

Data#3

JuiceIT2024

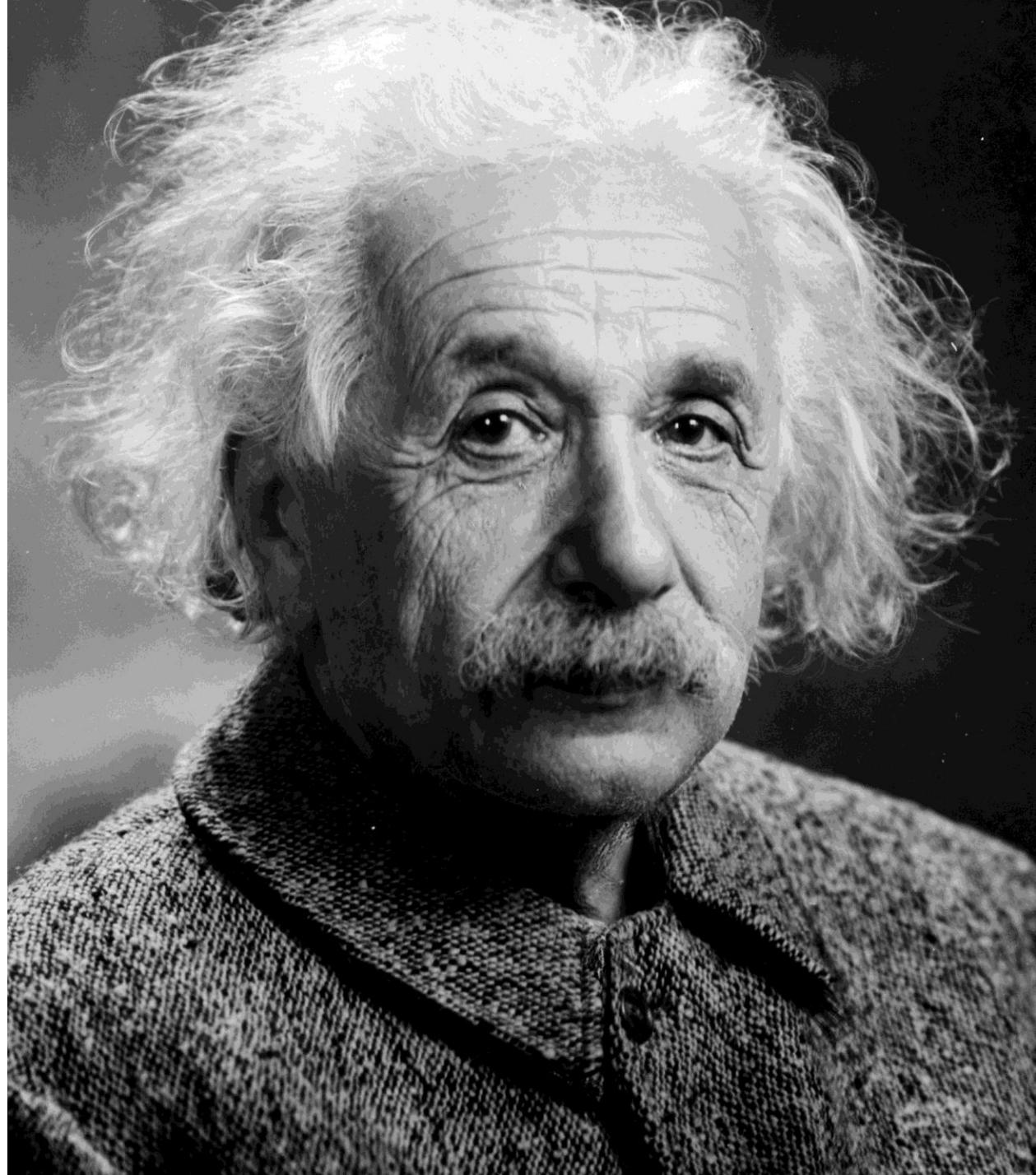
Streamline and Secure modern device management

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Sam Allitt – Principal Solution Architect

NEXT IS NOW

*"Learn from yesterday,
live for today, hope for
tomorrow. The important
thing is not to stop
questioning."*



Death of the SOE

- Most customers transition to a new OS as devices rollover
- It's a BAU task rather than a project



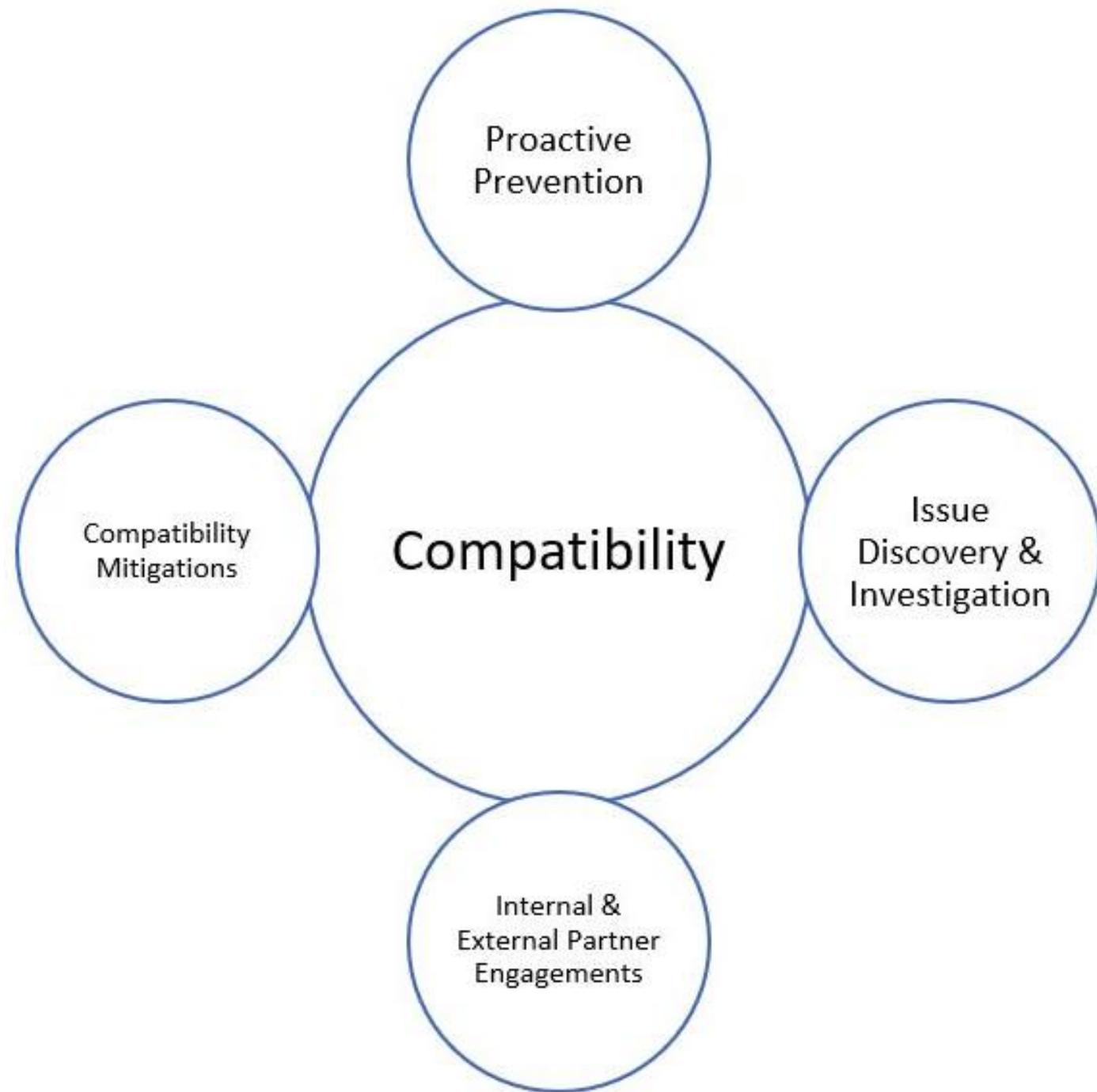
Transformation

- Modern Management adoption due to the pandemic
- Largely killed off imaging
- Large rise in Autopilot adoption



