin	Azure Portal	Microsoft Intune
Service	PaaS: granular controls over configuration and management	SaaS: complete end-to-end Microsoft service
Pricing	Consumption-based pricing	Predictable per user, per month pricing
End User	Rich app and desktop remoting experience	Rich app and desktop remoting experience. Self Service Actions (restart, restore, reset, troubleshoot, etc).
Clients	Windows App, HTML5, Thin Clients	Windows App, HTML5, Thin Clients, Windows 365 Link



Microsoft Confidential

Windows 365 product plans

The following per-user, per-month licenses are currently available:

Example scenarios	Recommended apps
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, Microsoft Edge, line-of-business app(s), Defender support
Bring-Your-Own-PC, work from home, market researchers, government, consultants	Microsoft 365 Apps, Microsoft Teams, Outlook, Excel, Access, PowerPoint, OneDrive, Adobe Reader, Microsoft Edge, line-of-business app(s), Defender support
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, Microsoft Edge, line-of-business app(s), Defender support
Engineers, content creators, design and engineering workstations	Microsoft 365 Apps, Microsoft Teams, Outlook, Access, OneDrive, Adobe Reader, Microsoft Edge, Power BI, Visual Studio Code, line-of-business app(s), Nested Virtualization support; Windows Subsystem for Linux/Android, Hyper-V, Defender support
Engineering, data analysis and visualization, financial services and wealth management	Microsoft 365 Apps, Microsoft Teams, Outlook, Excel, Access, Adobe Reader, Microsoft Edge, Power BI, Tableau, Visual Studio Code, Blackrock Aladdin, Bloomberg, Eclipse, line-of-business apps, Defender support
	Mergers and acquisitions, short-term and seasonal, customer services, Bring-Your-Own-PC, work from home Bring-Your-Own-PC, work from home, market researchers, government, consultants Finance, government, consultants, healthcare services, Bring-Your-Own-PC, work from home Engineers, content creators, design and engineering workstations Engineering, data analysis and visualization,

Microsoft Confidential

Windows 365 licensing requirements

Licensing requirements

- You must have an Intune license to use Intune to manage the devices.
- Windows 365 Enterprise: Users must have licenses for Windows E3, Intune, Microsoft Entra ID P1, and Windows 365 to use their Cloud PC.
- Windows 365 Frontline: Users must
 - Have licenses for Windows E3, Intune, Microsoft Entra ID P1.
 - Be added to the Microsoft Entra security group in the provisioning policy to use their Cloud PC.

Windows Cloud security

What makes Windows Cloud solutions secure

Secured by default

Windows Cloud solutions security protections are enabled by default, require no extra effort for security admins, and are not optional to choose. Cloud PCs and VMs are secure out-of-the-box

Securing your users

Secured identity

Establish secure identities for Windows experience while minimizing risks

Secured access

Access to apps and data based on device management state and user's risk profile

Secured data

Securing customer data by design with session hosts using Microsoft Zero Trust standards

Secured by design

Security is integral to our designs, ensuring each update is rigorously vetted for access control and vulnerabilities.

Secured platform

Secured operations

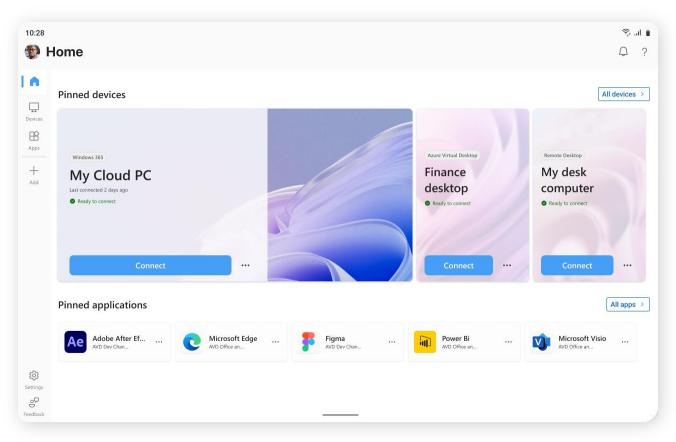
Security controls and monitoring are continuously improved to mitigate current and future threats.

Windows App

Generally available

One client across

- Windows 365
- Azure Virtual Desktop
- Remote Desktop
- Remote Desktop Services
- Microsoft Dev Box





