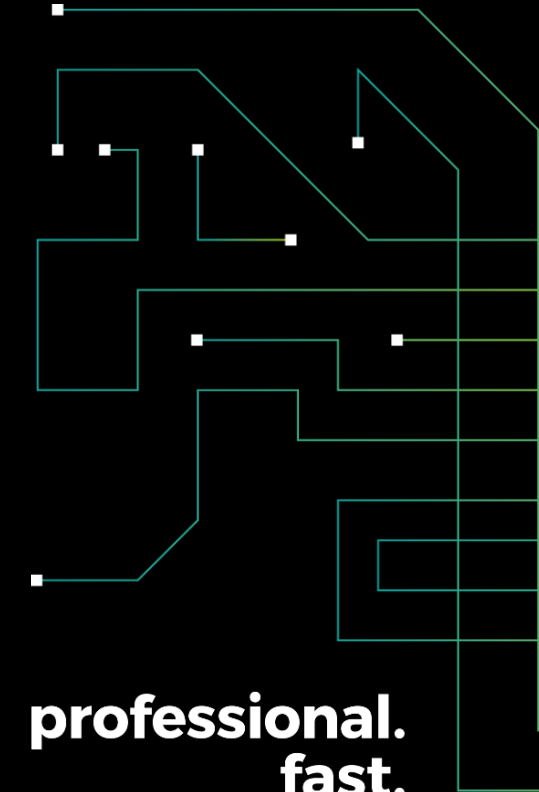


# WINDOWS IN THE CLOUD



Daniel Fraubaum



**professional.**  
**fast.**  
**secure.**



# MICRO SOFT

"A computer on every desk  
and in every home."

# 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 here](#)

Gartner, Magic Quadrant for Desktop as a Service, Stuart Downes, Craig Fislser, Sunil Kumar, Eri Hariu, Mark Margevicius, Tony Harvey, 5 September 16, 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.

Figure 1: Magic Quadrant for Desktop as a Service



# Modern Endpoint Strategy

# Windows for hybrid work

Options for maximum flexibility



## Windows 11



**Locally on a PC or  
Tablet**

*across price points and form factors*



**Cloud VDI with  
Azure Virtual Desktop**

*optimized for flexibility and control*



**Cloud PC on any device  
with Windows 365**

*optimized for simplicity and experience*

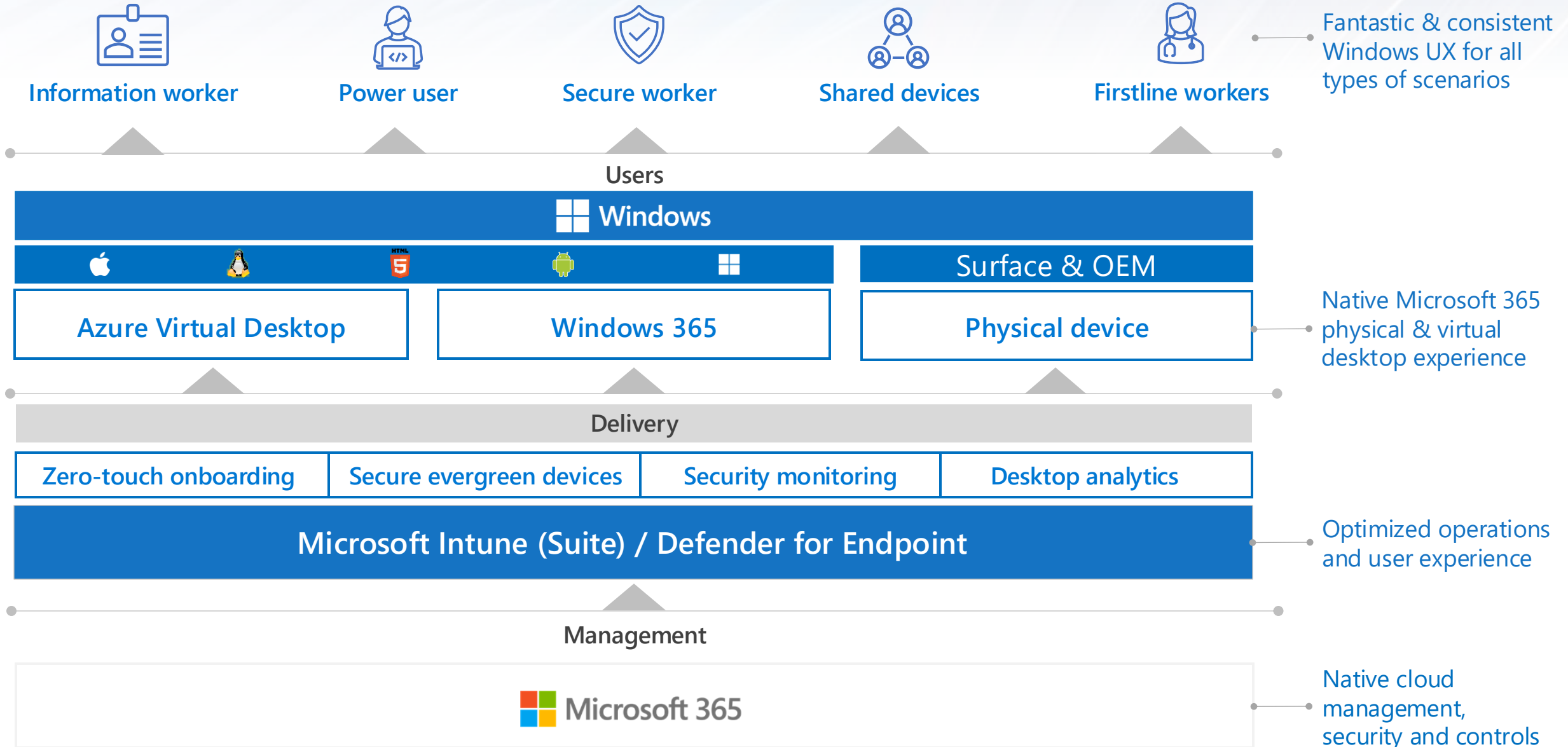


**Dev Desktops with  
Microsoft Dev Box**

*Self-serve and ready to code*

# Modern Endpoint Strategy

How to provide a Microsoft 365 managed desktop





# Cloud VDI and Cloud PC – Different Responsibilities

	RDS, Citrix, VMware On-Premises	RDS, Citrix, VMware (Virtualized on Azure IaaS)	AVD Platform as a Service (PaaS) Cloud VDI	Windows 365 Software as Service (SaaS) Desktop-as-a-Service (DaaS+) Cloud PC
Identity	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER
End User Devices (Mobile and PCs)	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER
Application Security	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	MICROSOFT
Operating systems	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	MICROSOFT
Deployment Configuration	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	MICROSOFT
Network Controls	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	MICROSOFT
Virtualization Control Plane	CUSTOMER / PROVIDER	CUSTOMER / PROVIDER	MICROSOFT	MICROSOFT
Physical hosts	CUSTOMER / PROVIDER	MICROSOFT	MICROSOFT	MICROSOFT
Physical network	CUSTOMER / PROVIDER	MICROSOFT	MICROSOFT	MICROSOFT
Physical datacenter	CUSTOMER / PROVIDER	MICROSOFT	MICROSOFT	MICROSOFT

