

#POWERCON2023

Azure Virtual Desktop, Windows 365 e
l'evoluzione della VDI

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Agenda

- Microsoft VDI: Azure Virtual Desktop e Windows 365
- Product comparison

Azure Virtual Desktop

Azure Virtual Desktop

The Best Virtual Desktop Experience



Accessible from anywhere



Enabling remote work logics



Flexible and quick to deploy



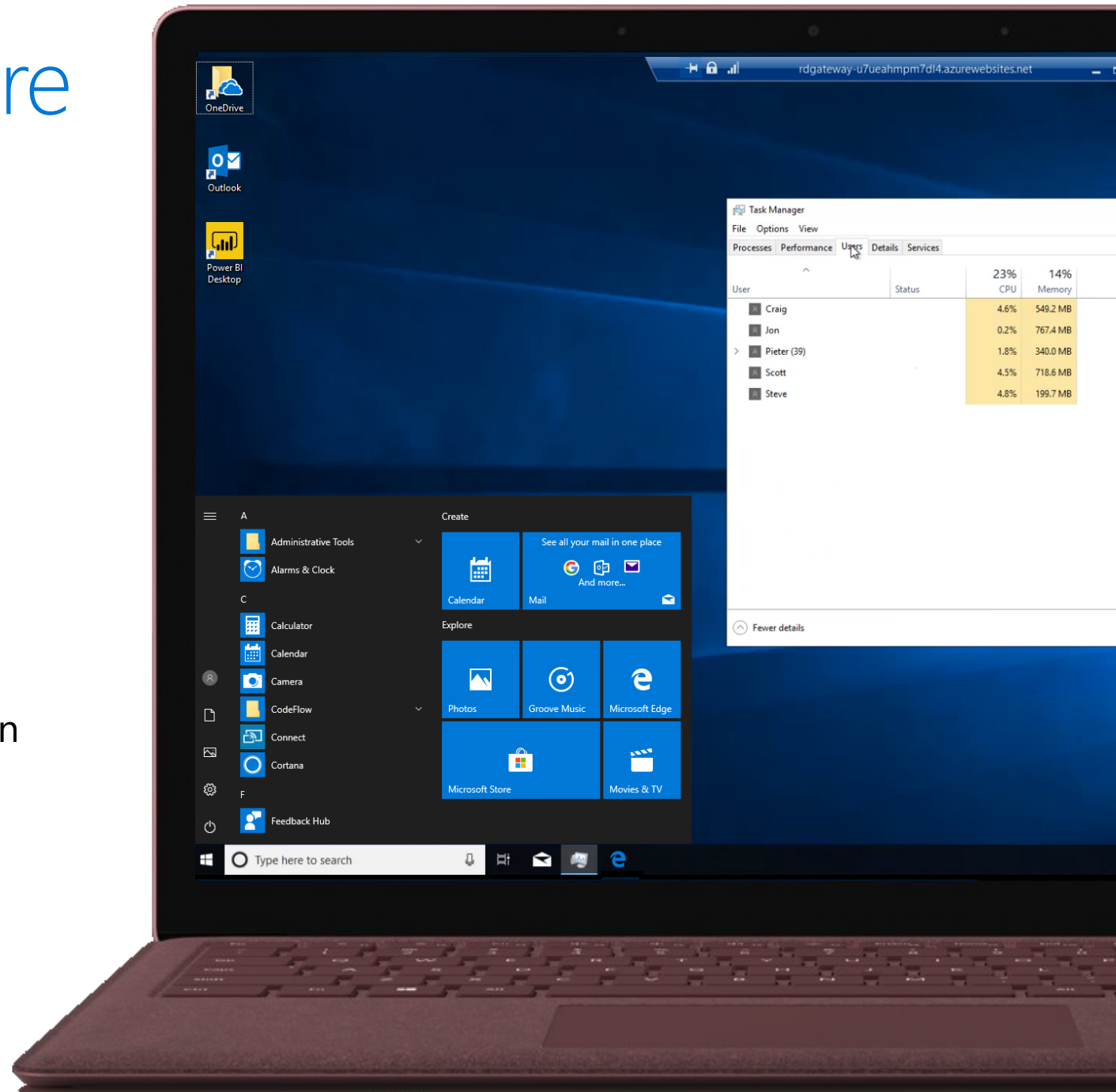
Cost-effective



Accessible from anywhere

Azure Cloud platform service that allows the publication of:

- Desktop
- Applications (Microsoft or third parties)
- Published resources reside on Windows Client and/or Windows Server virtual machines that can be accessed from anywhere and securely via the Internet channel.



Shifting workforce and organizational needs



Remote and hybrid work



Elastic workforce



Organizational expansion and change



Bring your own PC (BYOPC)



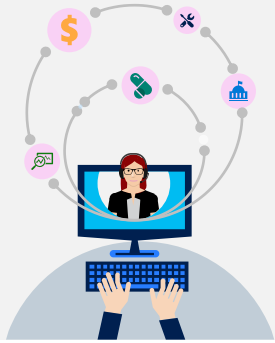
High-scale and specialized workloads



Security and compliance



Business Scenarios



Security and regulation

Financial Services

Healthcare

Government



Flexible workforce

Mergers and acquisition

Short term employees

Contractor and partner access

BYOD and mobile

Call centers

Branch workers



Specialized workloads

Design and engineering

Legacy apps

Software dev test

Supported Operating Systems

Windows 10/11 Enterprise Multi-session

Windows 10/11 Enterprise Single-Session

Windows Server 2022

Windows Server 2019

Windows Server 2016

Windows Server 2012 R2



Licensing



Client

Customers are eligible to access Windows 10/11 single and multi session with Azure Virtual Desktop (AVD) if they have one of the following licenses*:

- Microsoft 365 E3/E5
- Microsoft 365 A3/A5/Student Use Benefits
- Microsoft 365 F3
- Microsoft 365 Business Premium
- Windows Enterprise E3/E5
- Windows Education A3/A5
- Windows VDA per user

**Customers can access Azure Virtual Desktop from their non-Windows Pro endpoints if they have a Microsoft 365 E3/E5/F3, Microsoft 365 A3/A5 or Windows VDA per user license.*