Windows 365





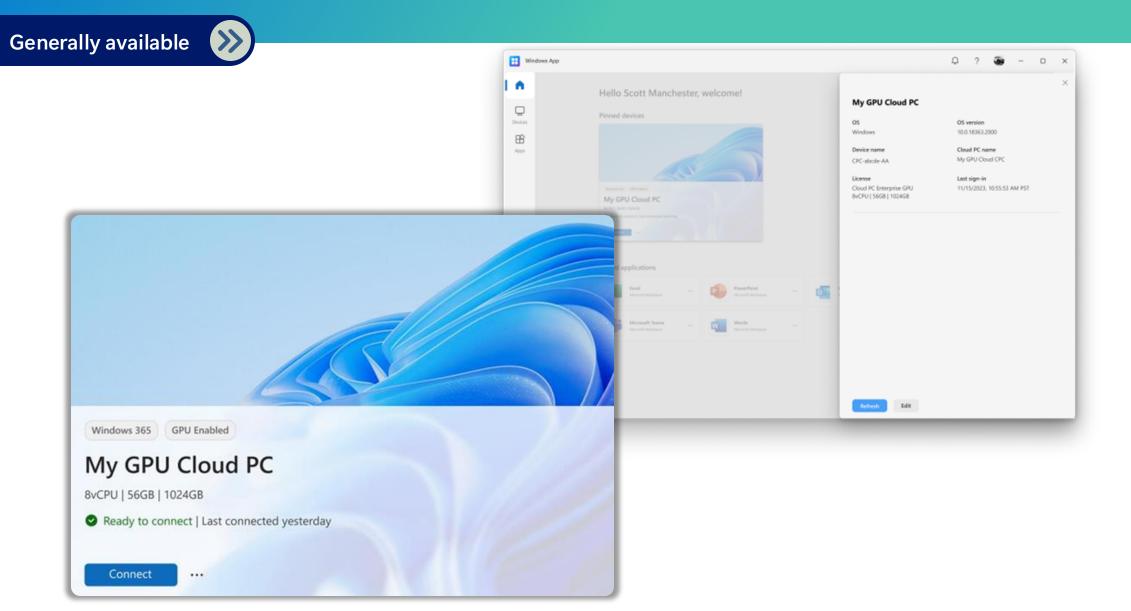
Desktop







Windows 365 GPU

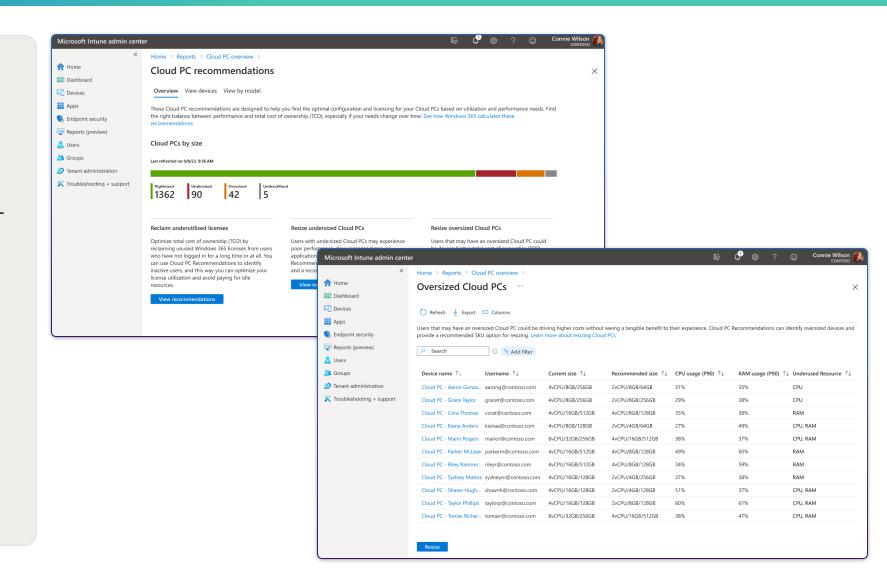


Windows 365 Al Powered Management

Cloud PC Recommender:

- CPC Size Evaluation:
 Performance evaluation of
 CPU and RAM to determine –
 Oversized, Undersized, or
 Right-sized
- CPC Usage Evaluation:

 Identify underutilized Cloud
 PCs, re-assign licenses based on usage
- CPC Location Evaluation: Move CPC based on user experienced latency



Spotlight: Windows 365 Frontline

DEDICATED MODE Personalized Cloud PCs

For employees needing regular and personalized experiences



Dedicated Cloud PC access only during their shift

One Windows 365 Frontline license enables up to three dedicated and personalized Cloud PCs to be used non-concurrently

Personalized, full Windows experience

Deploy and manage in Microsoft Intune

SHARED MODE Designed for task productivity

For employees who need brief access to complete tasks

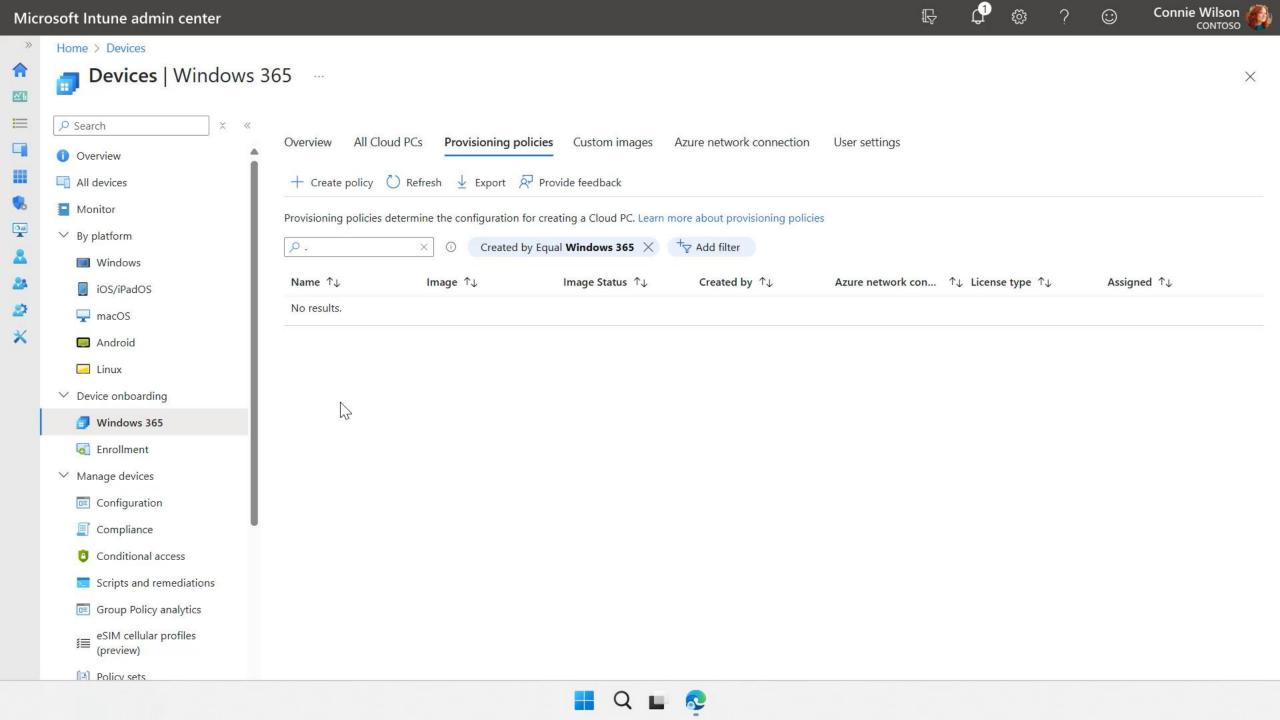


Cloud PC access for productive specialized use

One Windows 365 Frontline license enables a single Cloud PC that can be shared across a group of users non-concurrently (one active session at a time)