CUSTOMER / PROVIDER

MICROSOFT

# Customers are embracing Azure Virtual Desktop and Windows 365



## Azure Virtual Desktop

A cloud virtual desktop infrastructure (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

	Optimized for flexibility and control	Optimized for simplicity and experience
<b>OS support</b>	Windows 11, Windows 10, single- or multi-session, Windows Server	Windows 11 or Windows 10
<b>Admin</b>	<ul style="list-style-type: none"> <li>Azure Portal</li> <li>Omnissa or Citrix management panel</li> </ul>	<ul style="list-style-type: none"> <li>Microsoft Intune (Enterprise)</li> <li>Web self-service (Business)</li> </ul>
<b>Service</b>	PaaS: Granular controls over configuration and management	SaaS: Complete end-to-end Microsoft service
<b>Pricing</b>	Consumption-based pricing	Predictable per-user, per-month pricing
<b>Scale</b>	Unlimited based on consumption	Unlimited based on subscription
<b>End-user</b>	Single or multi-user, pooled, remote app	Full Windows like-local experience









# Windows in the cloud unlocks key flexible work scenarios



## Data security

Improve regulatory compliance and IP protection via data centralization and a reduced threat surface.



## Disaster recovery

Help ensure continuity and access for your workforce and company data, even in the most challenging circumstances.



## BYOPC programs

Enable secure Cloud PCs, even on personal devices.



## Hybrid work and travel

Provide flexibility to access resources securely and work from anywhere.



## Short-term workers

Simplify and accelerate the onboarding and offboarding process for elastic workforces.



## High-performance computing

Cloud-scale compute and storage to support specialized workloads such as design and manufacturing.



## Limited or shared physical device

Give frontline and shift workers affordable Cloud PCs without the hassles of sharing physical PC resources.



## Mergers and acquisitions

Provide seamless transitions and access for growing businesses.

# Windows 365 Enterprise: Versatile options to meet your needs

## Access from a variety of devices and operating systems

### Form factor

Desktop, laptop, tablet, and phone

### Platform

Windows, Mac, iOS, and Android

## Provision with your choice of Windows

Windows11

Windows10

## Choose from a range of compute and storage configurations, each offered at a predictable monthly per-user price.



### GPU

Standard <sup>1</sup>

Super <sup>2</sup>

Max <sup>3</sup>



### 16vCPU

64GB/512GB

64GB/1TB

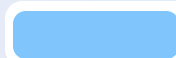


### 8vCPU

32GB/128GB

32GB/256GB

32GB/512GB

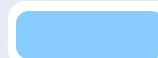


### 4vCPU

16GB/128GB

16GB/256GB

16GB/512GB



### 2vCPU

4GB/64GB

4GB/128GB

4GB/256GB

8GB/128GB

8GB/256GB



<sup>1</sup> Minimum specifications for primary drive: 4vCPU/16GB/8GB vRAM/512 GB primary storage/176GB temporary storage

<sup>2</sup> Minimum specifications for primary drive: 8vCPU/56GB/12GB vRAM/1TB primary storage /352 GB temporary storage

<sup>3</sup> Minimum Specifications for primary drive: 16vCPU/110GB/16GB vRAM/1TB primary storage/352 GB temporary storage

# Windows 365 GPU-enabled Cloud PCs provide a comprehensive solution for graphics-intensive fields



## Graphic design

Enhance graphic design with faster, more efficient rendering and real-time feedback, outperforming traditional software rendering.



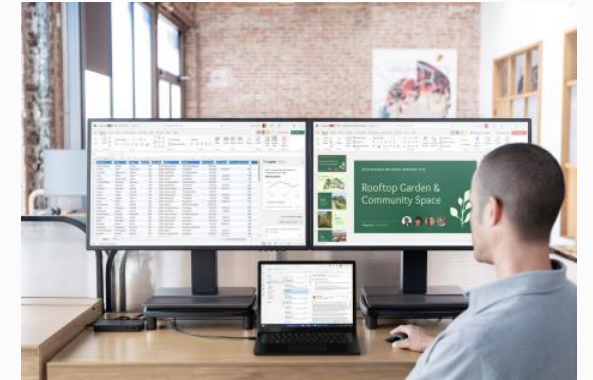
## 3D modeling

Provide real-time scene rendering, shading, texture mapping, and rapid animation rendering, enhancing both efficiency and realism in the creative process.



## Image and video rendering

Elevate image and video editing with real-time high-resolution playback, instant adjustments, a streamlined workflow, and full compatibility with editing software.

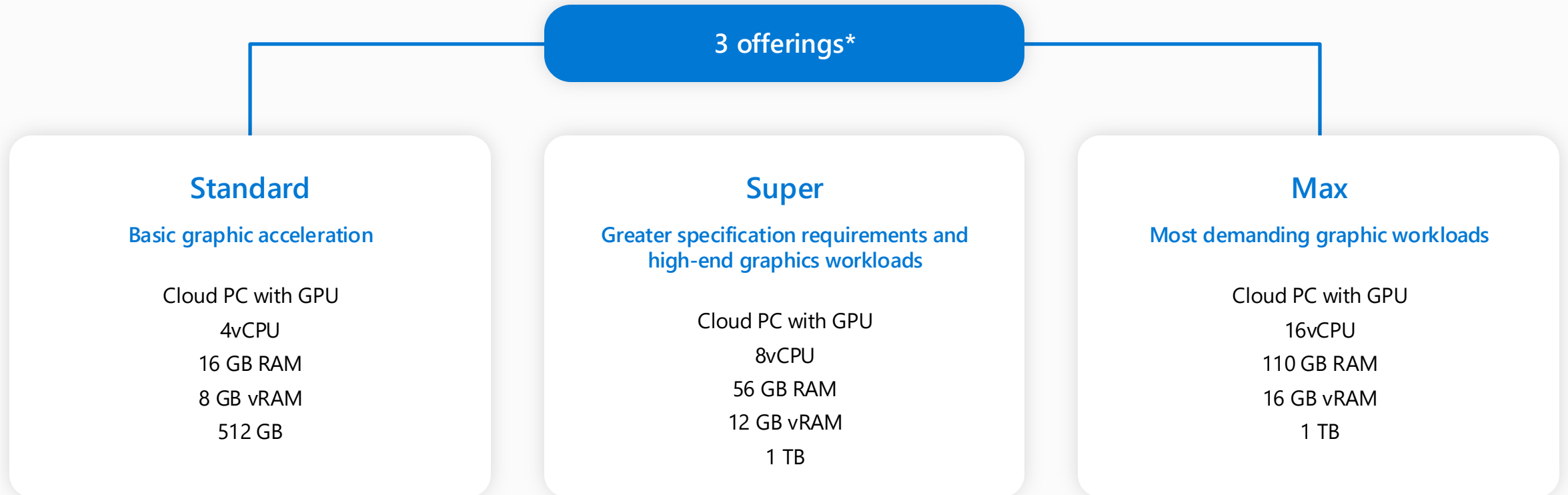


## Data processing and visualization

Optimize parallel processing, reduce computation time, and create interactive visual representations of large datasets.