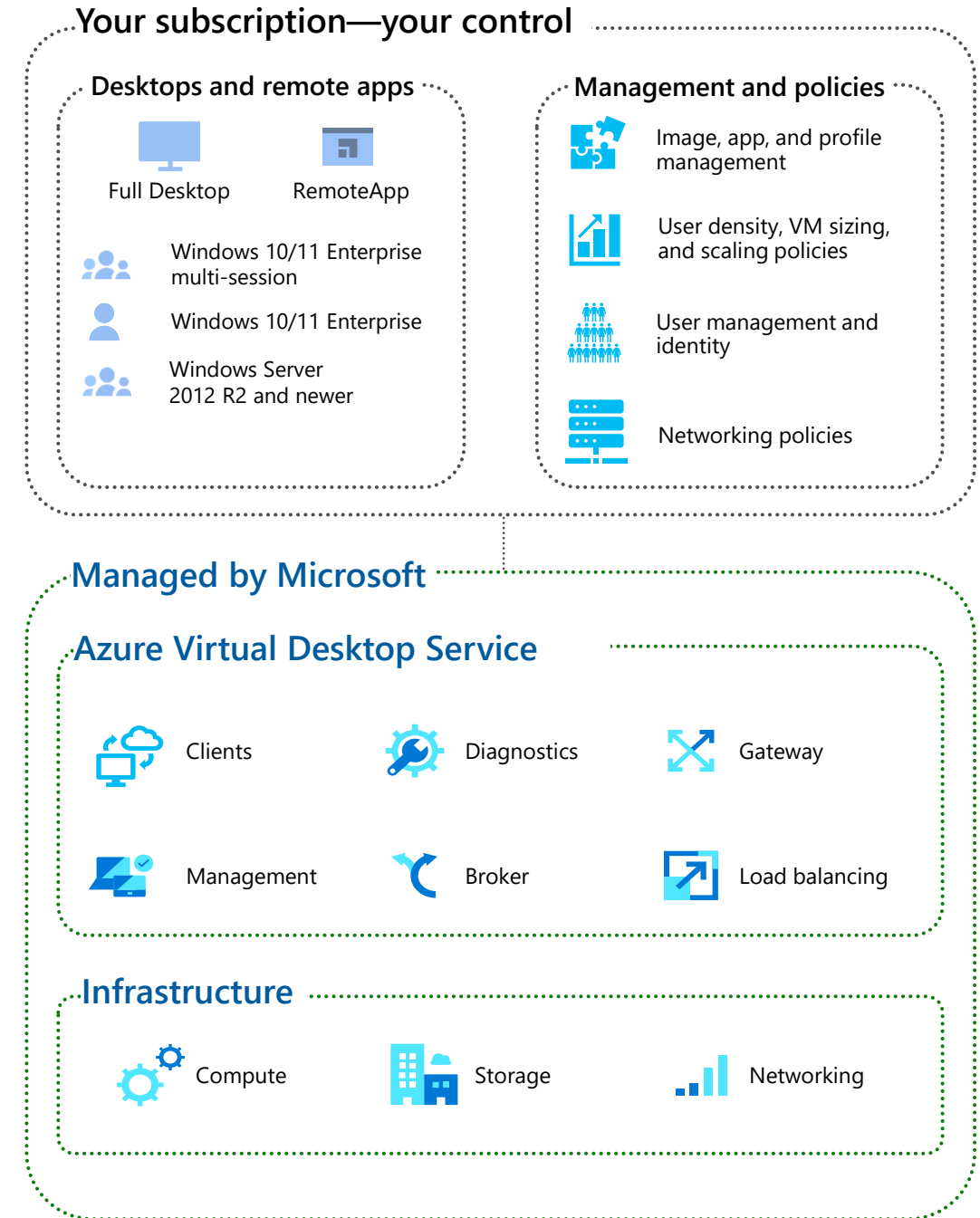
Server

Customers are eligible to access Server workloads with Azure Virtual Desktop (AVD) if they have one of the following licenses:

- RDS CAL license with active Software Assurance (SA)

High-level architecture

- The enabling part of the Virtual Desktop service (Gateway, Web Access, Load Balancing) is completely managed by Microsoft and must not be enabled, configured, updated, managed. It is a free service (it does not affect Azure credits).
- The publishing part of Desktop and Applications is based on Azure virtual machines that must be created, configured and managed. It is a service with consumption of Azure credits.
- The virtualizer and networking part enabling the Azure platform is managed entirely by Microsoft and does not need to be enabled, configured, updated and managed. It is a service included in the cost of virtual machines that are created on the Azure platform.



FSLogix Technologies

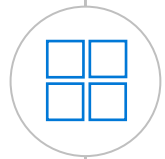
Microsoft, through the acquisition of FSLogix, provides the following technologies:



Profile Container

Separazione del profilo dell'utente dalle macchine virtuali utilizzate.

- Include Office 365 Container, il quale separa le cache di Office (Outlook OST, OneDrive cache, Skype for Business GAL, etc.) e l'indice del servizio Windows Search in modo da velocizzare il logon utente a una nuova postazione di lavoro virtualizzata senza comprometterne le performance.



App Masking

E' possibile creare un'unica immagine di riferimento contenente tutte le applicazioni necessarie. Ciascun utente vedrà e utilizzerà solo le applicazioni a lui assegnate.



Java Redirection

Effettua il mapping tra una specifica versione di Java a una specifica applicazione in modo da favorire la compatibilità in presenza di multiple versioni di Java sulle macchine virtuali.