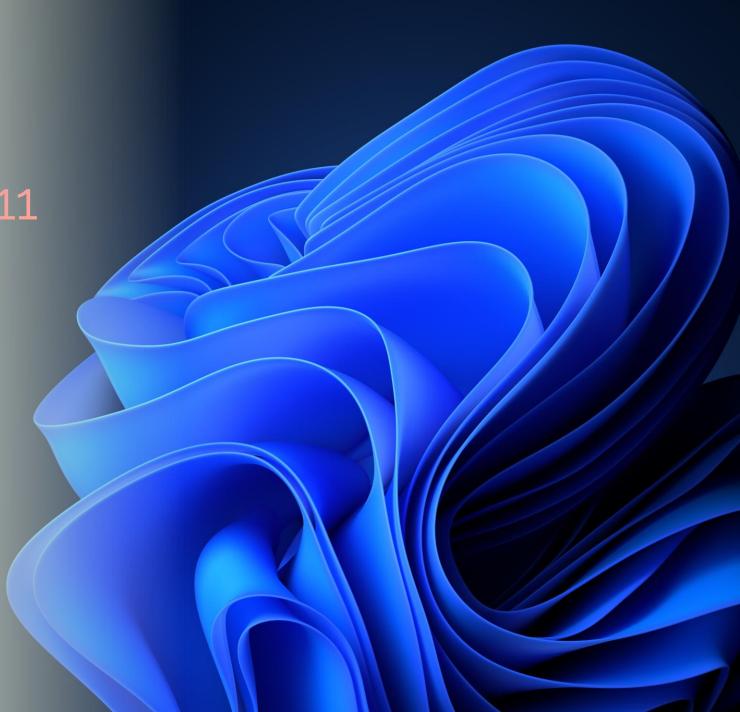
Non-personalized desktop experience that resets between sessions (user profile data removed after sign off)

Deploy and manage in Microsoft Intune



Move to Windows 11 your way

Upgrade your existing PCs
Purchase new Windows 11 PCs
Go to Windows 11 with Windows
365



Paths to move from Windows 10

Recommended

Migrate to Windows 11

It's an upgrade not an update 99.7% Application compatibility Simplified management

2

Leverage

Windows 365 Enterprise

Cloud PCs running Windows 11

Windows 10 ESU for the client endpoint

3

+ Windows 365 Link

Cloud PCs running Windows 11

Windows 365 Link devices as hardware solution



Alternatives

Extended Security Updates (ESU)

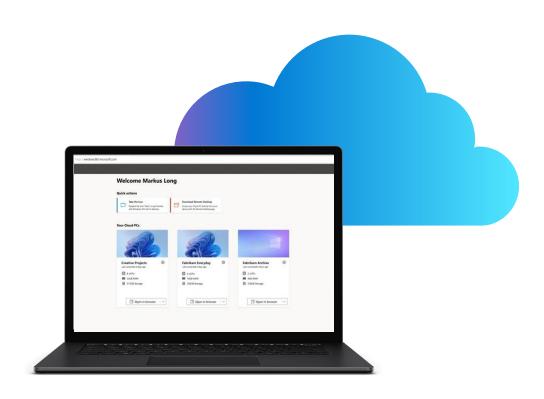
Take advantage of cloud management

Discounted ESU when using cloud management Purchase ESU outright

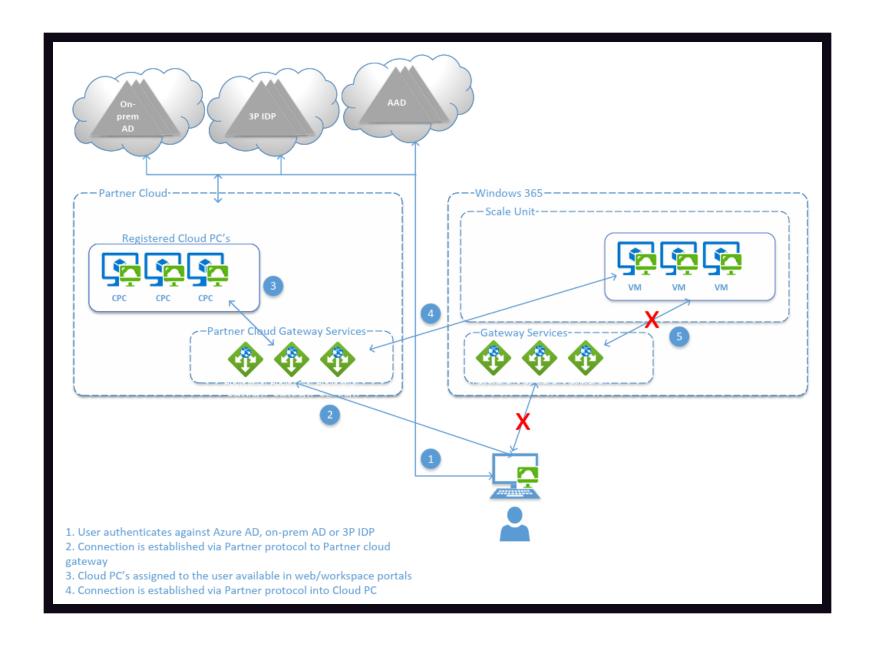
Protect any Windows 10 devices

Partner integrations on Windows 365

- Minimal-click onboarding of Partner Cloud to Windows 365
- Partner protocol enabled automatically for licensed users
- No new gateways, connectors*, infrastructure, delivery groups, etc. required
- Cloud PC's appear native in Partner client apps
- Connect via partner gateway and protocol from the Windows 365 end-user portal
- Automated offboarding when removing the Partner license
- Partners completed integration:
 - Citrix
 - Omnissa
 - HP Anyware