# Windows 365 GPU-enabled Cloud PC SKU offerings

Choosing the right GPU-enabled Cloud PC for you is made easy with three available offerings. Whether you need basic graphic acceleration or a fully dedicated GPU, Windows 365 has you covered.



\*Your Cloud PC will meet or exceed the license-specified minimum based on hardware availability in the provisioned region

# USE CASE GPU SKU

## ENERGIE UNTERNEHMEN

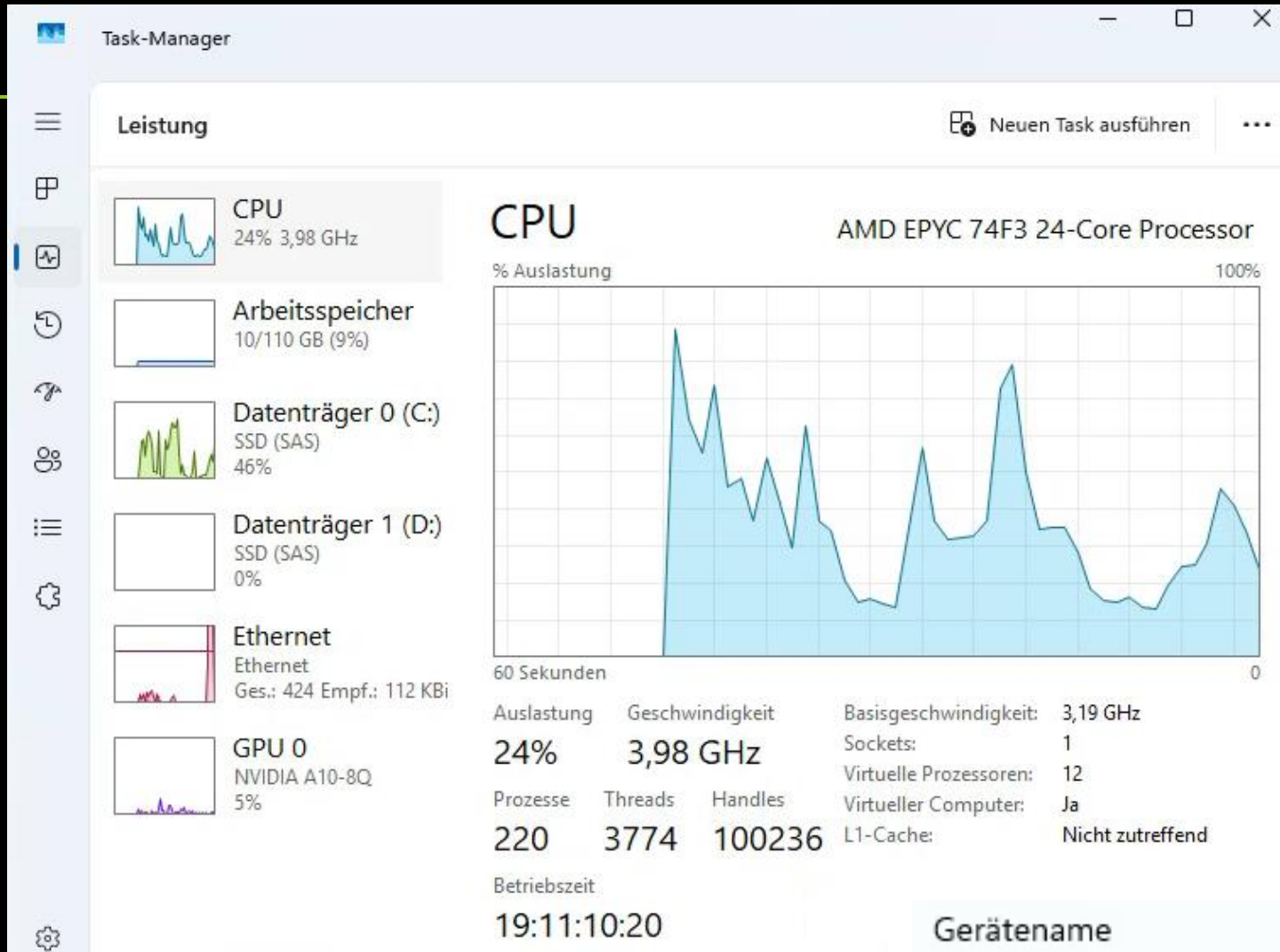
- Kraftwerksplaner
  - Leitungsplaner
- => CAD intensive Anwendungen
- Windows 365 Enterprise GPU Standard bestellt, bekommen eine mit 12vCPUs, 110GB RAM und 8 GB vRAM

GPU offering	Minimum specs	Powered by	Intended for
Windows 365 Enterprise GPU Standard	4 vCPU, 16-GB RAM, 8-GB vRAM, 512 GB (with 176-GB temporary storage)	NVIDIA and AMD	Applications that benefit from basic graphic acceleration on one 3840x2160 display or up to two 1920x1080p displays.
Windows 365 Enterprise GPU Super	8 vCPU, 56-GB RAM, 12-GB vRAM, 1 TB (with 352-GB temporary storage)	NVIDIA	Applications with greater specification requirements and high-end graphics workloads on up to four 3840x2160 displays.
Windows 365 Enterprise GPU Max	16 vCPU, 110-GB RAM, 16-GB vRAM, 1 TB (with 352-GB temporary storage)	NVIDIA	Graphics intensive workloads that demand high performance and have strict latency requirements.





# USE CASE GPU SKU

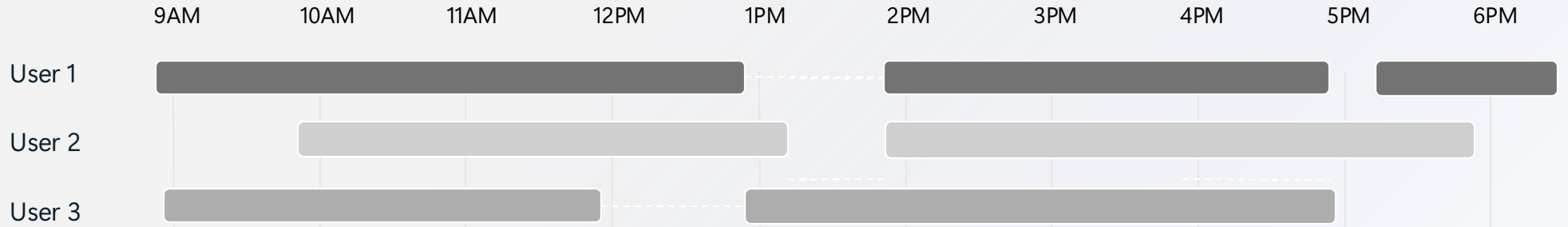


Gerätename	W365-Seke-Z0GN6	
Prozessor	AMD EPYC 74F3 24-Core Processor	3.19 GHz
Installierter RAM	110 GB	