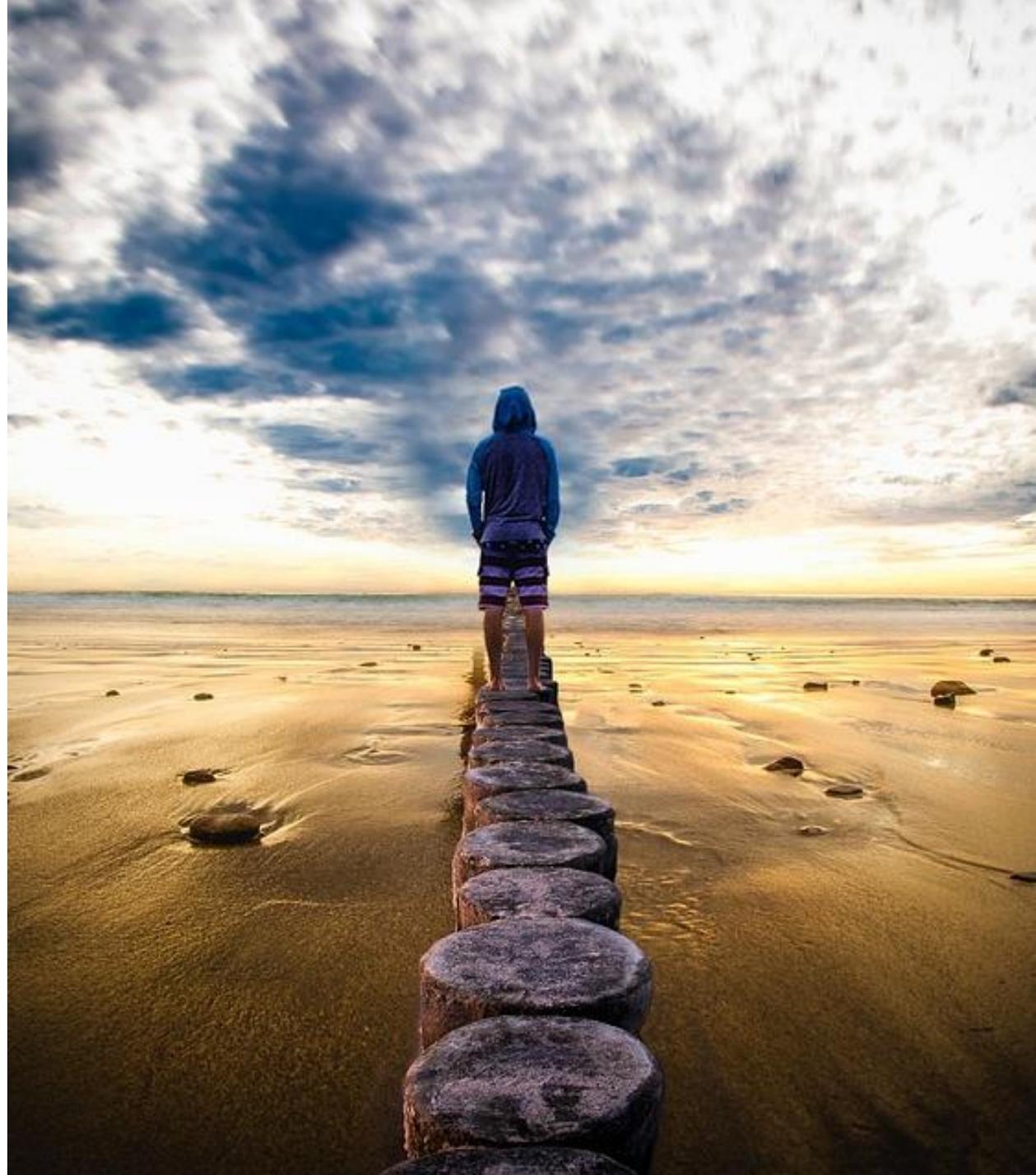
Application Compatibility

- Windows 10 -> 11 – 99.7%
- It's an update, not an upgrade



Reinventing the Device & Windows Experience

- What's your Citrix and VMware future?
- Modernise your device strategy beyond traditional Windows
- How is AI going to impact your device & Windows experience?
- Have you considered edge AI processing & NPU?



Futures

- SOE is more than just a local OS
- Lots of choice;
 - Windows 11
 - Windows 365
 - Azure Virtual Desktop (AVD)
- Lots of confusion out there
- What do ***you*** do?



Windows for hybrid work

Options for maximum flexibility



Windows 11



**Native on a PC or
Tablet**

across price points and form factors



**Cloud VDI with
Azure Virtual Desktop**

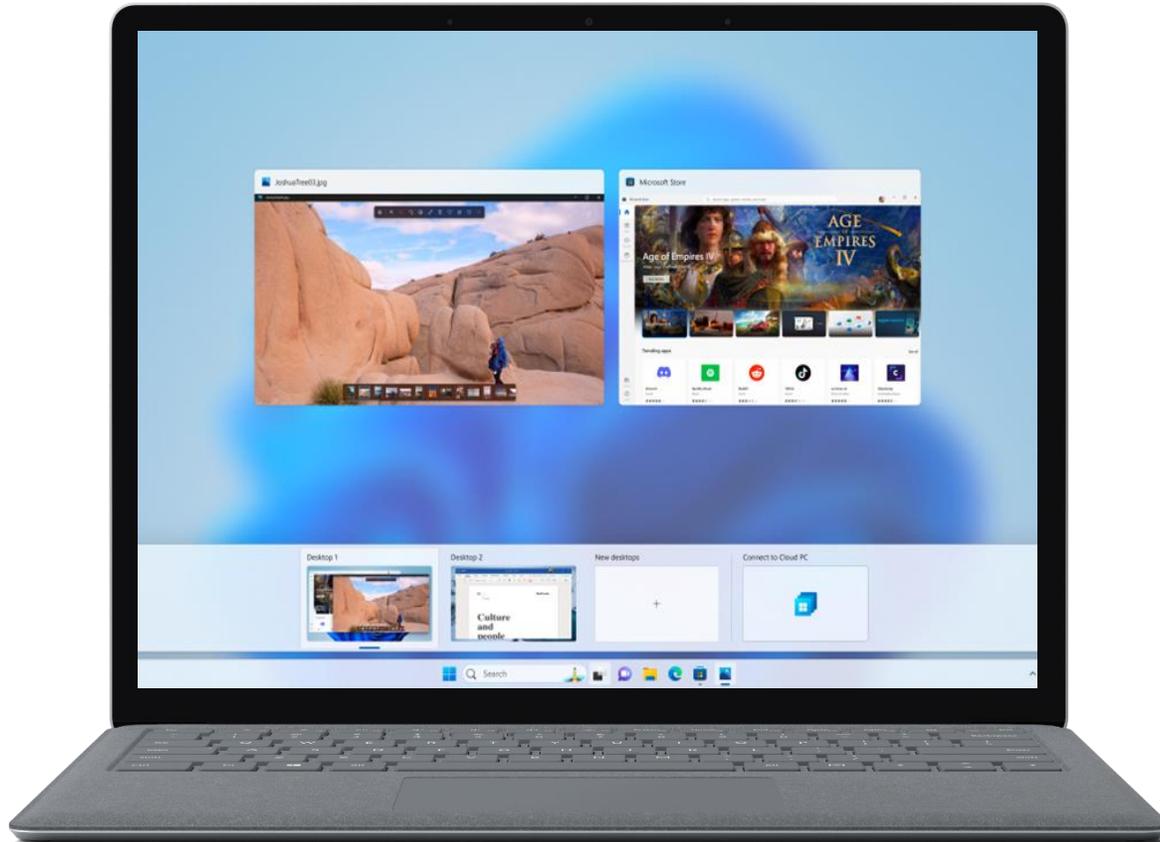
*optimized for **flexibility** and **control***