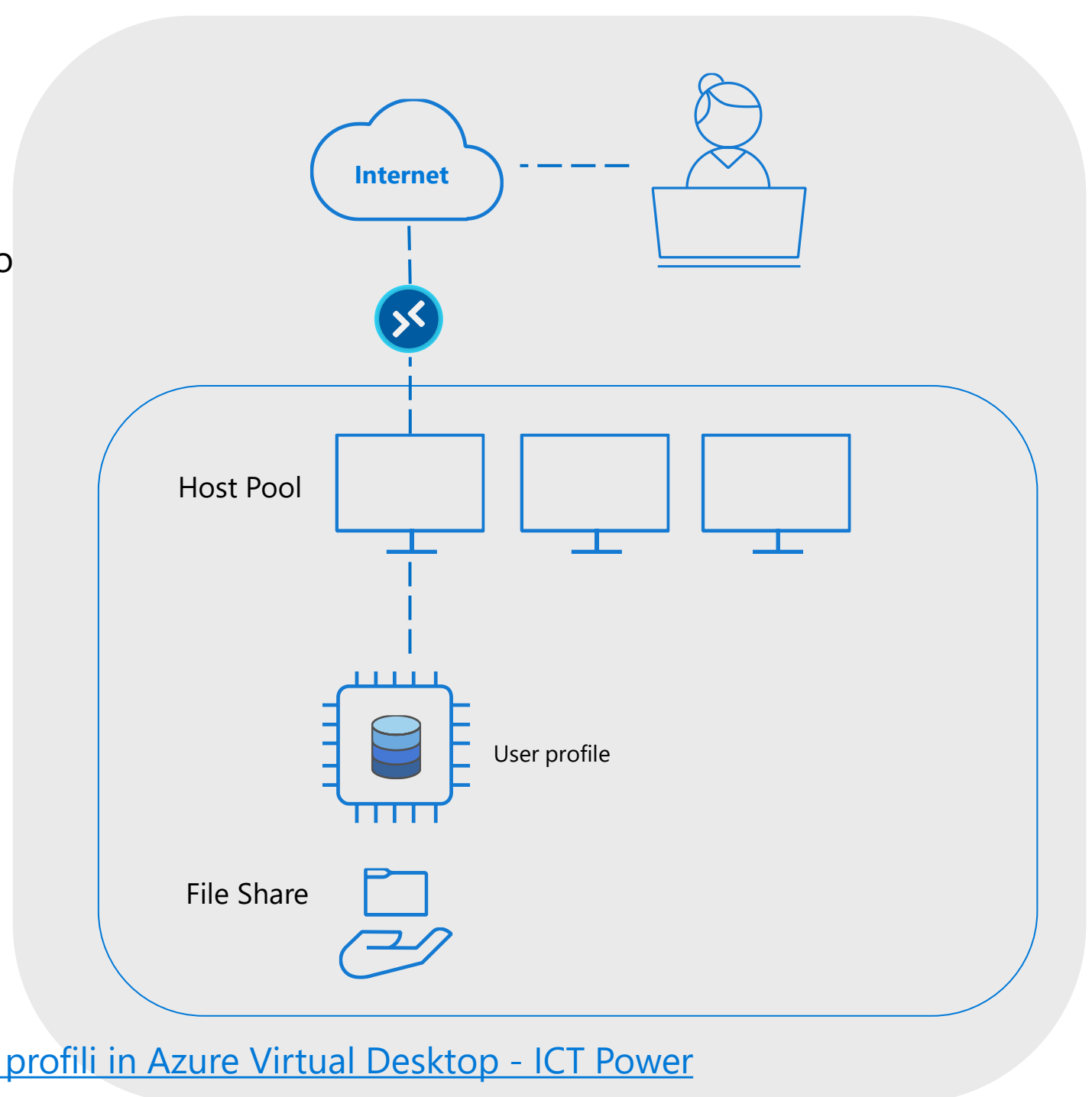
FSLogix Technologies

Microsoft, through the acquisition of FSLogix, provides the following technologies:

- Profile Containers
- App masking
- Java redirection

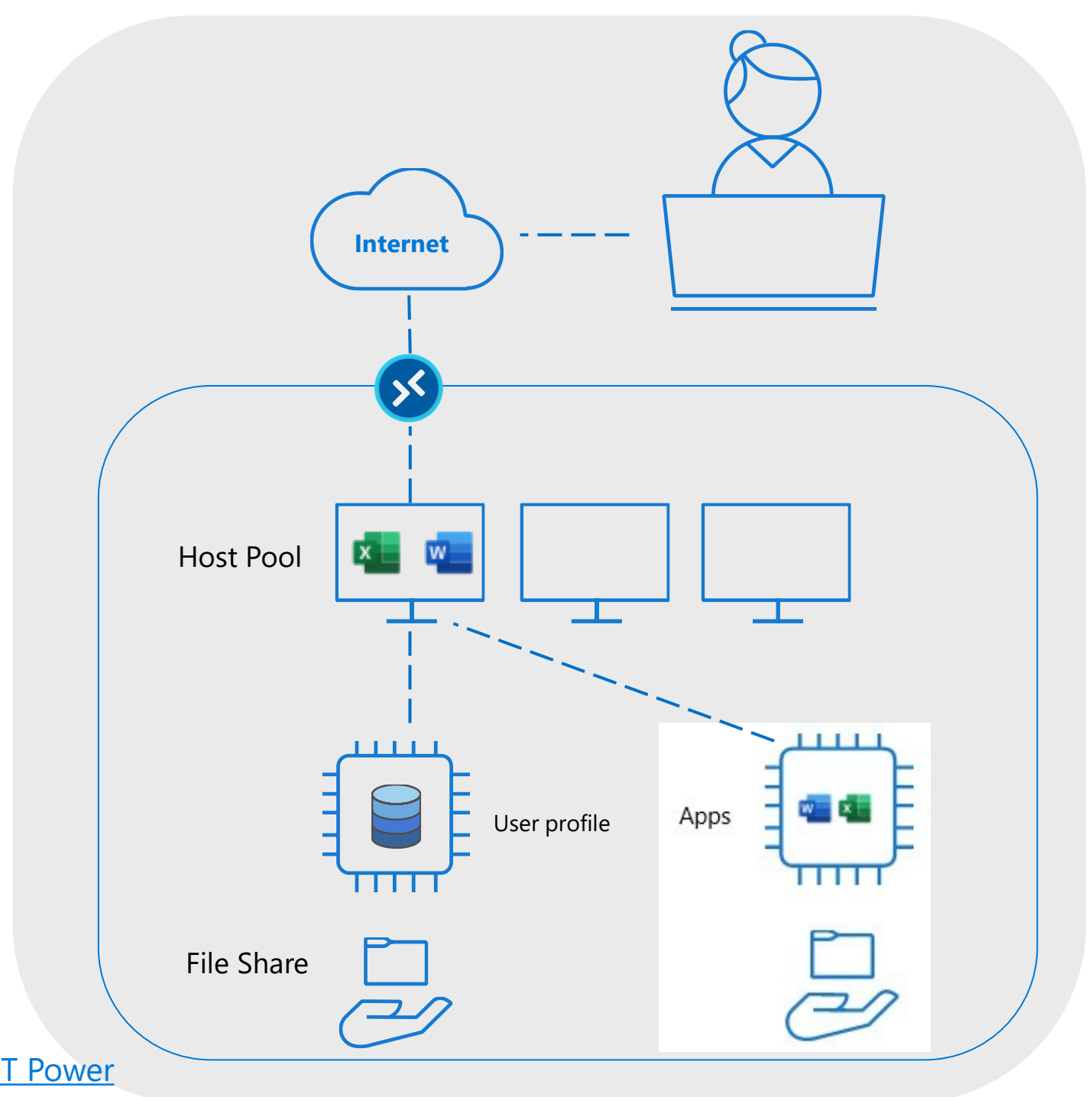
FSLogix Profile storage options in AVD:

- IaaS Share
- Azure Files
- Azure NetApp (4 TB Minimum)



MSIX App Attach

Applications are kept on an Azure share not installed on VMs
Applications are docked to the virtual machines to which they are assigned
Only authorized users see them