# Meeting Cloud PC demands with Windows 365 Frontline

## Full time

Windows 365 Enterprise



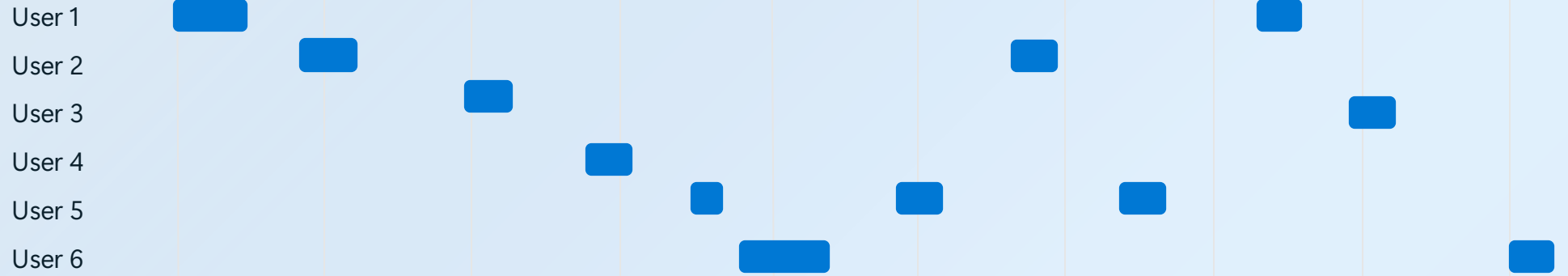
## Part time

Windows 365 Frontline  
in dedicated mode



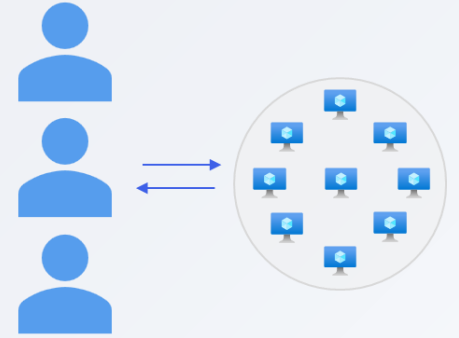
## Intermittent

Windows 365 Frontline  
in shared mode



# There's a Windows 365 edition that makes sense for you

Expanding the Windows 365 portfolio is about adding choices that fit your organization and workers.



## Windows 365 Enterprise

For employees who need anytime access to their Cloud PC



Dedicated Cloud PC access 24/7



Each employee requires a license



Personalized, full Windows experience



Deploy and manage in Microsoft Intune

## Windows 365 Frontline - Dedicated

Designed for employees who need consistent and prolonged access



Dedicated Cloud PC access only during their shift



Provision any 3 employees with a single license



Personalized, full Windows experience



Deploy and manage in Microsoft Intune

## Windows 365 Frontline - Shared

Designed for employees who need brief access to complete tasks



Cloud PC access **ready for productive specialized use**



Enable a group of employee's access to a single shared Cloud PC in seconds



Shared, non-personal experience with data removed after logoff

\*1 active session at a time



Deploy and manage in Microsoft Intune

# Technical & License Considerations - Windows 365 Enterprise



## License

Users w/ Windows Pro endpoints: W10/11 E3 + EMS<sup>1</sup> E3 or M365 F3/E3/E5/BP  
Users w/ Non-Windows Pro endpoints: Win VDA E3 + EMS<sup>1</sup> E3 or M365 F3/E3/F5/BP

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



## Azure Subscription

At least (1) **Azure** subscription needed for an Azure Virtual Network **if** required (Custom Installation or HAADJ)



## Network

Azure vNET with Networking line of sight to Domain Controller (Express Route **or** Site-to-Site) **if** HAADJ



## Machine Identity/Object

Hybrid Azure AD Join (HAADJ)  
**Or** Azure AD Join (AADJ)



## User Identity

Hybrid Identities (AD + AAD)  
**Or** Cloud Identities (AAD)



## Image

Microsoft-managed up-to-date & optimized Gallery Images (Recommended)  
**Or** BYO-Installation Media in Azure (Win10 Ent 19H1+)



## Management

Microsoft Intune  
(supports Configuration Manager co-management)



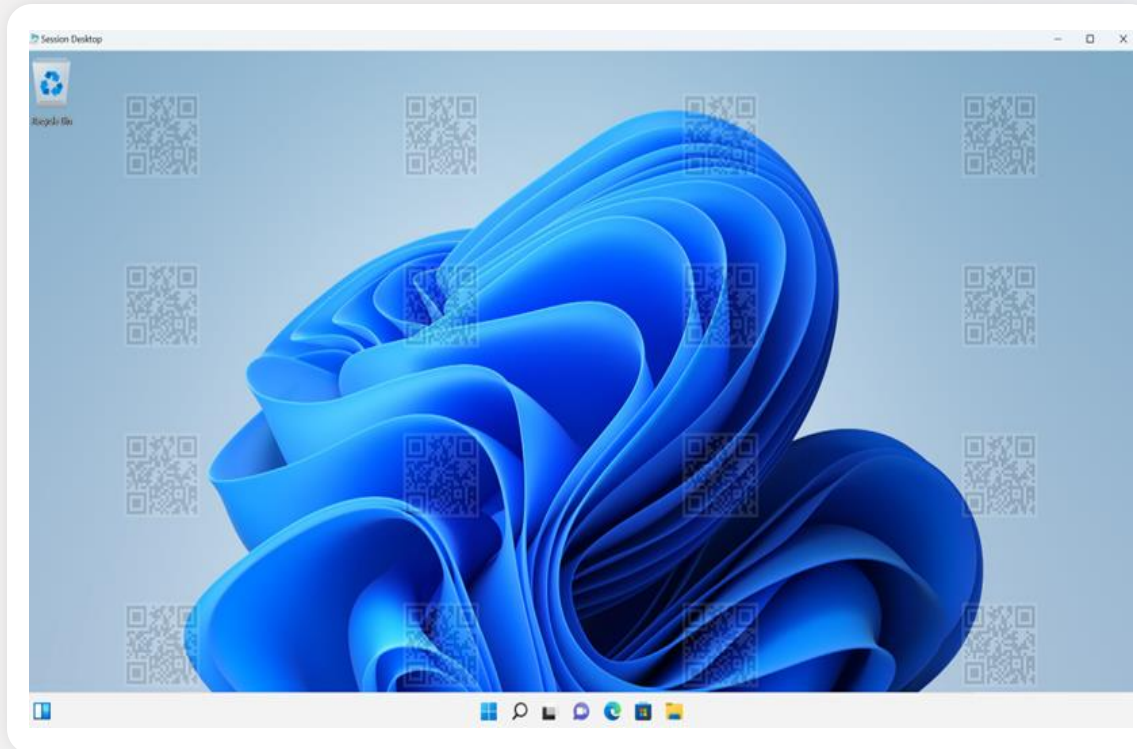
## Admin Permissions

M365: Intune Service Admin (standard MEM RBAC after provisioning)  
Azure: Subscription Owner (setup network connection **if** required)