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

*optimized for **simplicity** and **experience***

Device Provisioning with Autopilot



Apps

Security Baselines

Configuration Profiles

Autopilot Deployment Profile

Windows 11 Operating System

Configuration Profiles

The screenshot displays the Microsoft Intune admin center interface. On the left is a navigation pane with options like Home, Dashboard, All services, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support. The main area shows the 'Create profile' wizard for 'Windows 10 and later - Settings catalog', with steps: Basics, Configuration settings (active), Scope tags, Assignments, and Review. The 'Configuration settings' step is divided into 'Administrative Templates' and 'Desktop > Desktop'. Under 'Desktop > Desktop', there is a notification: '12 of 15 settings in this subcategory are not configured'. A setting 'Desktop Wallpaper (User)' is shown as 'Enabled', with input fields for 'Wallpaper Name: (User)' and 'Wallpaper Style: (User) *' set to 'Center'. Below this is the 'Control Panel > Personalization' section with a notification: '32 of 33 settings in this subcategory are not configured'. Two settings are shown as 'Disabled': 'Prevent changing desktop background (User)' and 'Force a specific Start background'. On the right, a 'Settings picker' pane is open, showing a search bar and a list of categories. The 'Desktop' category is selected, and a list of 15 settings is shown, with 'Desktop Wallpaper (User)' checked. A 'Select all these settings' button is at the bottom right of the picker.

Microsoft Intune admin center

admin@M365t2373437...
CONTOSO (M365T23734370.ON...

Home > Devices | Configuration profiles >

Create profile

Windows 10 and later - Settings catalog

Basics **2 Configuration settings** 3 Scope tags 4 Assignments 5 Review

+ Add settings

Administrative Templates

Desktop > Desktop

12 of 15 settings in this subcategory are not configured

Desktop Wallpaper (User) Enabled

Wallpaper Name: (User)

Wallpaper Style: (User) *

Control Panel > Personalization

32 of 33 settings in this subcategory are not configured

Prevent changing desktop background (User) Disabled

Force a specific Start background Disabled

Settings picker

Use commas "," among search terms to lookup settings by their keywords

Search for a setting Search

+ Add filter

Browse by category

- Above Lock
- Accounts
- Administrative Templates
 - Control Panel
 - Desktop
 - Active Directory
 - Desktop**
 - LAPS
 - MS Security Guide
 - MSS (Legacy)
 - Network
 - Printers
 - Shared Folders
 - Start Menu and Taskbar
 - System

15 settings in "Desktop" subcategory [Select all these settings](#)

Setting name	Selected
> <input type="checkbox"/> Add/Delete items (User)	<input type="checkbox"/>
<input type="checkbox"/> Allow only bitmapped wallpaper (User)	<input type="checkbox"/>
> <input checked="" type="checkbox"/> Desktop Wallpaper (User)	<input checked="" type="checkbox"/>
<input type="checkbox"/> Disable Active Desktop (User)	<input type="checkbox"/>
<input type="checkbox"/> Disable all items (User)	<input type="checkbox"/>
<input type="checkbox"/> Enable Active Desktop (User)	<input type="checkbox"/>
<input type="checkbox"/> Prohibit adding items (User)	<input type="checkbox"/>
<input type="checkbox"/> Prohibit changes (User)	<input type="checkbox"/>
<input type="checkbox"/> Prohibit closing items (User)	<input type="checkbox"/>
<input type="checkbox"/> Prohibit deleting items (User)	<input type="checkbox"/>
<input type="checkbox"/> Prohibit editing items (User)	<input type="checkbox"/>

Use Security Baselines to secure modern endpoints

Security Baselines

are a set of policy templates built on security best practices and experience from real world implementations.

They enable security configurations for Windows, Edge, and Microsoft Defender for Endpoint.

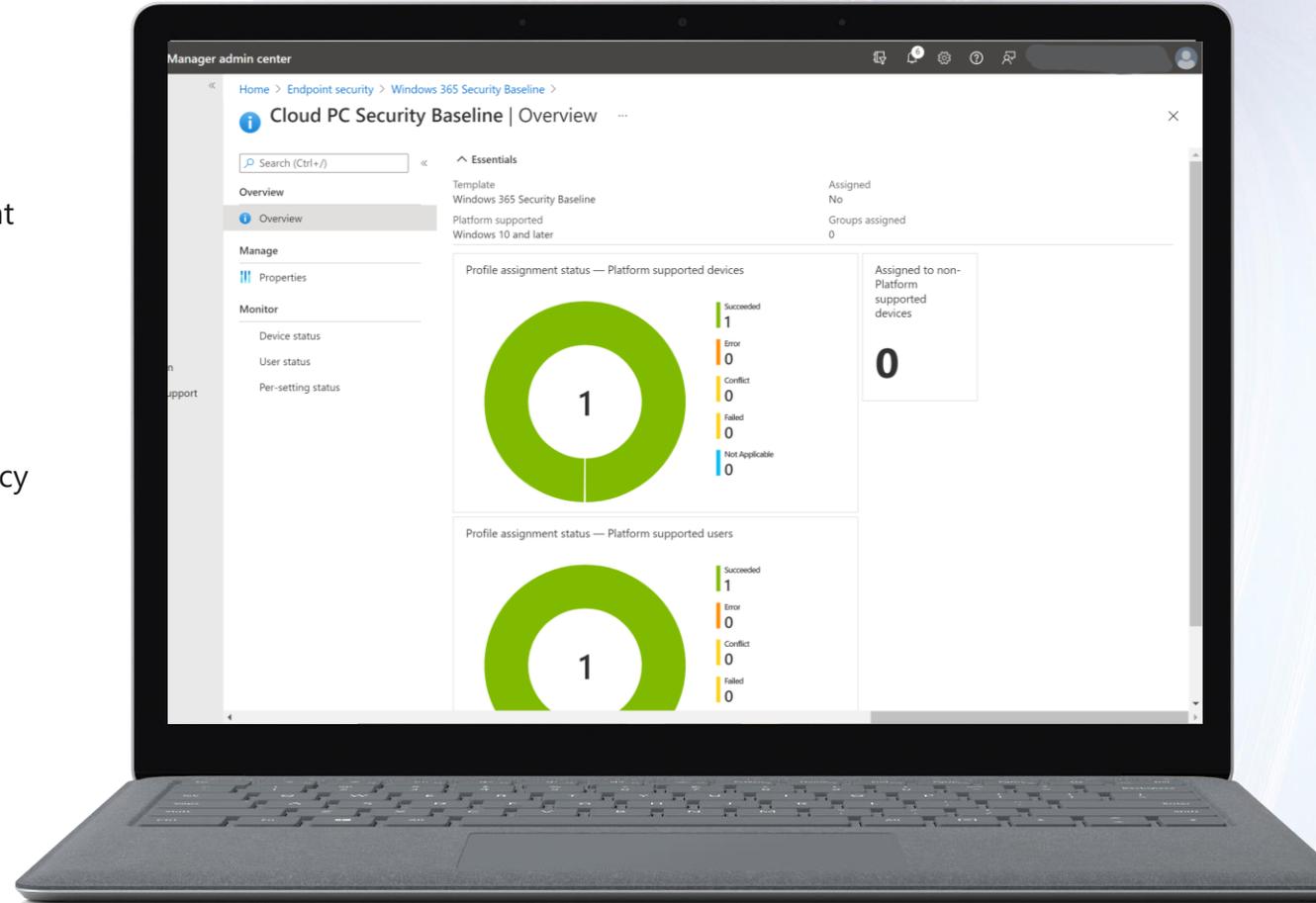
A security baseline profile is a template that consists of multiple device configuration profiles.