Partner integration connectivity



Windows 365 Link



Introducing the first Cloud PC device

purpose-built by Microsoft to connect securely to Windows 365 in seconds





Security on by default

dTPM 2.0

Virtualization-based security

Hypervisor-protected code integrity

Secure boot

BitLocker

Security baselines on by default





Embraces passwordless

Entra ID users with no admin rights

Single sign-on to Cloud PC

Entra joined device

Intune managed

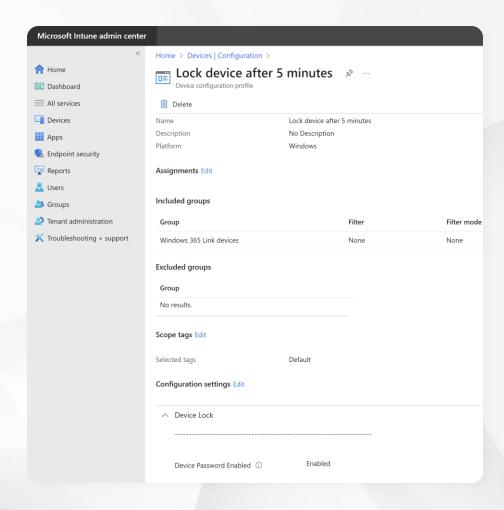
Conditional access policies

Setup



-

Configuration









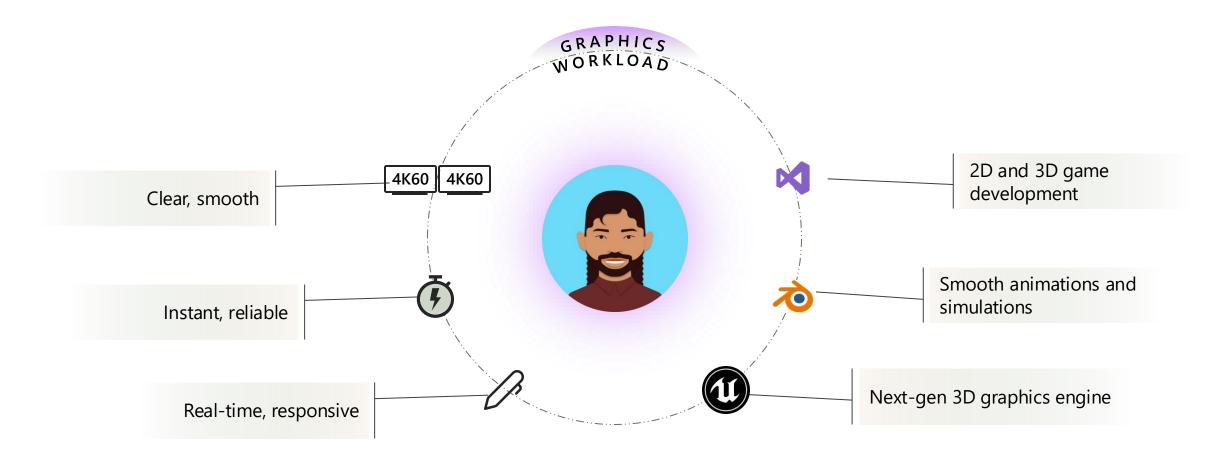


Delivering likelocal

w/ Stefan Georgiev

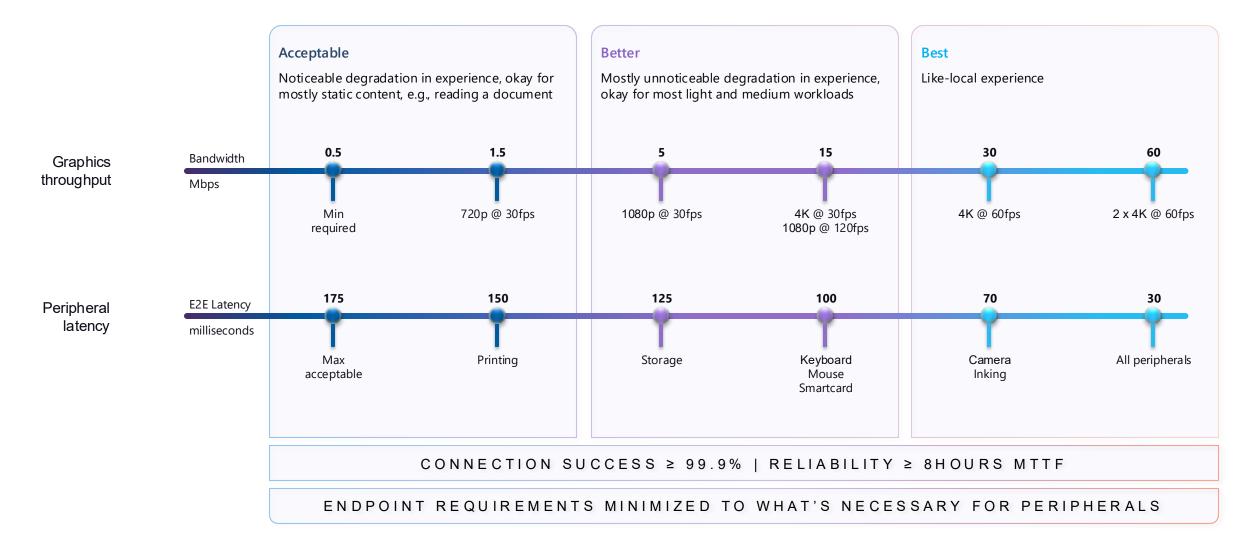


Delivering like-local experiences



Game Developer
Multiple 4k monitors, camera, pen | Visual Studio, Blender, Unreal Engine

Delivering like-local experiences—adapts to user environment



Delivering like-local experiences – always available

In-development Today Noticeable time to connect to Cloud PC Acceptable time to connect to Cloud PC Time > 30 10 to connect Time to connect to an active session seconds W365Switch 4-16 AADJ Policy for US West 2 - ... Last connected 48 minutes ag Last connected 4 weeks ago 00:00:00.00 2 vCPU 8 GB RAM 128 GB Storage [Connect ☑ Connect n 💶 📜 😥 🛅 🚳 🖽 🐗 👊 🕜 ≦ 📨 CONNECTION SUCCESS ≥ 99.9% | RELIABILITY ≥ 8HOURS MTTF