# Windows data protection

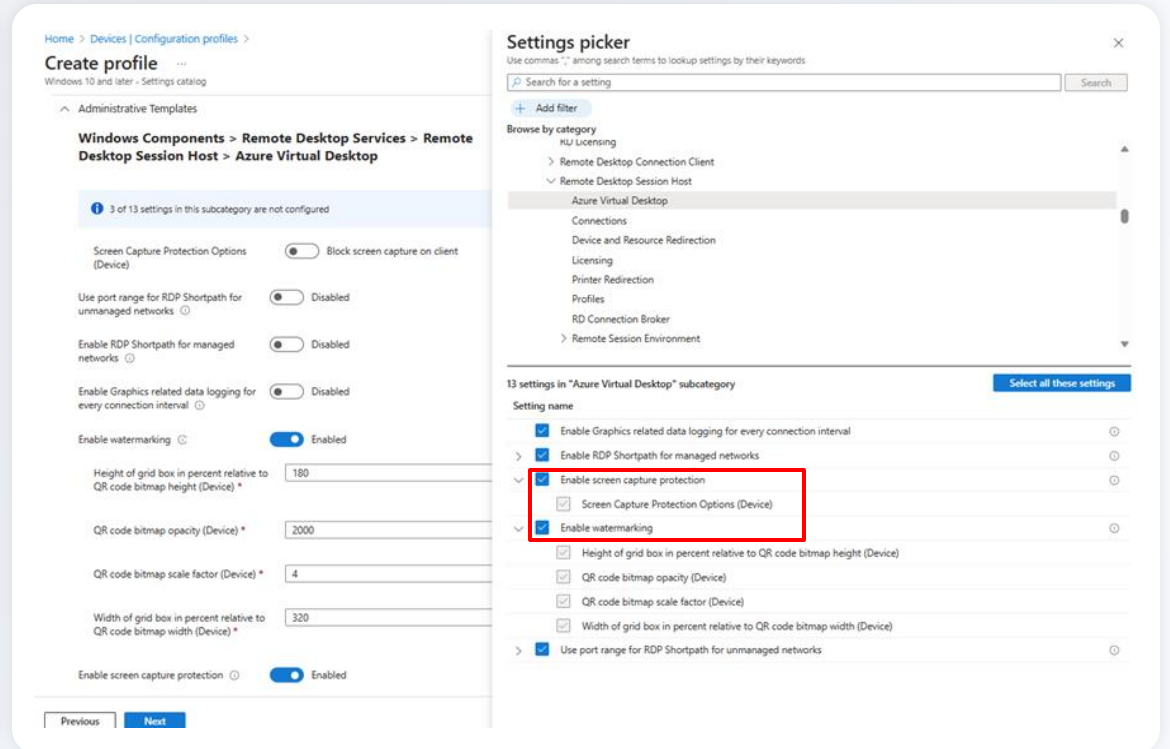
## Watermarking

Add a traceable watermark to Cloud PCs



## Screen capture protection

Block/hide remote content in screenshots and screen sharing



# Microsoft Purview Insider Risk Management with Forensic Evidence (e.g. for NIS2 compliance)



## Signals to identify insider risks

- Visual context aids security teams during forensic investigations.
- Helps identify malicious or insider risks (e.g., IP theft, data leakage).



## Privacy by design

- User privacy is protected through multiple levels of approval for the activation of the capturing feature.
- Role-based access controls (RBAC) and audit logs help ensure user privacy.



## Selective capturing

- Organizations set policies based on priority events and sensitive data.
- Users can be notified when forensic capturing is activated.

The screenshot displays the Microsoft Purview Insider Risk Management console. The left sidebar contains navigation options such as Home, Compliance Manager, Data classification, Data connectors, Alerts, Reports, Policies, Permissions, Roles & scopes, Trials, Evaluation lab, Catalog, App governance, Audit, Content search, Communication compliance, Data loss prevention, Data subject requests, and eDiscovery. The main content area is titled "Insider risk management" and includes tabs for Overview, Alerts, Cases, Policies, Users, Reports, Forensic evidence, Notice templates, and Adaptive protection (preview). The "Forensic evidence" tab is active, showing a list of captured clips. The list includes columns for Date/time (UTC), Device, and duration. One clip is selected, and a preview window is open, displaying a screenshot of a Microsoft Outlook interface. The preview shows an email list and a selected email with a "Share" button. The bottom of the preview window shows a video player interface with a timestamp of 06:41:16 AM UTC.