Benefits

Includes the best practices and recommendations on settings that impact security.

A good starting point to quickly create and deploy a secure configuration profile.

Easier to migrate from group policy to Intune management.



Compliance and Conditional Access Policies

Check devices are compliant to a minimum standard

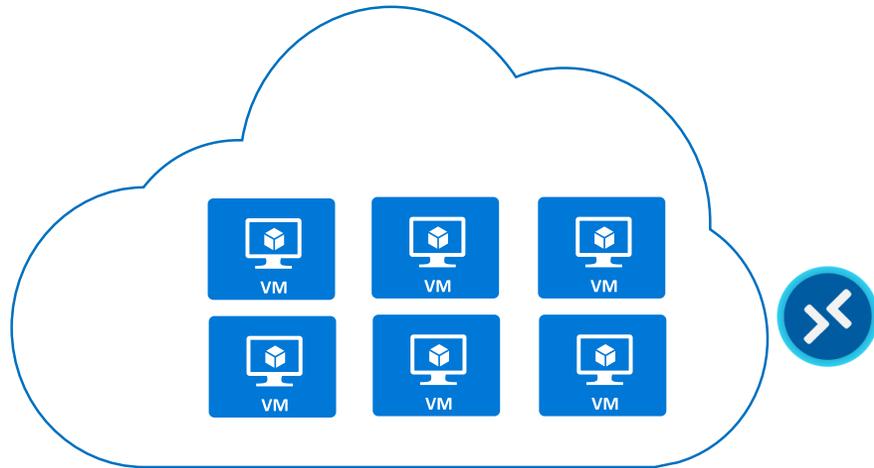
Examples:

- Only grant access to corporate apps and data if the device is marked compliant
- Require MFA to access an application
- Only grant access to M365 apps if the device is Entra hybrid joined

The screenshot displays the Microsoft Intune admin center interface. The main content area shows the configuration for a new Conditional Access policy named "Conditional Access for Contoso". The policy is currently set to "Grant access". Under the "Grant" section, the "Require device to be marked as compliant" option is checked. A warning message states: "Don't lock yourself out! Make sure that your device is compliant." Other options like "Require multifactor authentication", "Require authentication strength", "Require Microsoft Entra hybrid joined device", "Require approved client app", "Require app protection policy", and "Require password change" are currently unchecked. The "Enable policy" section at the bottom is set to "Report-only". A "Create" button is visible at the bottom left of the configuration area.

But Which Virtual Desktop?

Azure Virtual Desktop



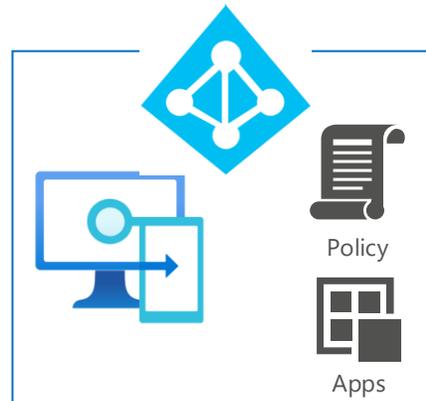
- Windows 10/11 multiseSSION and personal host pool capable environment
- Hosts can be Intune enrolled, greater flexibility
- Microsoft manages the Control Plane service
- Organisation owns/runs the host images in Organisation's Azure subscription
- Consumption based pricing



Windows 365



Microsoft
Intune



- Dedicated Windows PC in the cloud
- Running in Microsoft's subscription
- Managed from Intune
- Fixed per user/per month pricing

Temporary Contractor

Get started faster and easier from anywhere with a **Windows 365 Cloud PC**.



Brigette is a new remote contractor. She needs access to client resources for a short-term project.

Windows 365



She gets an email from IT with instructions to access **Windows 365** from a **BYO** device.



On Day 1 she has access to project apps and content **securely located in the cloud**.



Once the project is over, her access to **Windows 365 Cloud PC** can be **immediately turned off**.

No need provide or reclaim a corporate laptop

Hospital Ward

Azure Virtual Desktop provides instant session portability when moving between multiple devices



John is a specialist at XYZ Hospital, moves from ward-to-ward while seeing patients