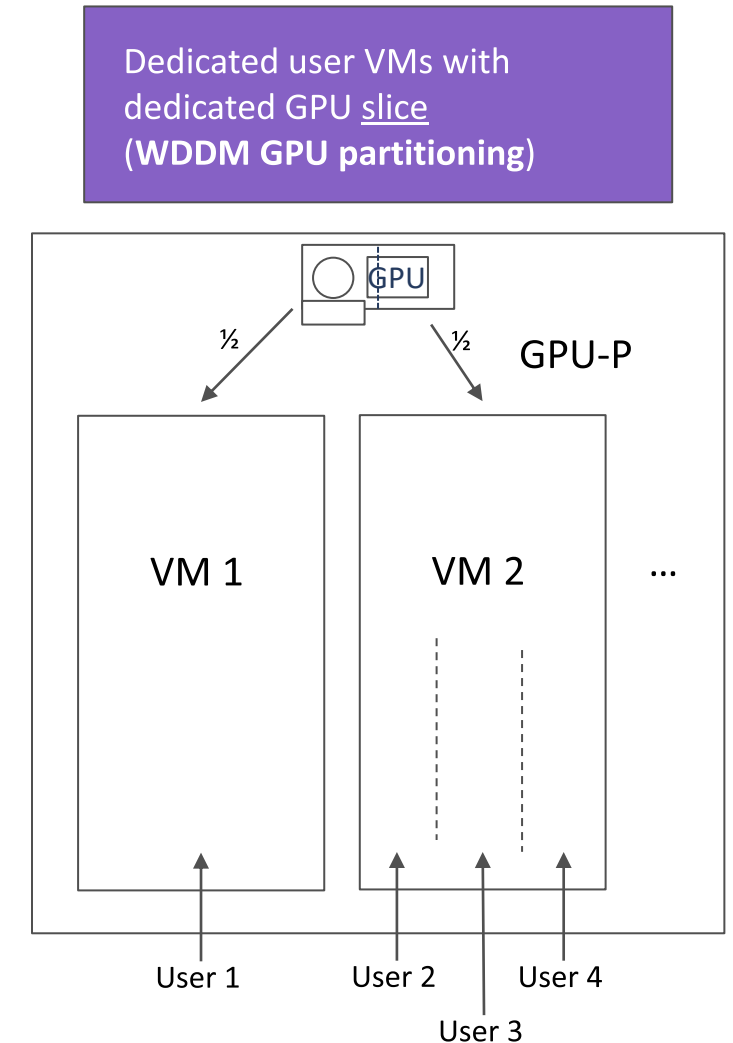


Support for graphical applications

GPU partitioning (WDDM)

- Types of Azure Virtual Machine optimized for graphical computation
- Each Virtual Machine receives a guaranteed portion of GPUs

Size	vCPU	Memory	GPU memory	Azure network
Standard_NV4as_v4	4	14 GB	2 GB	50 Gbps
Standard_NV8as_v4	8	28 GB	4 GB	50 Gbps
Standard_NV16as_v4	16	56 GB	8 GB	50 Gbps
Standard_NV32as_v4	32	112 GB	16 GB	50 Gbps



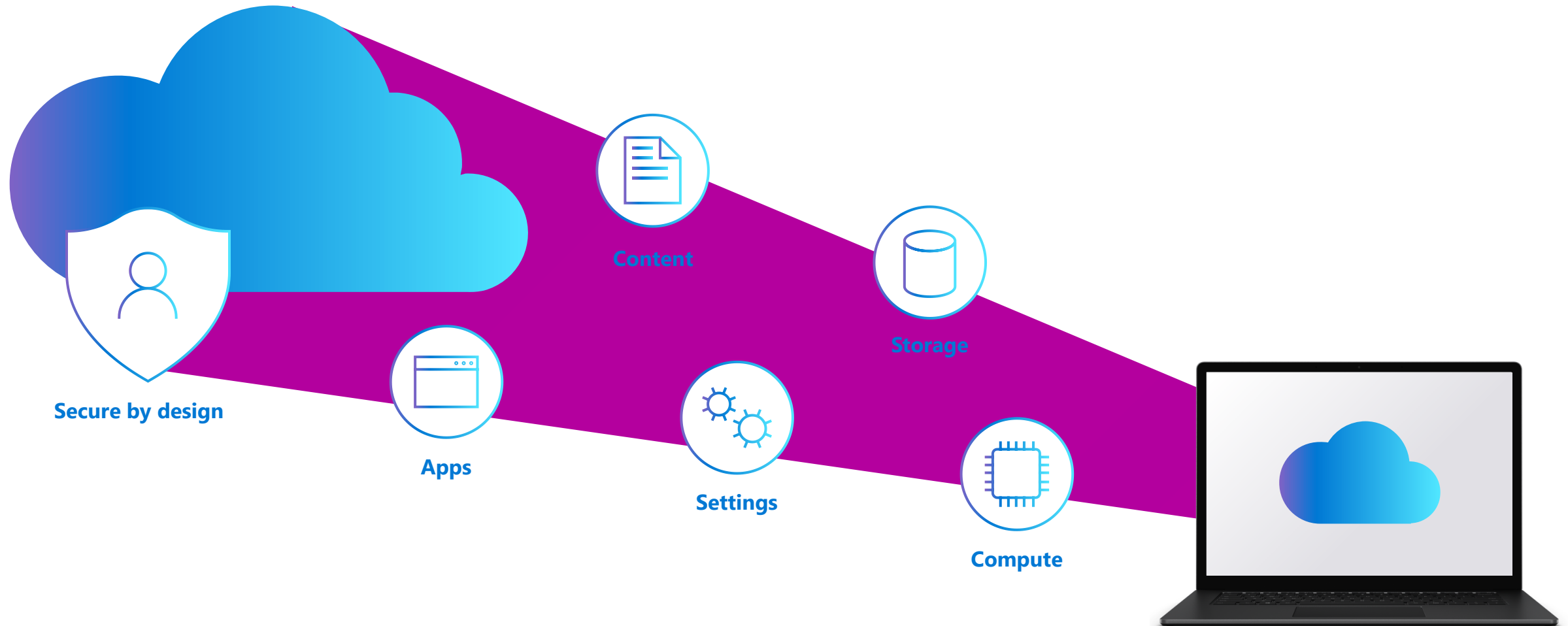
What's New

- [Creare immagini personalizzate con Custom image templates in Azure Virtual Desktop](#)
- [Gestione tramite Microsoft Intune e utilizzo degli administrative templates \(ADMX\) personalizzati](#)
- [Configurare Microsoft Teams in Azure Virtual Desktop](#)
- [Universal Print in Azure Virtual Desktop](#)
- [Aggiungere i language pack a Windows 10/11 in Azure Virtual Desktop e Windows 365](#)
- [Azure Virtual Desktop: Screen capture protection e watermarking](#)
- [Connettersi ad Azure Virtual Desktop con Azure MFA e Conditional Access](#)
- [Proteggere l'accesso ad Azure Virtual Desktop utilizzando Privileged Identity Management](#)
- [Announcing General Availability of Confidential VMs in Azure Virtual Desktop - Microsoft Community Hub](#)