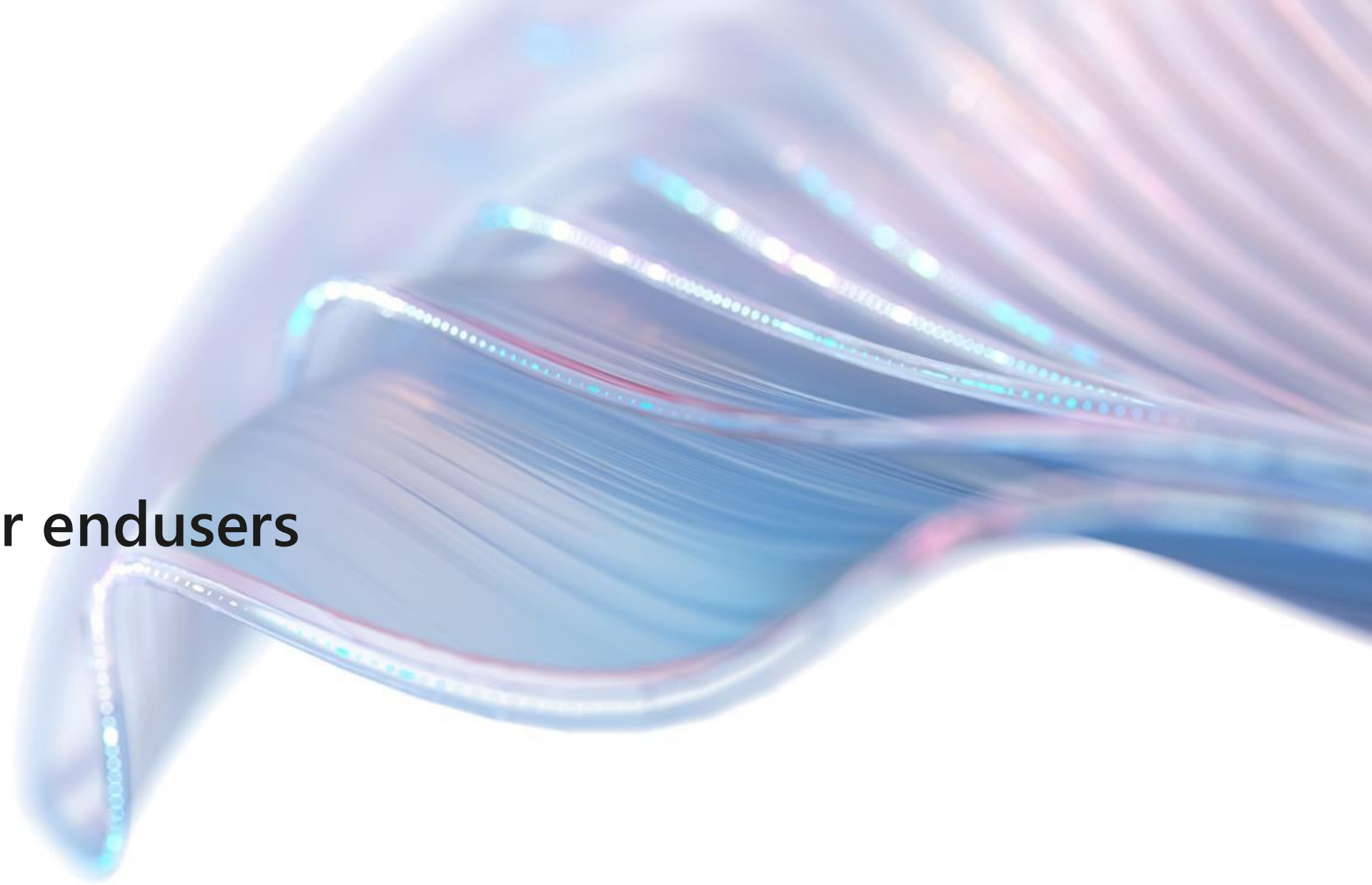


# Windows 365 Cross-region Disaster Recovery & DR Plus

- **Protect against regional outages** – Create geographically distant temporary copies of Cloud PCs that can be accessed in the selected backup region
- **Recover your Cloud PC “snapshot”** – Help ensure business continuity and respond quickly, even during challenging scenarios
- **Configured to your needs** – Customize your recovery plan and integrate the feature into your existing reports and workflows
- **Optional feature** – Requires a Windows 365 Cross-region Disaster Recovery license

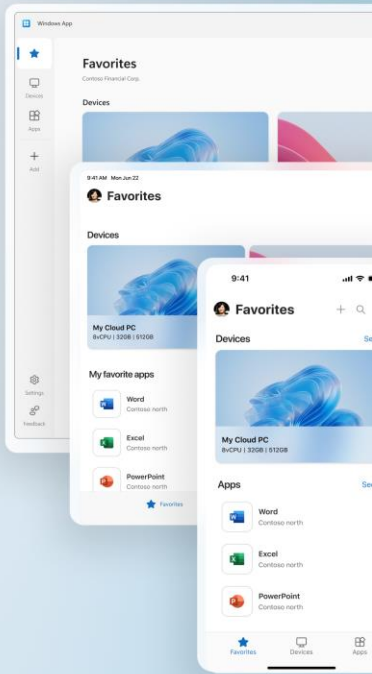


# Highlights for endusers

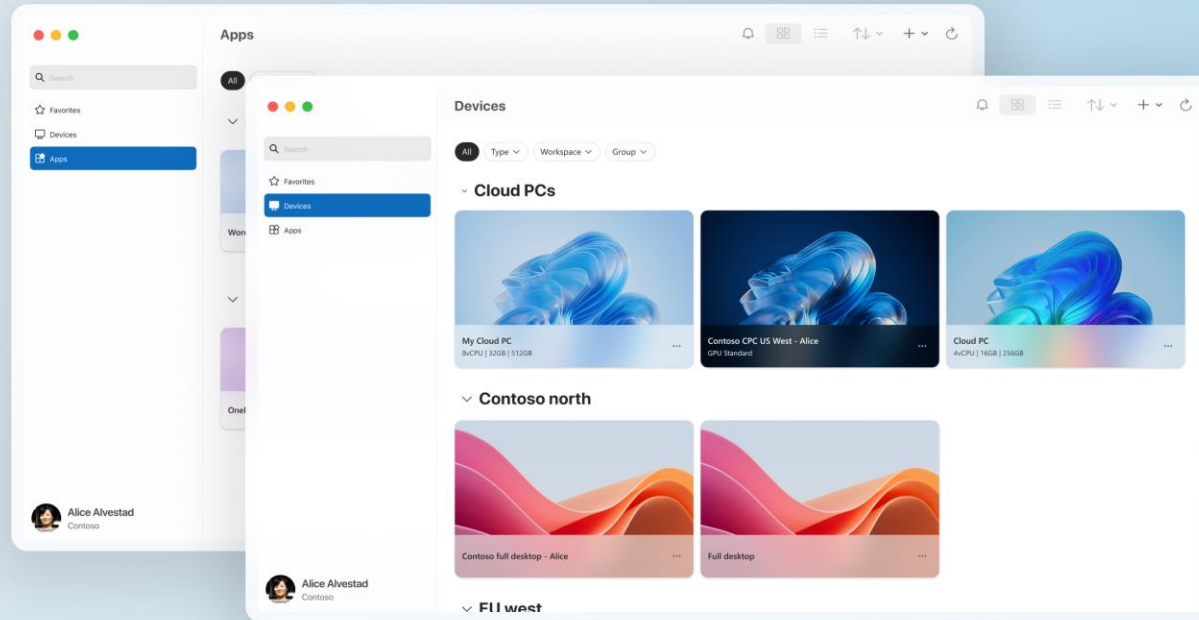



# Windows App offers cross-platform capabilities

Access your Windows on any device, anywhere.



Favorite your devices and apps for quick access.



 [Download on Microsoft Apps](#)

 [Download on the App Store](#)

 [Download on Google Play](#)

 [Weblink via HTML 5 Browser](#)