Azure Virtual Desktop



John taps on to a thin client in cardiac ward and takes patient observations



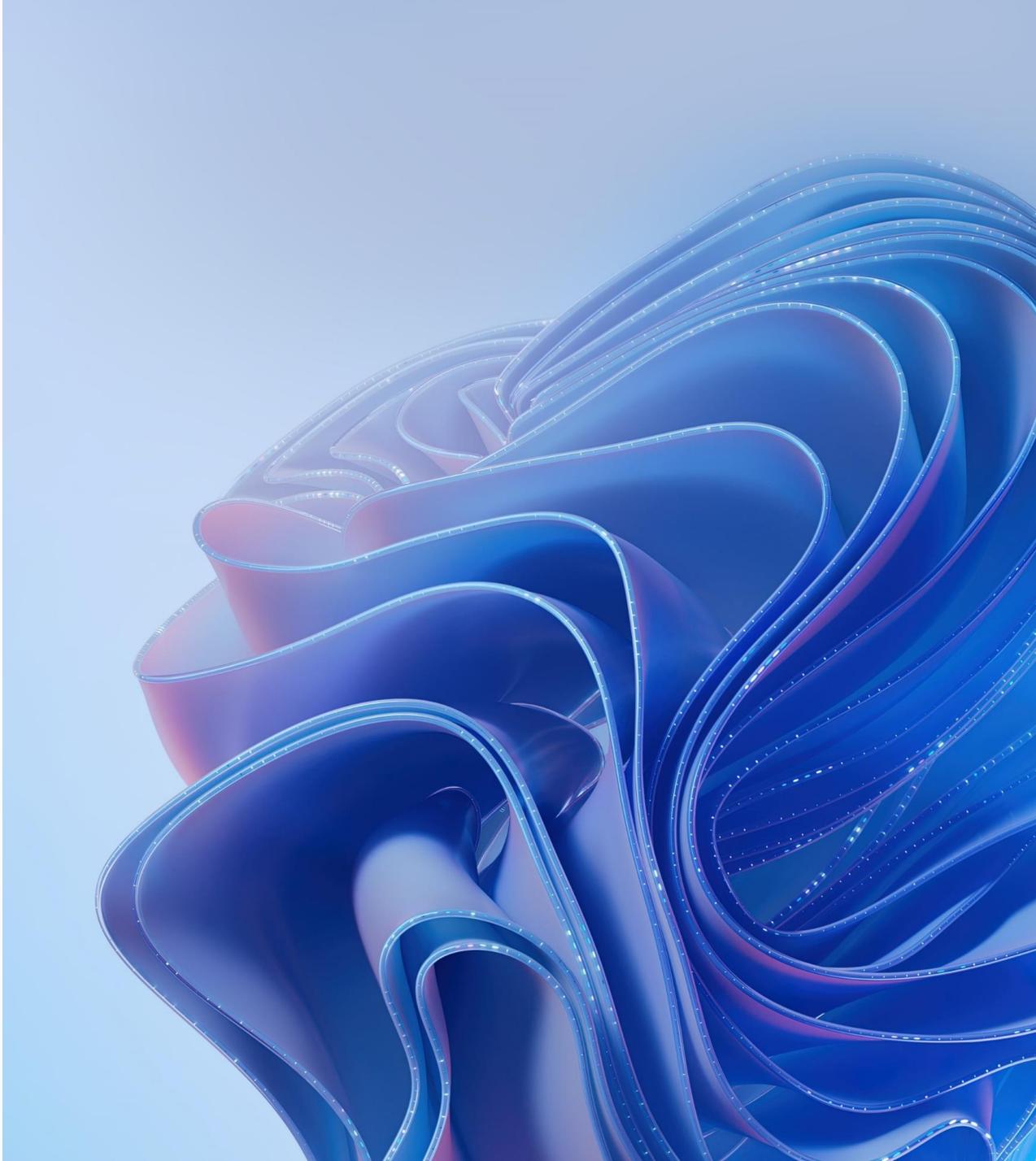
John then walk to another ward to see another patient, taps on to a different thin client terminal, and is presented with the same session he had in the other ward



Later returns to his clinic, can securely connect back into the same session he was using out on the wards



The next generation of Windows - Windows 365



Windows 11 delivery models work seamlessly with Microsoft cloud services



Integrated productivity, security and
management solution with Microsoft Intune



Microsoft 365 Apps



Microsoft Defender



Microsoft Entra ID



Microsoft Intune

Windows 365 Enterprise: 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 11

Windows 10

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

GPU*	16vCPU	8vCPU	4vCPU	2vCPU
4vCPU / 16GB / 4GB vRAM / 512 GB	64GB / 512GB	32GB / 128GB	16GB / 128GB	4GB / 64GB
8vCPU / 56GB / 12GB vRAM / 1TB	64GB / 1TB	32GB / 256GB	16GB / 256GB	4GB / 128GB
16vCPU / 110GB / 16GB vRAM / 1TB		32GB / 512GB	16GB / 512GB	8GB / 128GB
				8GB / 256GB

**Note that GPU is in public preview and due to capacity constraints, is limited and not all customers who sign up in the interest form will be accepted or accepted right away into the preview program.*



Compute is assigned Licenses Console

Microsoft Azure

Search resources, services, and docs (G+/)

Home > Licenses

Licenses | All products

Contoso - Microsoft Entra ID

« + Try / Buy + Assign Bills Columns Got feedback?

- Overview
- Diagnose and solve problems
- Manage
 - Licensed features
 - All products**
 - Self-service sign up products
- Activity
 - Audit logs
- Troubleshooting + Support
 - New support request

<input type="checkbox"/> Name	Total	Assigned	Available
<input type="checkbox"/> Microsoft 365 E5	25	20	5
<input type="checkbox"/> Microsoft Intune Suite	20	20	0
<input type="checkbox"/> Windows 365 Enterprise 2 vCPU, 4 GB, 128 GB	4	1	3
<input type="checkbox"/> Windows 365 Enterprise 2 vCPU, 8 GB, 256 GB	2	1	1

Overview **All Cloud PCs** Provisioning policies Custom images Azure network connection User settings

Refresh Export Columns Provide feedback

You can provision, configure, protect, and monitor your Cloud PCs. [Learn more about Cloud PC setup](#)

Failed 0 In grace period 0 Provisioned 0 Provisioned with warning 0 Provisioning 1 Not provisioned 2

Search Add filter

Showing 1 to 3 of 3 records

< Previous Page 1 of 1 Next >

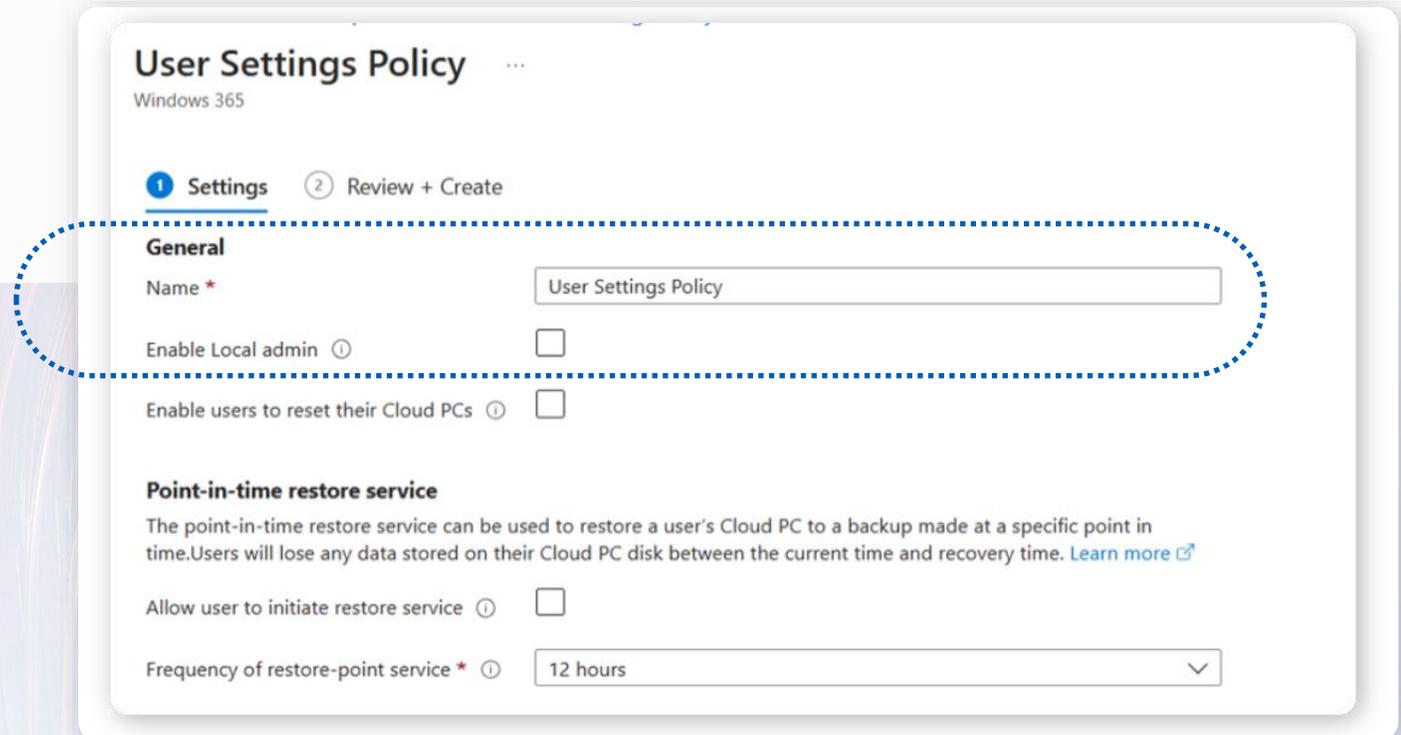
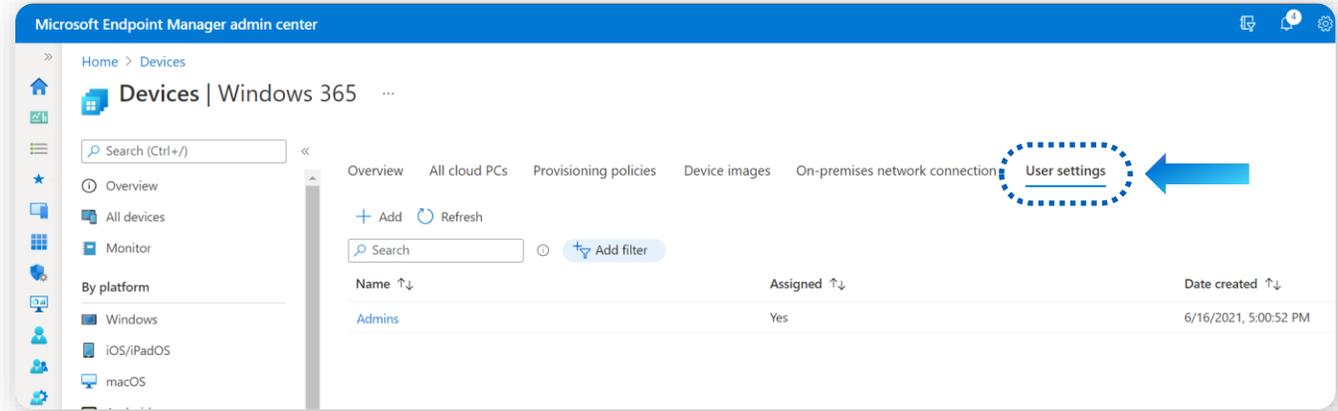
Device name	Provisioning policy	Image	Azure network	PC type	Status	User
Not provisioned	Cloud PC Provisioning ...	Windows 11 Enterpris...		Cloud PC Enterprise 2vCPU/4GB/128GB	Provisioning	AllanD@M365t23734370...