Windows 365 Cloud PC

Windows 365 Cloud PC

A new solution for today's hybrid workforce



Windows 365:

Versatile options to meet your needs

Access from a variety of devices and operating systems

Form factor

Desktop / Laptop / Tablet / Phone

Platform

Windows / Mac, iOS / Android

Provision with your choice of Windows

Windows 10

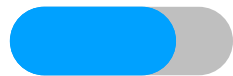
Windows 11

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



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



1vCPU

2GB / 64GB



Integrated with Microsoft cloud services



Licensing

Windows 365 Business

Supports native Azure Active Directory join (AADJ)

No Azure subscription required

No licensing pre-requisites

Simple purchase, deploy, manage and use through
windows365.com

Available via Web Direct or CSP

For businesses < 300 users

Windows 365 Enterprise

Azure subscription required

Must be licensed for Windows 10 or 11 Enterprise,
Microsoft Intune and Azure Active Directory P1

Deploy and manage through Microsoft Intune

Available via Web Direct, Field, or CSP

Unlimited number of users

Technical and license requirements (W365 Enterprise)

Licenses:

- Users with Windows Pro endpoints: Windows 10 Enterprise E3 + EMS E3 or Microsoft 365 F3/E3/E5/Business Premium
- Users w/non-Windows Pro endpoints: Windows VDA E3 + EMS E3 or Microsoft 365 F3/E3/F5/Business Premium

Azure subscription → Virtual Network (vNET) creation

Microsoft Intune supported licenses (e.g. Microsoft 365 E3)

Domain controller synched with Azure AD and with Hybrid Join capabilities

[Configurare Windows 365 Enterprise - ICT Power](#)

Technical and license requirements (W365 Business)

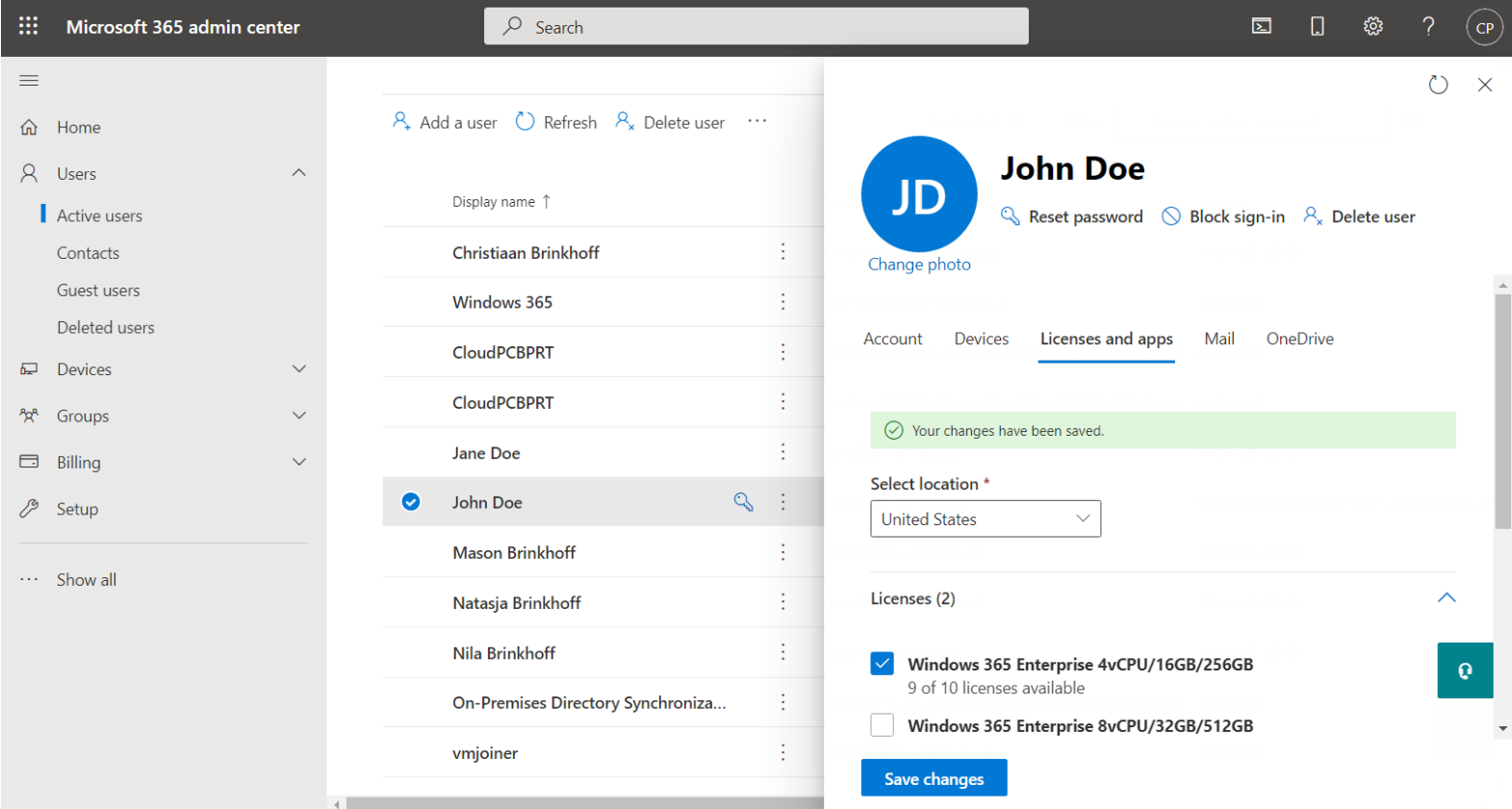
.... **Nothing!**

Assign the licenses

Assign Windows 365 licenses in the Microsoft 365 admin center portal.

- Go to active users
- Open the user(s)
- Assign the Windows 365 Cloud PC size license

These steps can also be performed from the Azure Portal or automatically via Azure AD group assignment for bulk scenarios.



The screenshot displays the Microsoft 365 admin center interface. On the left, a navigation pane shows 'Active users' selected. The main area shows a list of users, with 'John Doe' highlighted. To the right, the user's profile is shown, including a photo and name. Below the profile, the 'Licenses and apps' tab is active, showing two licenses assigned to the user: 'Windows 365 Enterprise 4vCPU/16GB/256GB' (9 of 10 licenses available) and 'Windows 365 Enterprise 8vCPU/32GB/512GB'. A 'Save changes' button is visible at the bottom.