# Enduser View: Easy to access and manage from the web\*

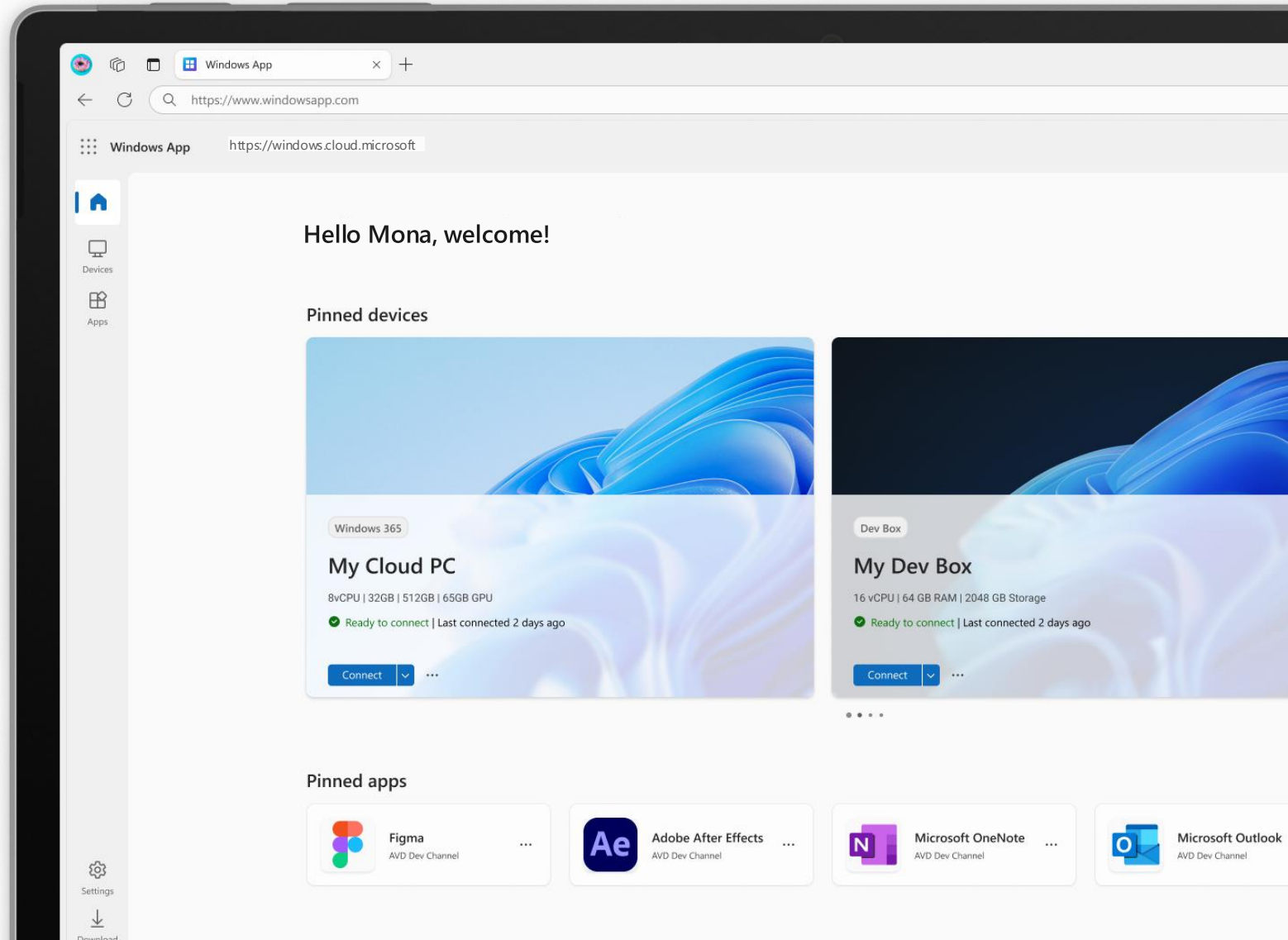
Navigate to [windows.cloud.microsoft](https://windows.cloud.microsoft)

You will see your **Cloud PCs, AVD devices and RemoteApps** and the option to connect to them

Customize your Home page

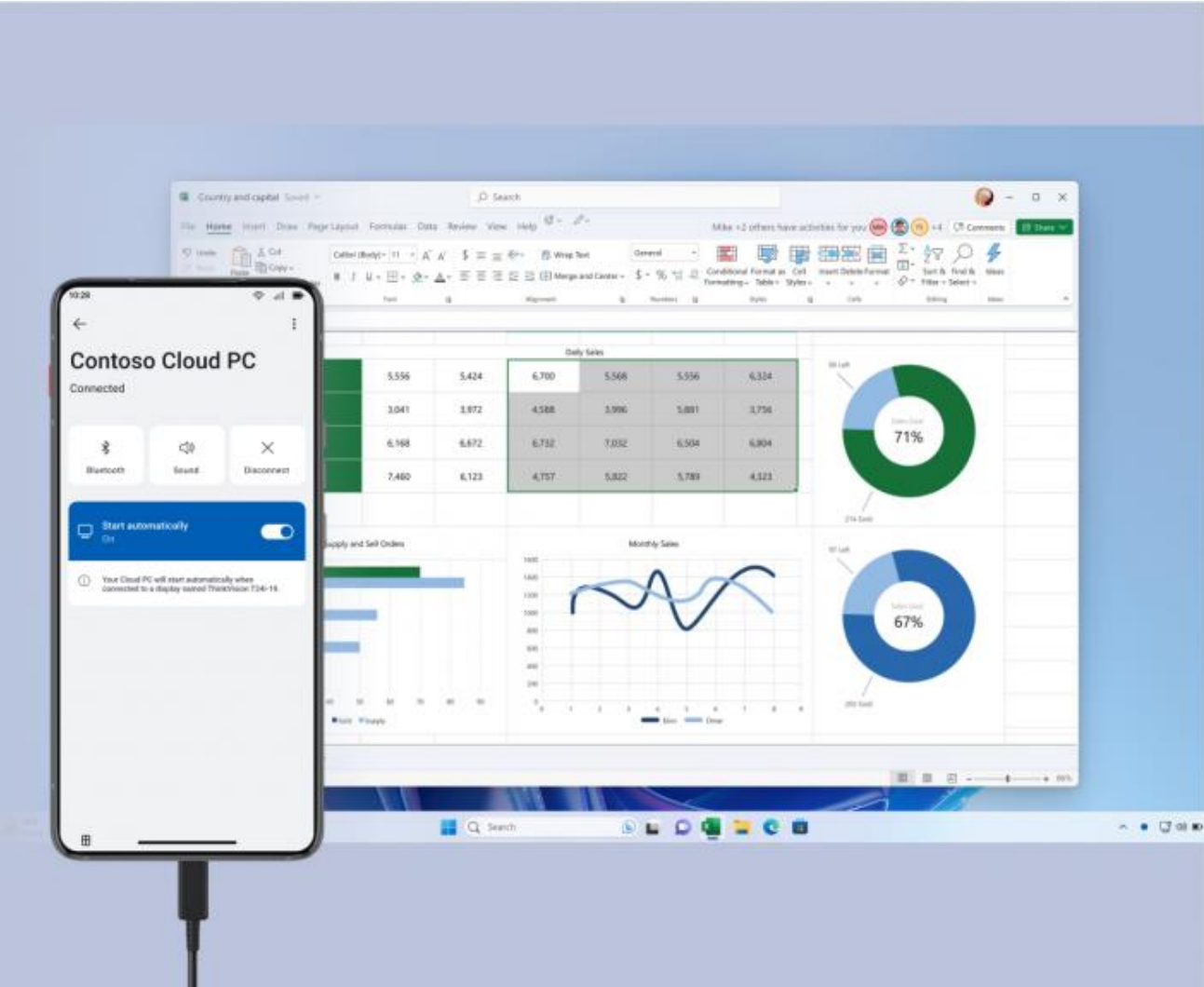
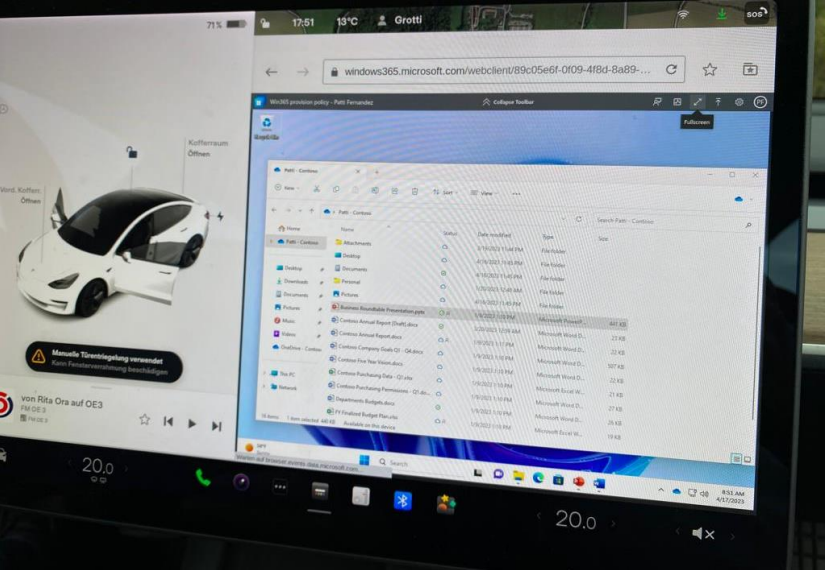
- Pin devices and apps to your Home page to simplify your workflow and make your frequently used resources easy to find