Enable Local Admin

Users are **Standard Users** by default

Can deploy a policy to a group of Users

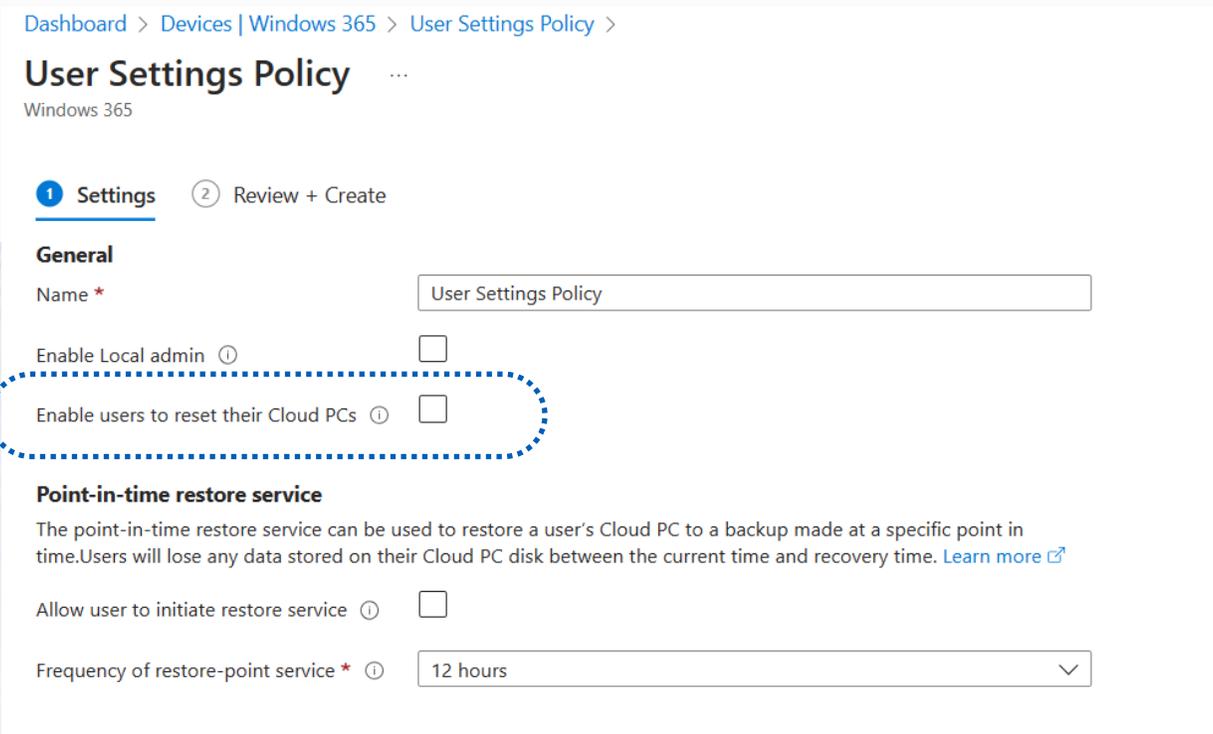
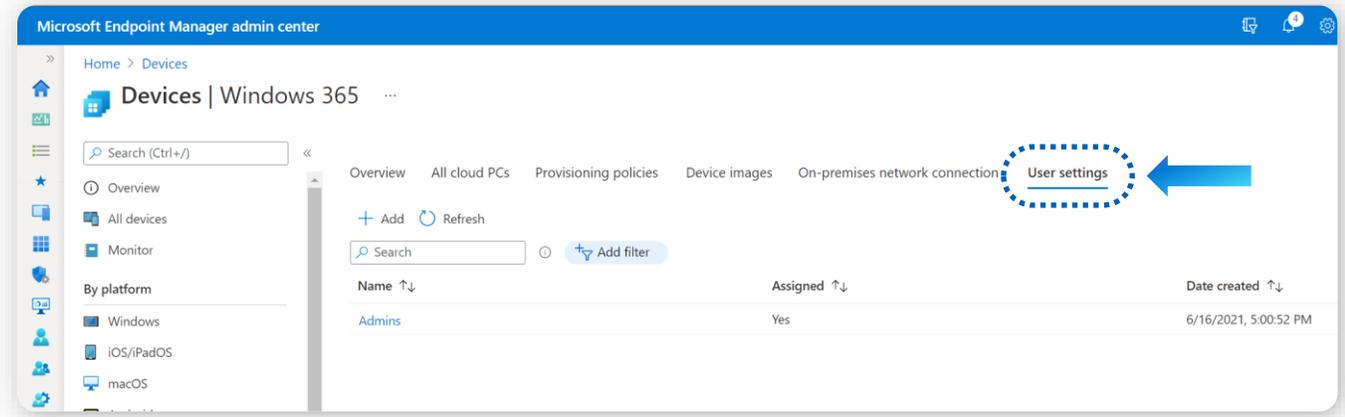
User becomes a **Local Admin** on only their Cloud PC



Enable Users to Reset their Cloud PC

Users can reset their own Cloud PC

Users Cloud PC is wiped and automatically reprovisioned, when user initiates from Windows 365 App or Web Portal