Microsoft 365 admin center

Search

Home

Users

Active users

Contacts

Guest users

Deleted users

Devices

Groups

Billing

Setup

Show all

Add a user Refresh Delete user

Display name ↑

Christiaan Brinkhoff

Windows 365

CloudPCBPRT

CloudPCBPRT

Jane Doe

John Doe

Mason Brinkhoff

Natasja Brinkhoff

Nila Brinkhoff

On-Premises Directory Synchroniza...

vmjoiner

JD John Doe

Reset password Block sign-in Delete user

Change photo

Account Devices Licenses and apps Mail OneDrive

Your changes have been saved.

Select location *

United States

Licenses (2)

Windows 365 Enterprise 4vCPU/16GB/256GB
9 of 10 licenses available

Windows 365 Enterprise 8vCPU/32GB/512GB

Save changes

Resize your Cloud PC

Upgrade your users' Cloud PCs instantly for more resources and performance.

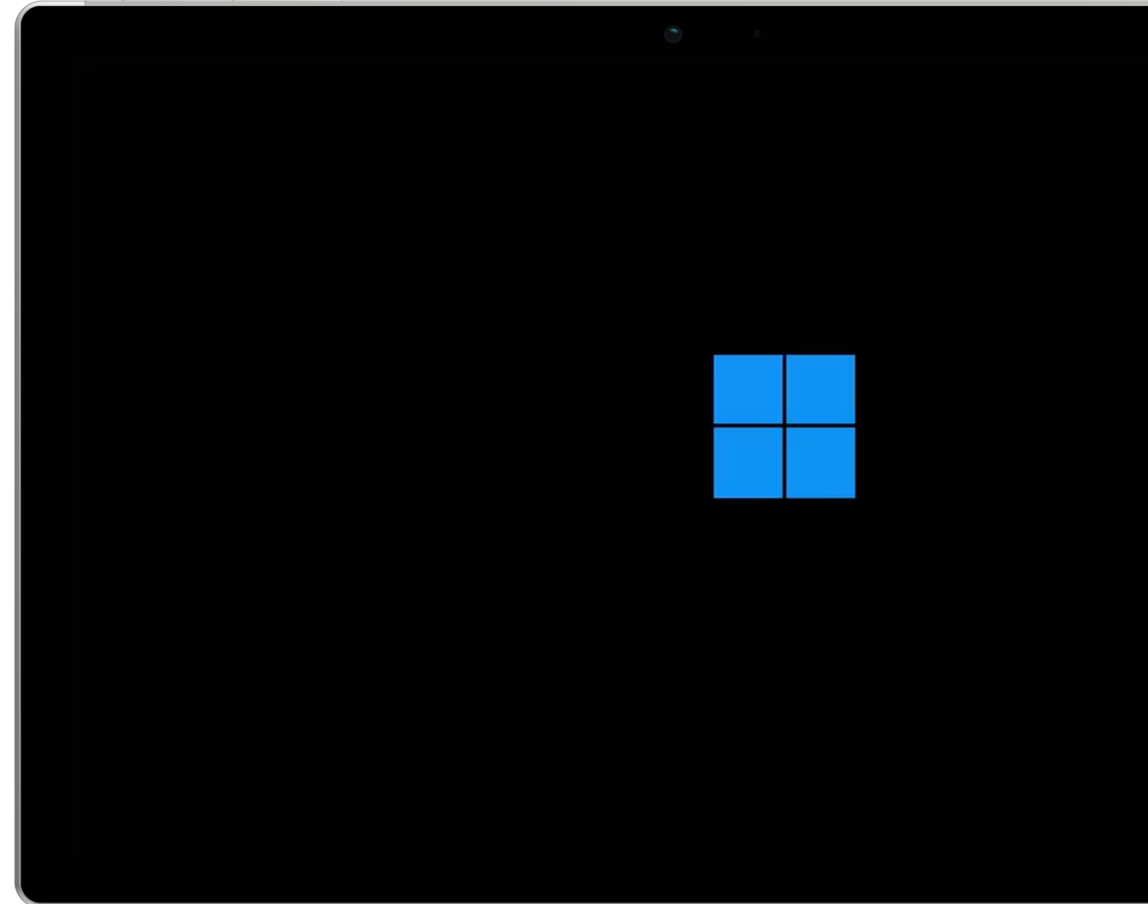
The screenshot displays the Microsoft Intune admin center interface. The main content area shows the details for a device named 'CPC-user1-96ZNL'. A red box highlights the 'Resize (preview)' button in the top right corner of the device details pane. To the right, a 'Resize' dialog is open, showing the current size of the Cloud PC as 'Cloud PC Enterprise 4vCPU/16GB/128GB'. The dialog offers three options for resizing:

Processors	RAM	OS storage
<input type="radio"/> 2vCPU	4GB	128GB
<input type="radio"/> 4vCPU	16GB	256GB
<input type="radio"/> 8vCPU	32GB	128GB

At the bottom of the dialog, there are 'Resize' and 'Cancel' buttons.