ENDPOINT REQUIREMENTS MINIMIZED TO WHAT'S NECESSARY FOR PERIPHERALS

Innovation at every layer





Windows Cloud

Windows 365 & Azure Virtual Desktop



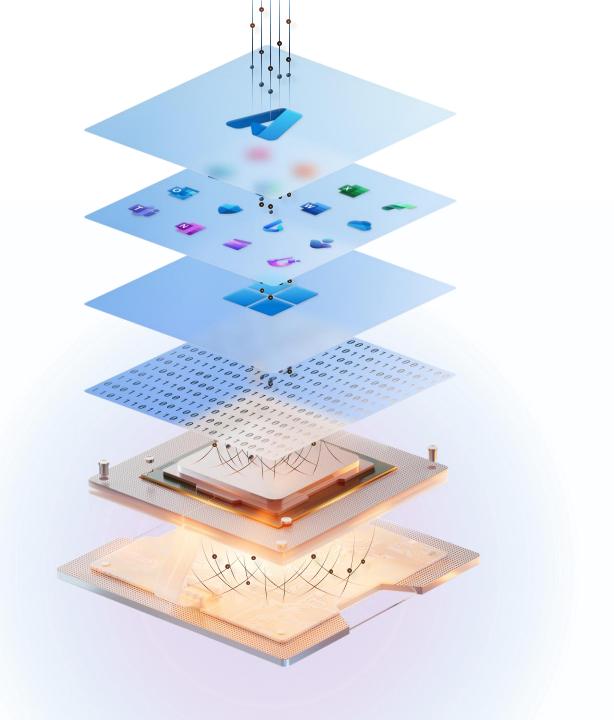
Windows



Systems



Silicon



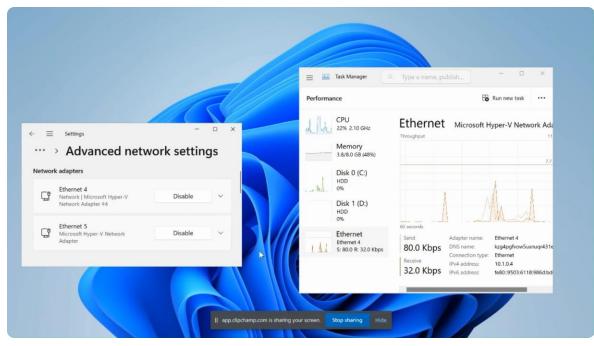
Innovation at every layer—features

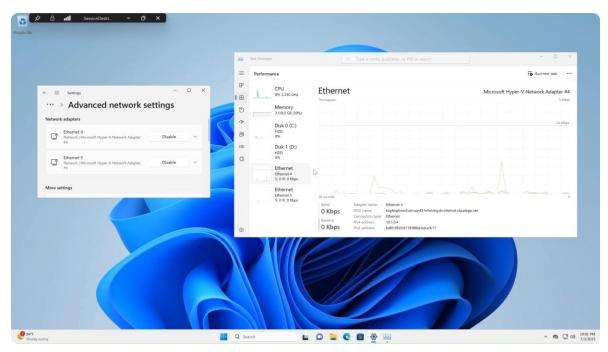
88 Streaming	Shipped recentlyRDP ShortpathTURN	In-developmentRDP MultipathFast connectivityAlways connected
Windows Cloud Windows 365 & Azure Virtual Desktop	 Multimedia redirection Teams optimizations Single sign-on for Entra ID Support for all popular endpoints 	 Driver/folder Enumeration Performance Performance improvements for peripherals
Windows	Passwordless AuthFaster logons	
Systems	• HEVC h/w encode/decode • Graphics Quality (4:4:4, 4:2:0)	
Silicon	• GPU, CPU silicon optimizations	