\*Internet access required. Connect time charges may apply.





# Windows 365 on different devices



# Enhanced Windows 365 app experience on ThinkPhone by Motorola

Microsoft and Lenovo have partnered to bring a new built-in experience to the market on the ThinkPhone, turning an external display into a Windows 365 endpoint when connected.

Key benefits to multiple employee personas, including shift/part-time workers:

- Instant access to your assigned Windows 365 Cloud PC with zero clicks
- Immersive Windows experience optimized for keyboard and mouse
- Security with an integrated privacy screen
- Seamless multi-tasking with all phone apps & services without performance degradation
- Matching remote session and connected display resolution
- Use phone camera for video calls, avoiding need for a separate USB-web camera
- Watch the video: [Windows 365: Introducing Enhanced Windows 365 App Experience – Re-imagining mobile productivity](#)





# Introducing Windows 365 Link

The first Cloud PC device purpose-built by Microsoft to connect securely to Windows 365 in seconds



# Introducing Windows 365 Link

The first Cloud PC device purpose-built by Microsoft to connect securely to Windows 365 in seconds.



Cloud-powered performance

Secure by design

Simplified IT management

Aligned with sustainability goals



# Windows 365 Boot

When you power on your device, Windows 365 Boot will take you to your Windows 11 login experience. After login, you will be directly connected to your Windows 365 Cloud PC with no additional steps.

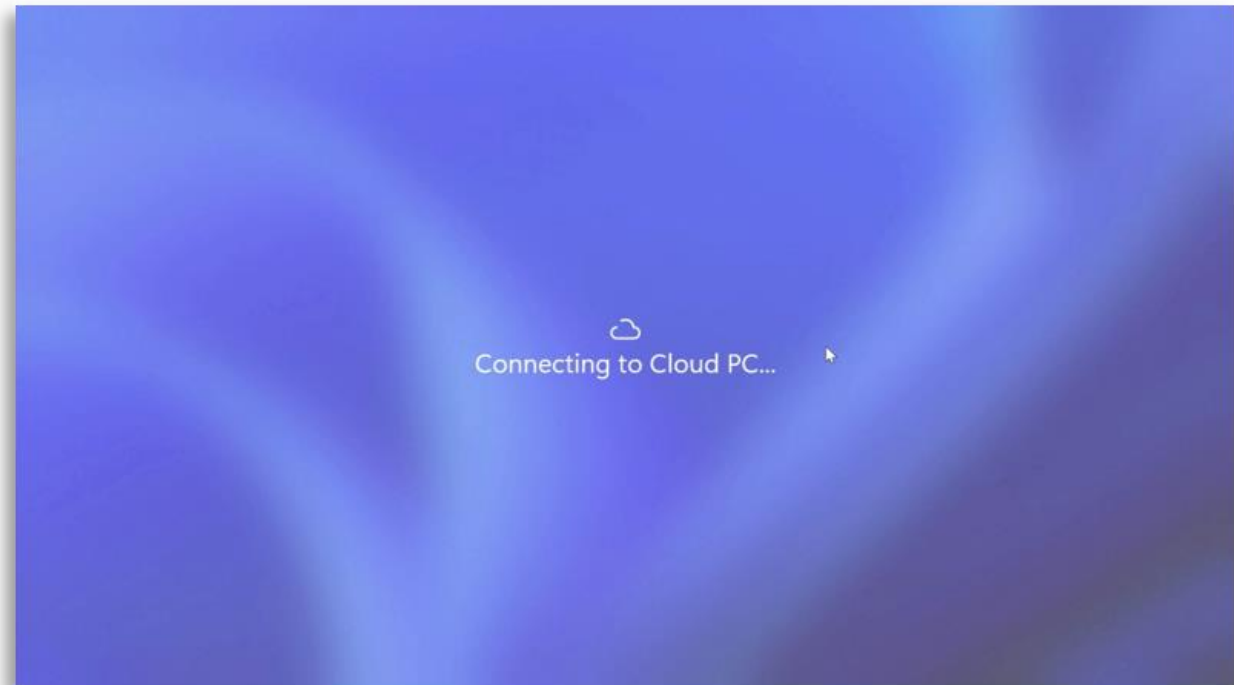
This is a great solution for shared devices (e.g., frontline workers), where logging in with a unique user identity can take you to your own personal and secure Cloud PC.

Admins can configure devices with Windows 365 Boot via the new Microsoft Intune guided scenario.

## Requirements to enable Windows 365 Boot:

- Windows 11-based endpoints (Windows 11 Pro and Enterprise)
- Update your device to the latest Windows 11 version (22H2.2361 or later)
- Microsoft Intune Administrator rights
- Windows 365 Cloud PC license (See [Create provisioning policies](#) for the Windows 365 Enterprise edition or [Add a user and assign licenses in Windows 365 Business](#) for guidance on how to create Cloud PCs.)

**Boot directly to your Cloud PCs from the initial Windows login screen!**



[Windows 365 Boot is now generally available!](#)

**October 14, 2025**







**Windows 10 support ends**





# ESU for Windows 365 and Azure Virtual Desktop

Windows 10 ESU is automatically included in the Windows 365 Enterprise and Frontline worker subscriptions.

## Windows 365

<p>Cloud PC</p>  <p>Windows 10</p> <p>ESU included at no cost</p>	<p>Cloud PC</p>  <p>Windows 11</p>
<p>Client PC</p>  <p>Windows 10</p> <p>ESU included at no cost</p>	<p>Client PC</p>  <p>Windows 10</p> <p>ESU included at no cost</p>

## Azure Virtual Desktop

<p>Virtual Machine</p>  <p>Windows 10</p> <p>ESU included at no cost</p>	<p>Virtual Machine</p>  <p>Windows 11</p>
<p>Client PC</p>  <p>Windows 10</p>	<p>Client PC</p>  <p>Windows 10</p>



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