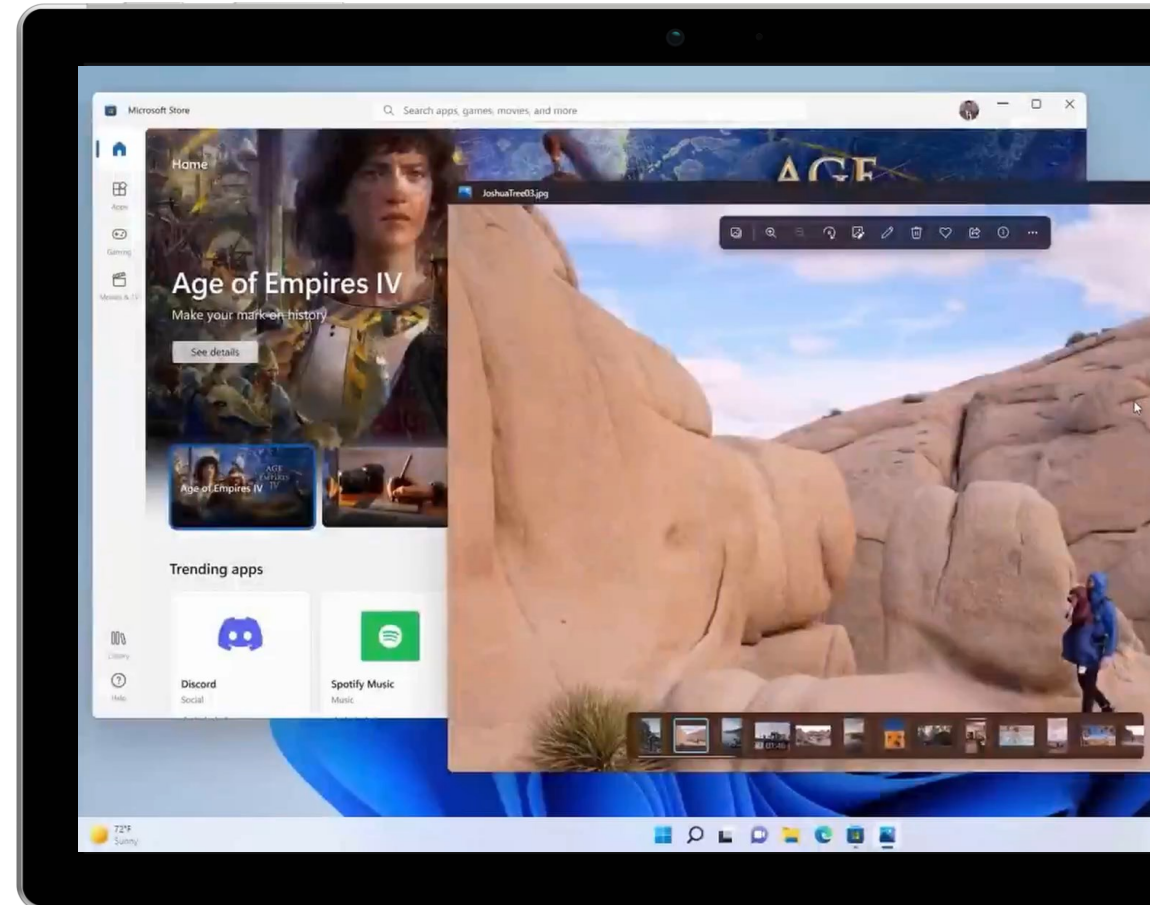
Boot directly into your Cloud PC

- Boot directly into your Cloud PC.
- Compatible with Hello for Business.
- Use case: Transform an old pc into a “thin client”.



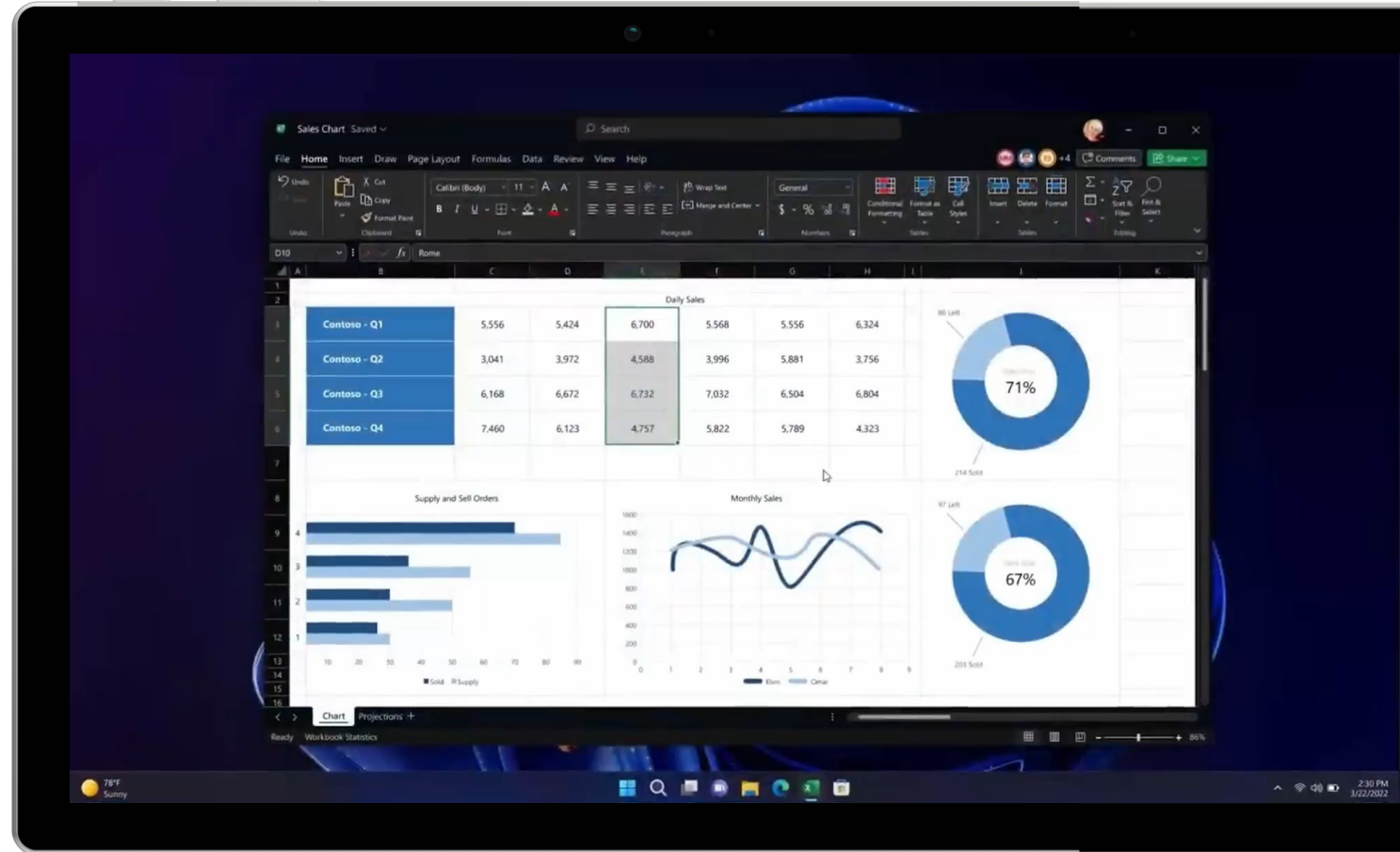
Seamless Switch (Coming soon)

- Seamless switch between local pc and Cloud PC.
- Directly from the Task View button.
- Use case: separation from personal and work device.



Offline mode (Coming soon)

- Ability to work without connection.
- After the connection is restored the Cloud PC is automatically syncing the offline changes.
- Use case: work anywhere in any condition.

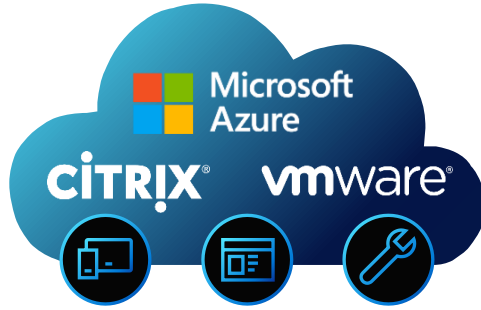


What else?