RD Multipath

Demo

RDP Multipath-Demo Time to recover when network drops





~53 seconds < 1 second



Global TURN Relay Expansion

Enhancing reliability and optimizing W365 and AVD traffic

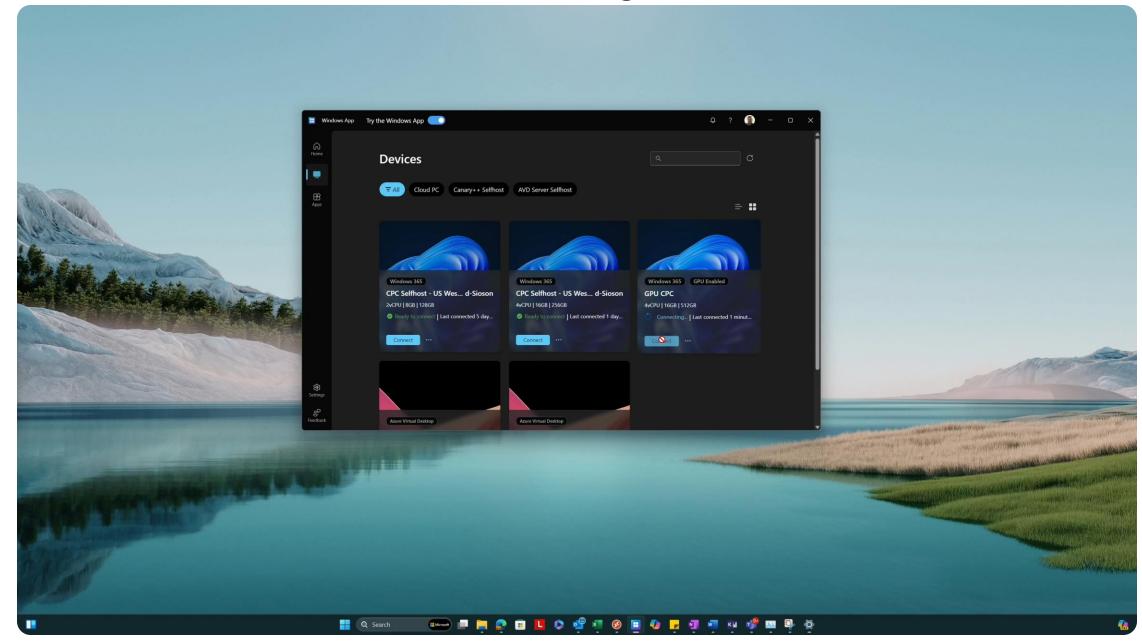




HEVC

Demo

4K60 with HEVC/H.265 encode using GPU h/w-Demo



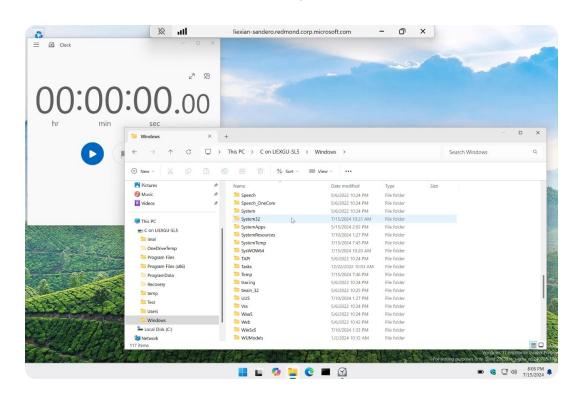
What are other encoders customers are asking for?

Redirection drive performance

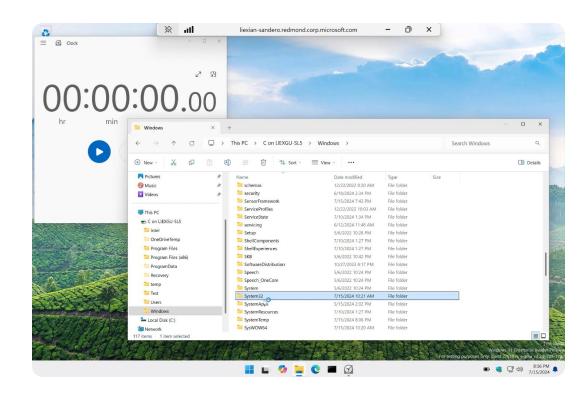
Demo

Redirection Drive Performance - Demo

Previous Experience

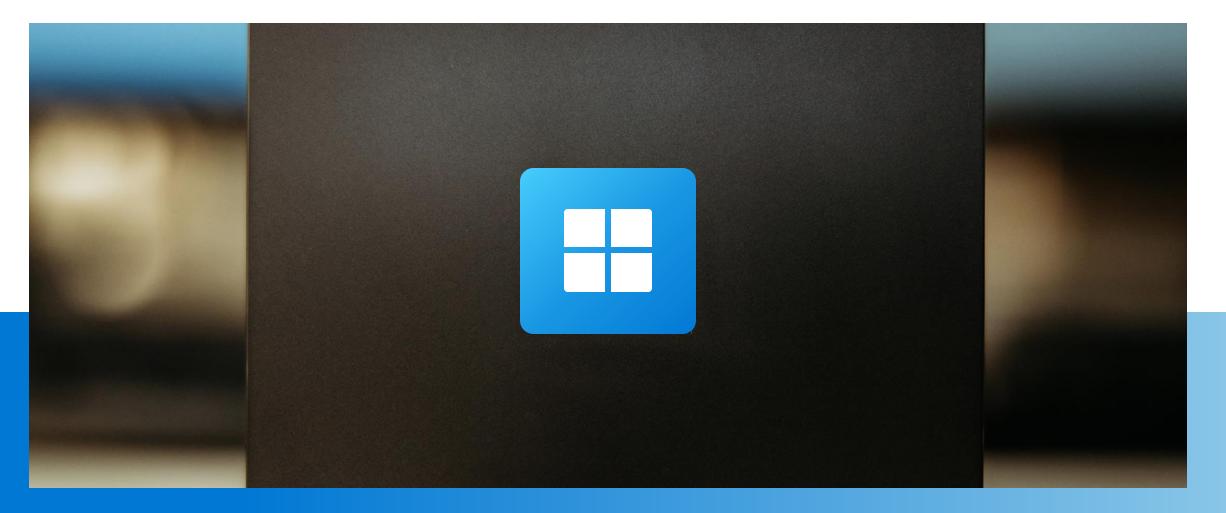


Starting March 2025 (24H2)



Help us prioritize redirection improvements.

Thank you!



The future begins with you.



How Nerdio Manager for Enterprise enhances Windows 365

Streamlining Windows 365 management for IT professionals

Windows 365 day 2 operations



Dynamic app delivery



Unified App catalog



Ongoing policy-driven updates



App testing



Monitoring & troubleshooting



V

Apps

Compliance





Updates

Security



Unified Endpoint Management



Device actions:

Restore, re-provision, restart, resize, etc.



Granular RBAC



Reporting:

CPC usage, app usage, app licensing

The future

Windows 365 sizing, migration, unified management, and optimization platform











Nerdio Unified Endpoint Management



Streamlined management interface

- Overlay that exposes common Intune tasks.
- Simplified management interface (changelog, versions, statuses, rollbacks)
- Surface endpoint details in the Nerdio Portal.



Reduce management overhead

- Increase productivity and avoid additional Intune administration.
- Focus on common management tasks.
- Streamline common tasks with fewer clicks.
- View endpoint status with device compliance and performance reports.



Increase security

- Build-in and custom, granular RBAC roles.
- Delegate common tasks with just-enough access to common endpoint settings.

W365 + Nerdio

Extend your management of Windows 365 and Intune with Nerdio:



Manage Windows network connections, provisioning policies, and 365 images.



Create, modify, back up, and track changes to Intune Policies over time.



Monitor device performance and compliance with advanced reporting.



Create granular RBAC roles for endpoint management.