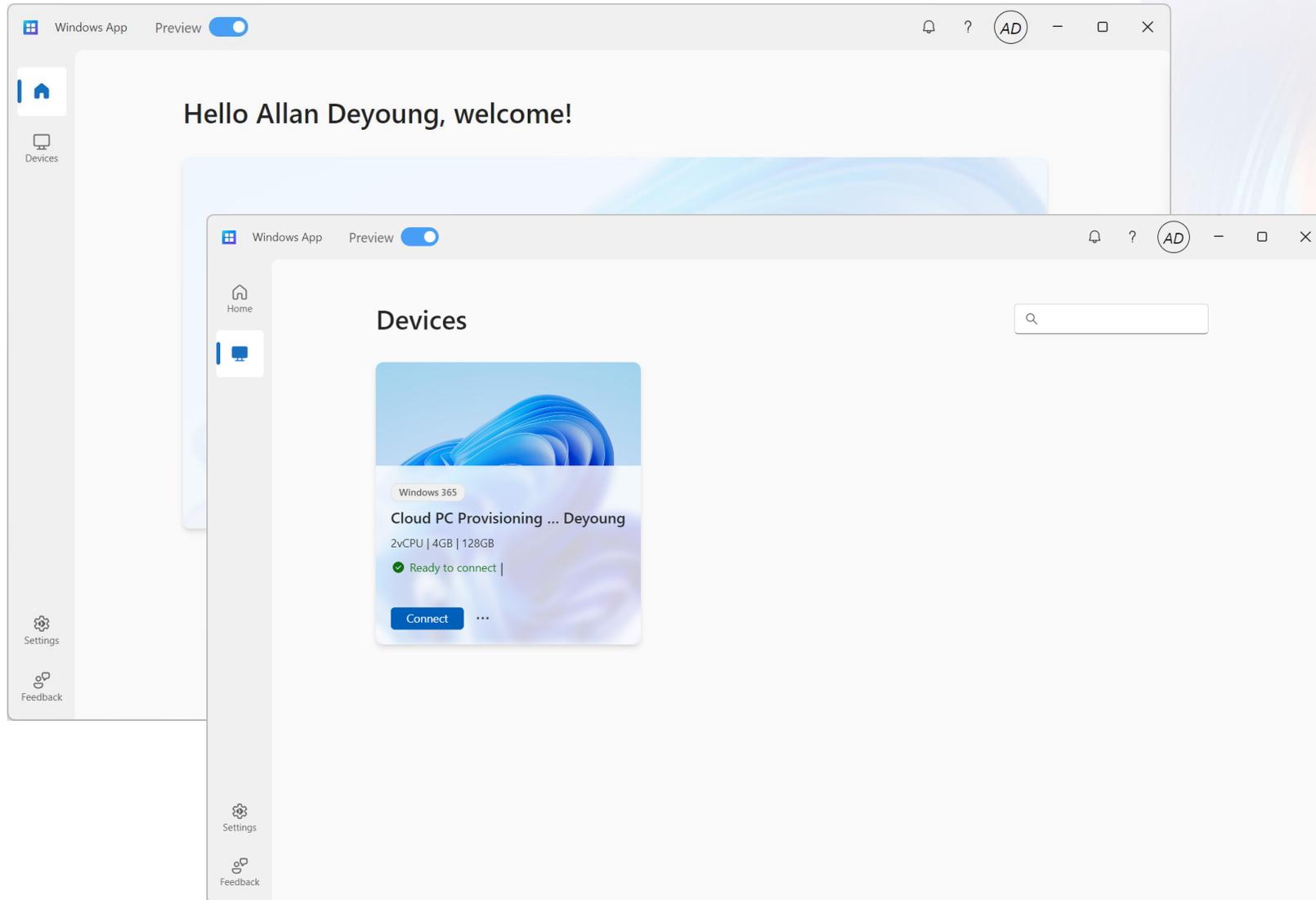


Access from any Browser

This screenshot shows the Windows 365 user dashboard in a browser window. The browser address bar shows <https://windows365.microsoft.com>. The page header includes the user's name, "Allan Deyoung", and a navigation menu. A notification banner at the top states: "Windows App is the new way to connect all of your cloud and remote resources. Try it now." Below this, a "Welcome, Allan Deyoung" message is followed by "Quick actions" which include "Install the Windows 365 app" and "Take the tour". The main section, "Your Cloud PCs", features a "Cloud PC Provisioning Policy" card with details: "Last connected 23 hours ago", "Windows 11", "2 vCPU", "4 GB RAM", and "128 GB Storage". A blue callout box next to it says "Your Cloud PC is ready for you" and "It has all the apps you need, with no additional setup." An "Open in browser" button is located at the bottom of the card.

This screenshot shows the Windows 365 app download page in a browser window. The browser address bar shows <https://windows365.microsoft.com>. The page header includes the user's name, "Allan Deyoung", and a navigation menu. The main heading is "Download an app to use Windows 365 from your device". Below this, the "Windows 365 app" section includes the text: "Use your Cloud PC like another desktop on your local PC. Manage your Cloud PC using the self-serve tools built into the app." A card for "Windows 365 for Windows" by Microsoft Corporation features a "Go to Microsoft Store" button. The "Microsoft Remote Desktop apps" section includes the text: "Connect to devices and services, including your Cloud PC. You won't be able to manage your Cloud PC from the app, and your Cloud PC won't be integrated into your local device." This section contains four cards for different operating systems: "Microsoft Remote Desktop for Windows" (with "Get subscription URL" and "Download 64 bit" options), "Microsoft Remote Desktop for Mac" (with "Get subscription URL" and "Go to Mac App Store" options), "Microsoft Remote Desktop for iOS" (with "Get subscription URL" and "Go to App Store" options), and "Microsoft Remote Desktop for Android" (with "Get subscription URL" and "Go to Google Play Store" options).

New: Windows App (Preview)



- Will be available from Microsoft, Apple and Google store
- Will show assigned:
 - W365 Cloud PC
 - AVD RemoteApp
 - AVD Desktop
 - Dev Box

Windows 365 Boot

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

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)
- Windows 365 Cloud PC license



Windows 365 Switch

Switch between your local and Cloud PC from the Windows 11 Task view

Windows 365 Switch makes it possible to move between your local PC and Windows 365 Cloud PC using the Windows 11 Task view functionality.