- [Introducing Windows 365 Frontline | Microsoft 365 Blog](#)
- [From collaborative apps in Microsoft Teams to Windows 365—here's what's new in Microsoft 365 at Inspire | Microsoft 365 Blog](#)
- [New experiences in Windows 11 and Windows 365 empower new ways of working | Microsoft 365 Blog](#)

Solution considerations

The right technology for your specific needs



VDI platform for Windows apps & desktops



Desktop as a Service

Azure Virtual Desktop

Windows 10 or 11/Windows Server multi-session desktops & apps

Customer or partner deploys and manages

Specific IT controls for VM infrastructure management with greater flexibility

Consumption-based pricing

Data residency and geo requirements

Optimized for VDI *flexibility*, requiring in-house/partner VDI expertise

Windows 365

Windows 10 personalized desktop available across devices

Microsoft-hosted and managed backend services

Deploy and manage in Microsoft Intune

VM management incorporated into Microsoft Intune

Predictable fixed monthly per user pricing

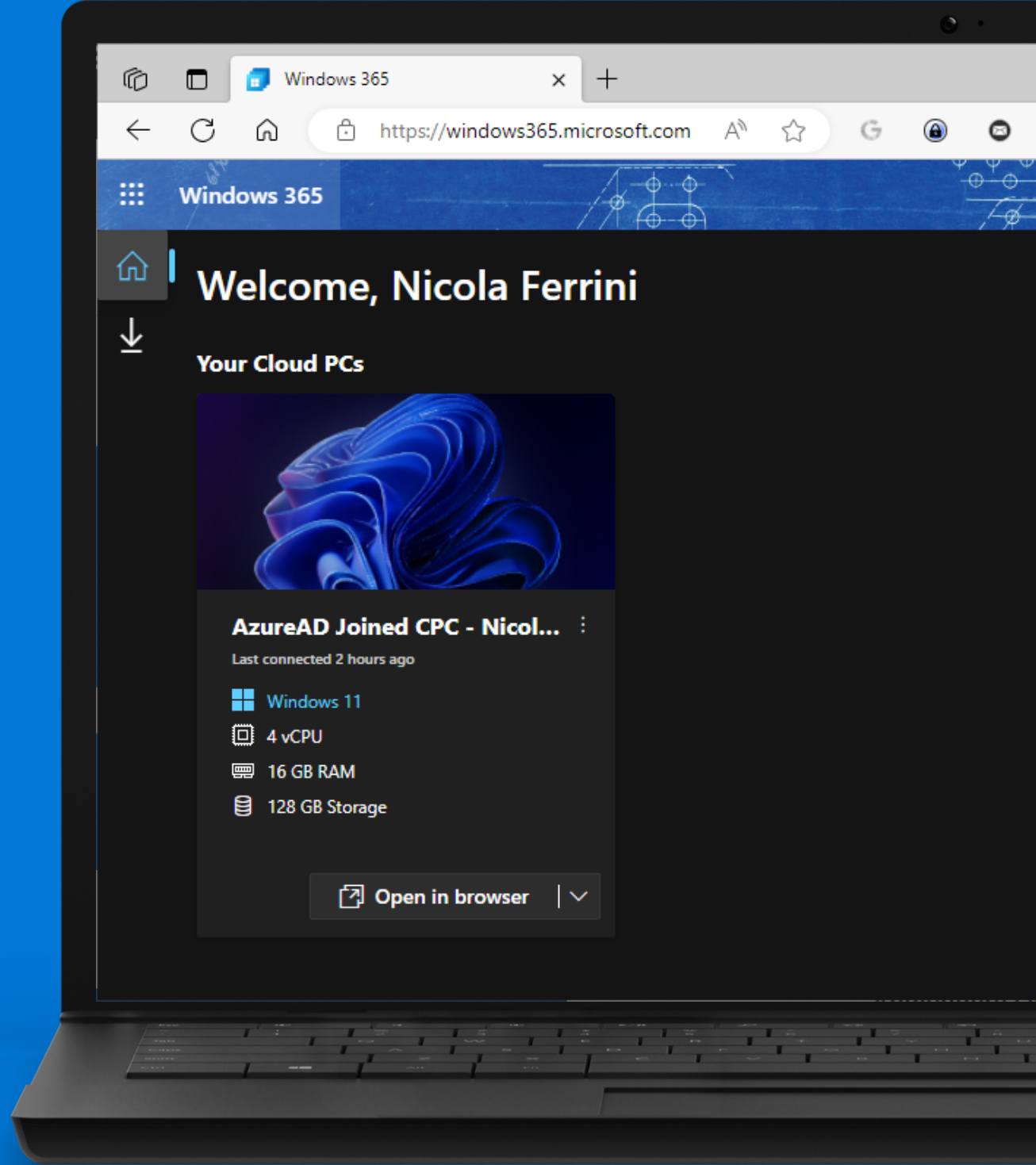
No VDI experience or skills required

Optimized for VDI *simplicity*, requiring no in-house/partner VDI expertise

Windows 365 vs Azure Virtual Desktop

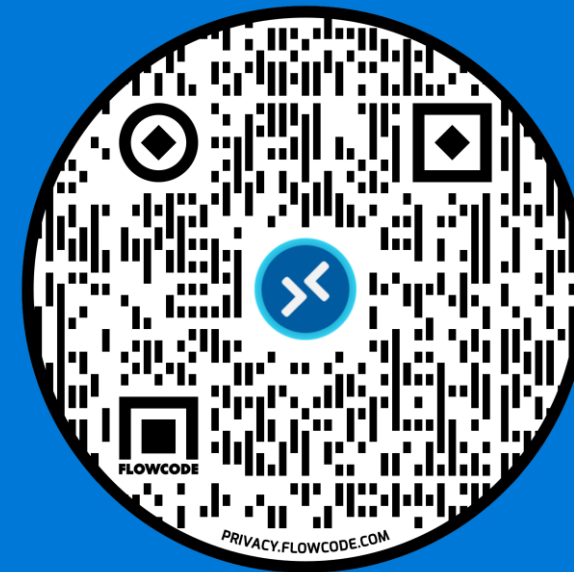
Windows 365 Business	Windows 365 Enterprise	Azure Virtual Desktop
Simple	Simple	Flexible
Fixed Price	Fixed Price	Consumption based price + CAL
SKU (up 300 users)	SKU	Azure Credit + VDA/RDS CAL
Single Session	Single Session	Single or Multi Session
Gallery Image	Gallery/Custom Image	Gallery/Custom Image
Azure AD Join	Azure AD Join or Hybrid Join	Azure AD Join or Hybrid Join
No pre-requirements	Intune, Azure Virtual Network, Domain Controller (if Hybrid)	Azure Tenant, Domain Controller
User Local Administrator	Your choice (Default = Standard)	Your choice
Managed by Microsoft	Managed by Microsoft except the Virtual Network and Domain	Managed by you

DEMO



Azure Virtual Desktop & Windows 365 Italian User Group

Grazie



Nicola Ferrini
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