Windows 365

DEMO

- Assign user a W365 License
- Enable UEM
- Portal navigation







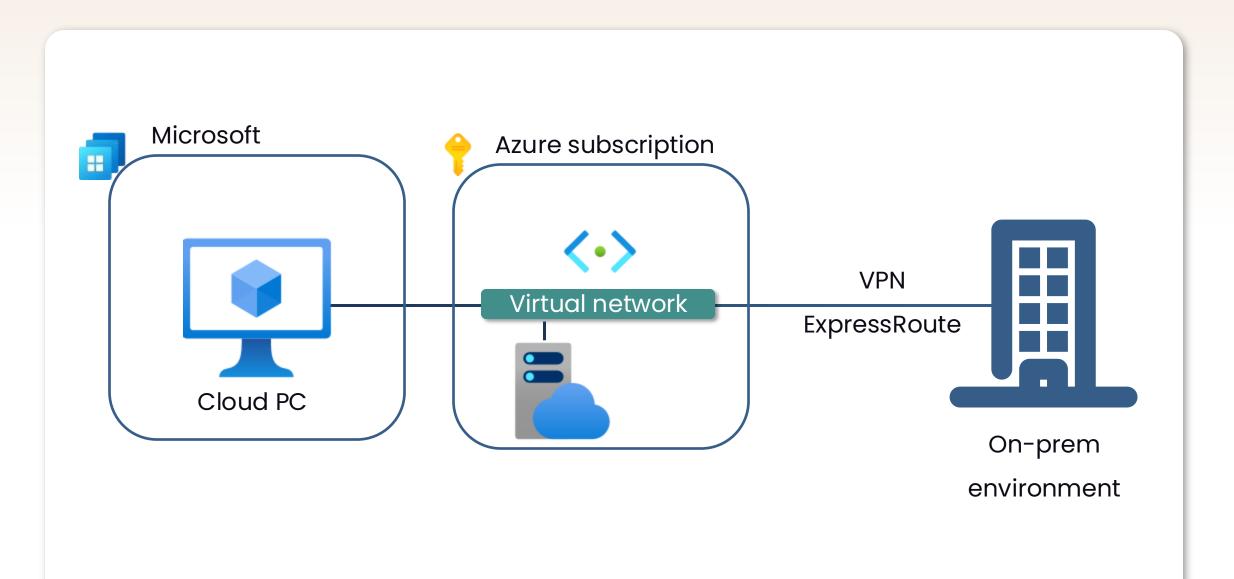
Network connections

A Windows 365 network connection allows Cloud PCs to connect to network-based resources.

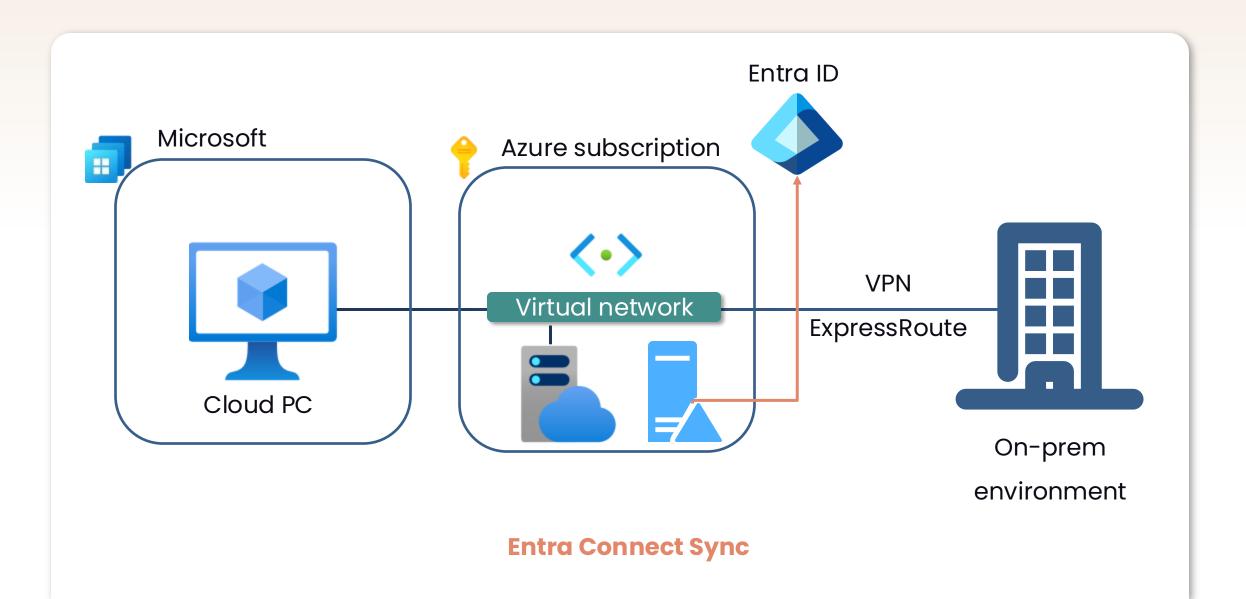
There are two types of network connections:

- Microsoft Entra join.
- Hybrid Microsoft Entra join
 - Requires connectivity to an Active Directory
 Domain Services (AD DS) domain

Private network connectivity



Entra Hybrid join networking



Provisioning policies

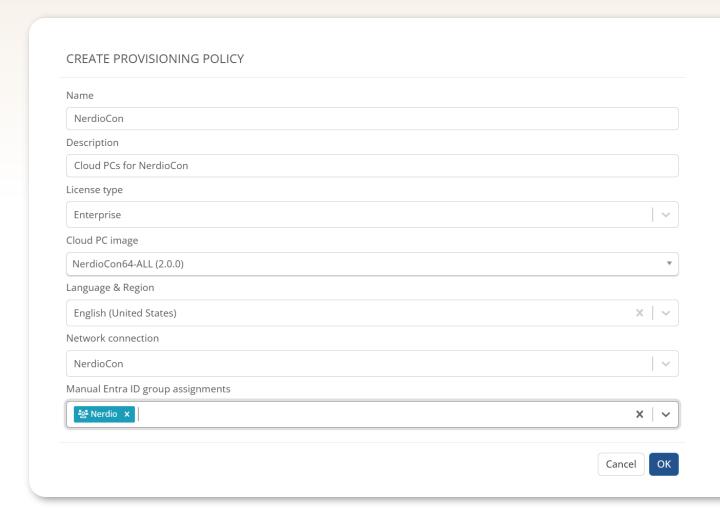
A provisioning policy in Windows 365 is the configuration that defines how Cloud PCs are created and assigned to users.

- Simplified deployment
- Consistency
- Flexibility
- Scalability



Provisioning policies

- License type
- Cloud PC image
- Network connection
- User group assignments



Provisioning policies

DEMO

- Create network connection
- Create provisioning policy
- Confirm Cloud PC status



Nerdio Windows 365 management



Private virtual network

- Connect Cloud PCs to private Azure virtual network (VNet).
- Private connectivity to Azure resources.
- Connectivity to on-premises resources with VPN or ExpressRoute.
- Use company firewall for content filtering, adhere to organizational internet policies.

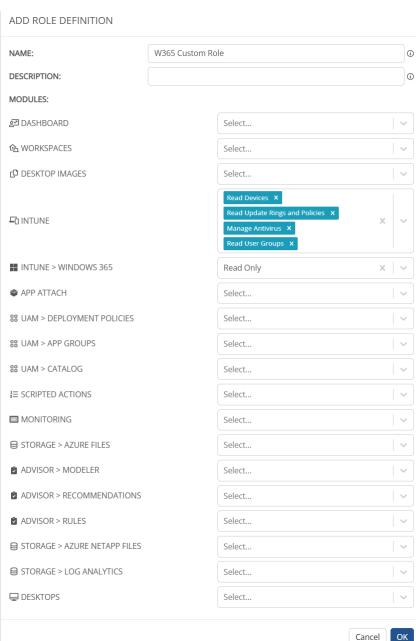
Provisioning policies

- Create and manage W365 provisioning policies from
- Nerdio Manager for Enterprise.

Custom images

- Pre-install applications on a custom image.
- Apply customizations to the image.
- Use Nerdio image management and automation to keep images up-to-date.

Custom RBAC roles for Intune management



Custom images

DEMO

- Create cloud image
- Customize the image
- Update the Cloud PC





Nerdio Windows 365 management



Policy management

- · Create and edit.
- Backup and restore.
- Assign.

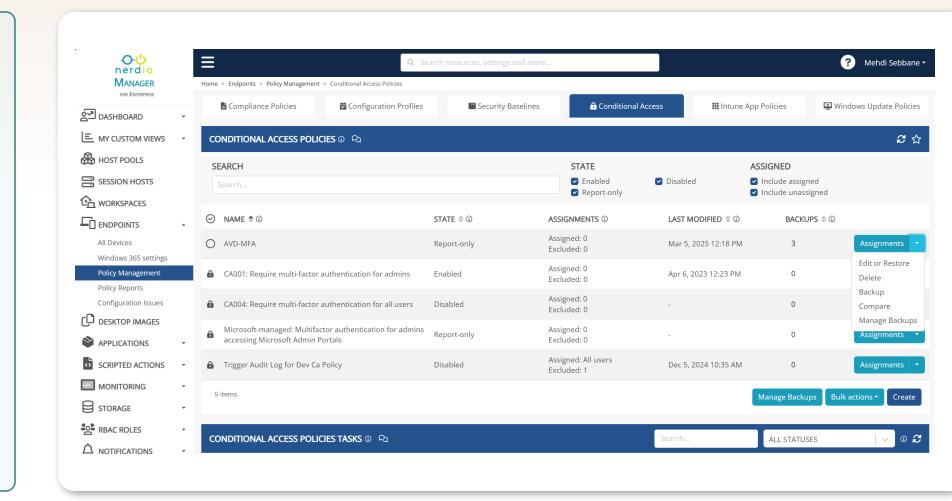
Even more

- Compare versions.
- Automatic backup.

Policy backup & recovery

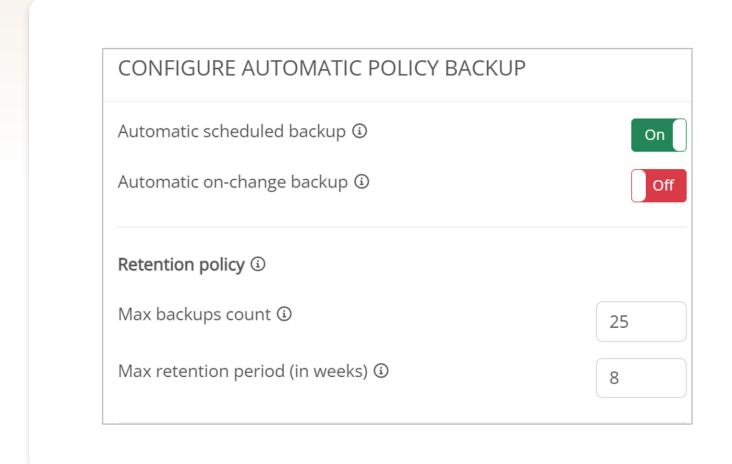


- Policy change tracking & logging
- Policy backup
- PolicyRecovery
- Policy change comparisons



Automatic policy backup

- Scheduled backup every 3 hours for policies created in both Nerdio and Intune natively.
- Backup on any edit or change made via the Nerdio portal.



Policy comparison

- ✓ Compare policy changes across versions
- √ Side-by-side view

```
COMPARE POLICY BACKUPS - AVD-MFA
                               Backup version: 3
                                                                                                                              Backup version: 1
           "@odata.context": "https://graph.microsoft.com/beta/$metadata#identity/conditiona
                                                                                                    "@odata.context": "https://graph.microsoft.com/beta/$metadata#identity/conditionalA
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                                                                                              22
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```

Policies management

DEMO

- Review policies
- Changes, backup & restore
- Version Comparision
- Assignment



Quiz time!

- Scan the QR code to the right or open the short link in a browser.
- Complete the exam.
- Once you've passed the exam, bring a screenshot
 of your completed score to the registration desk
 to claim your certificate.

Good luck!

https://nerdio.co/Nerdio_PreCon_W365