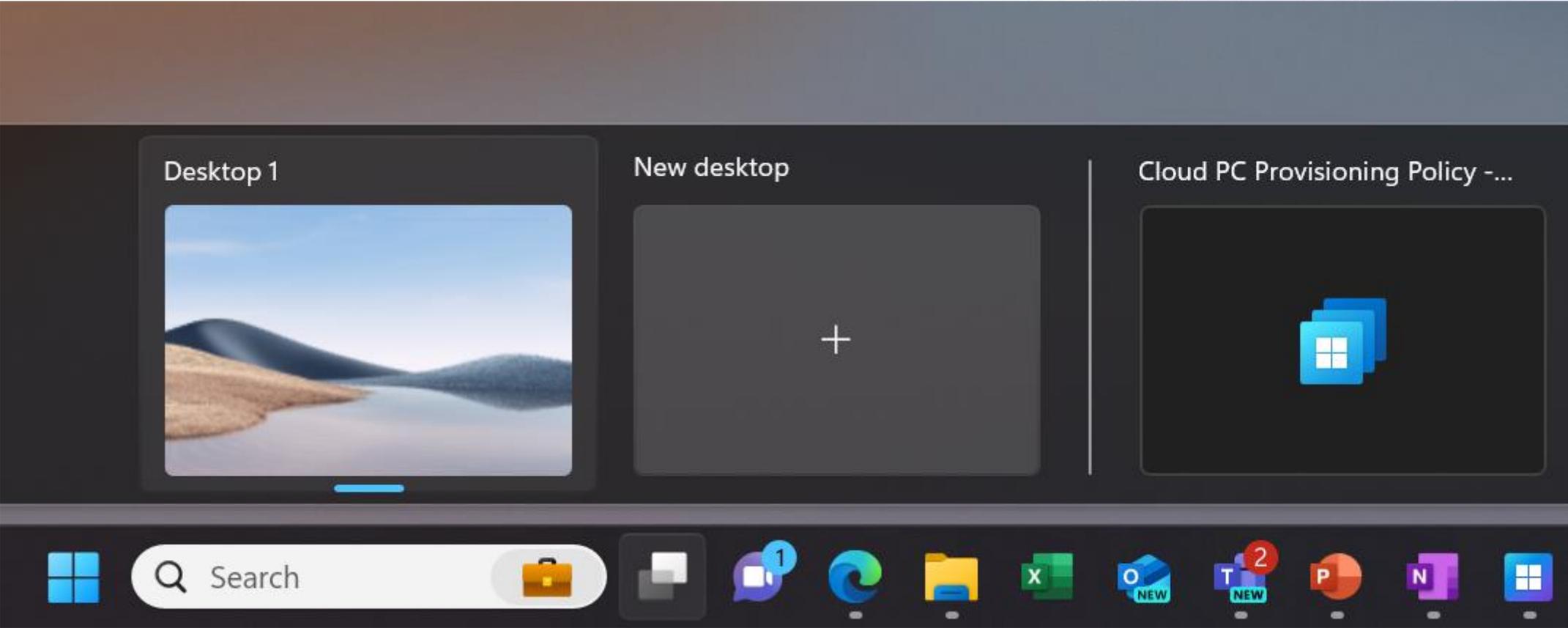
This new feature is extremely valuable for bring-your-own PC (BYOPC) scenarios, allowing you to connect securely from your own Windows device to a company-owned Cloud PC.

Requirements to enable Windows 365 Switch

- Windows 11-based endpoints (Windows 11 Pro and Enterprise)
- Update to the latest Windows OS Build on your Cloud PC, Windows 11 Enterprise or Professional, version 22621.2361 or later
- Update to the latest Windows OS Build on your physical device, Windows 11 Enterprise or Professional, version 22621.2361 or later
- Windows 365 Cloud PC license



Windows 365 Switch



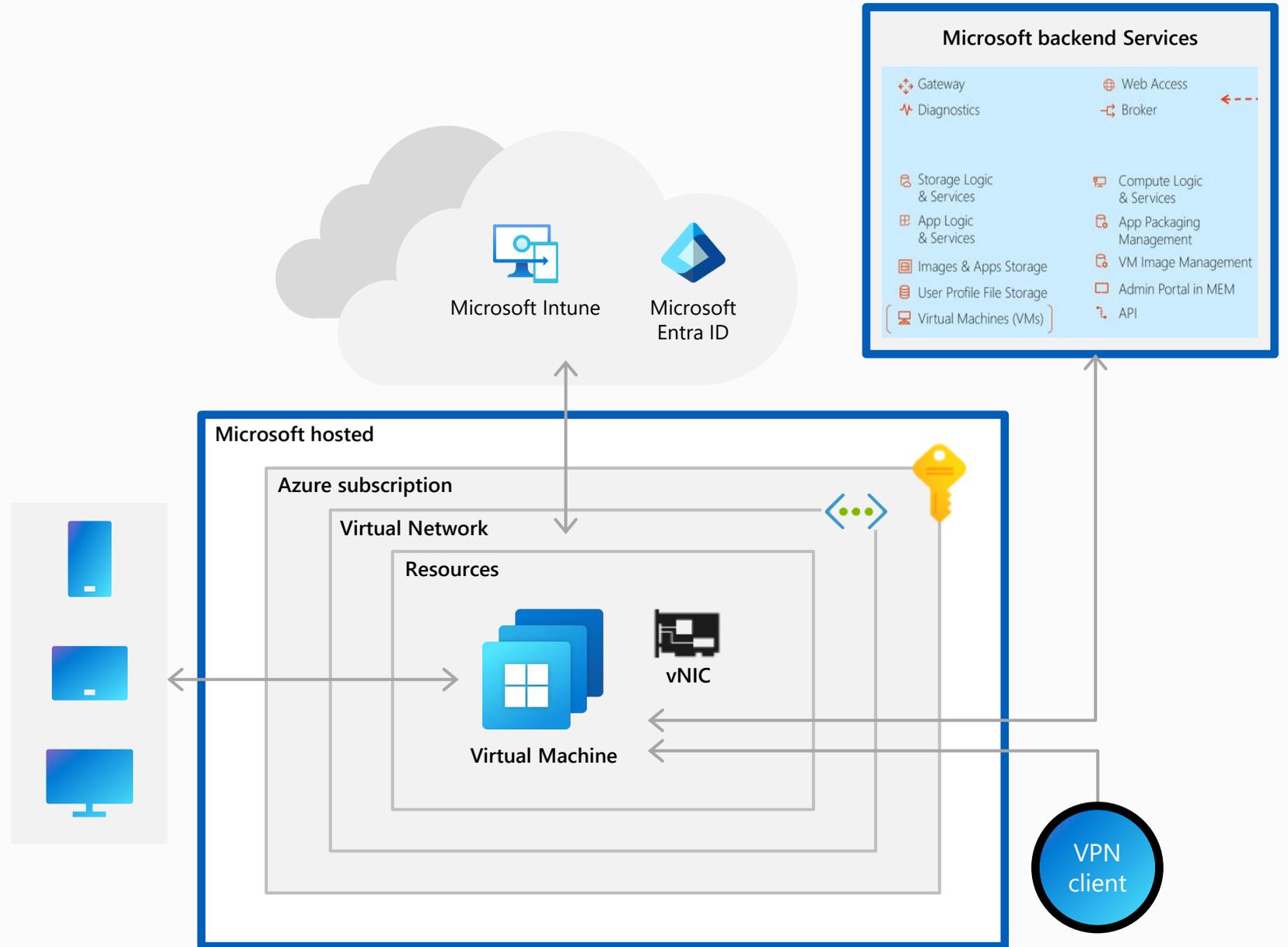
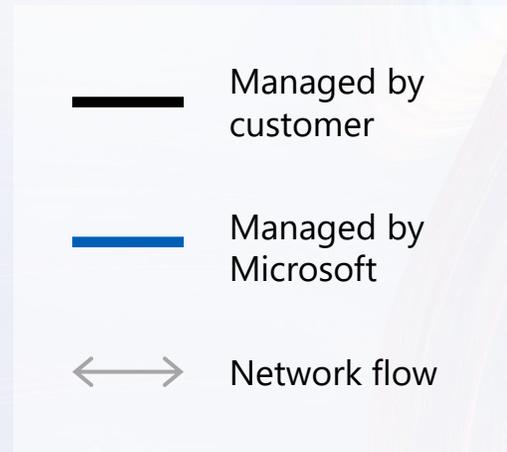


Windows 365 Architectures



Windows 365 – Microsoft Entra Join

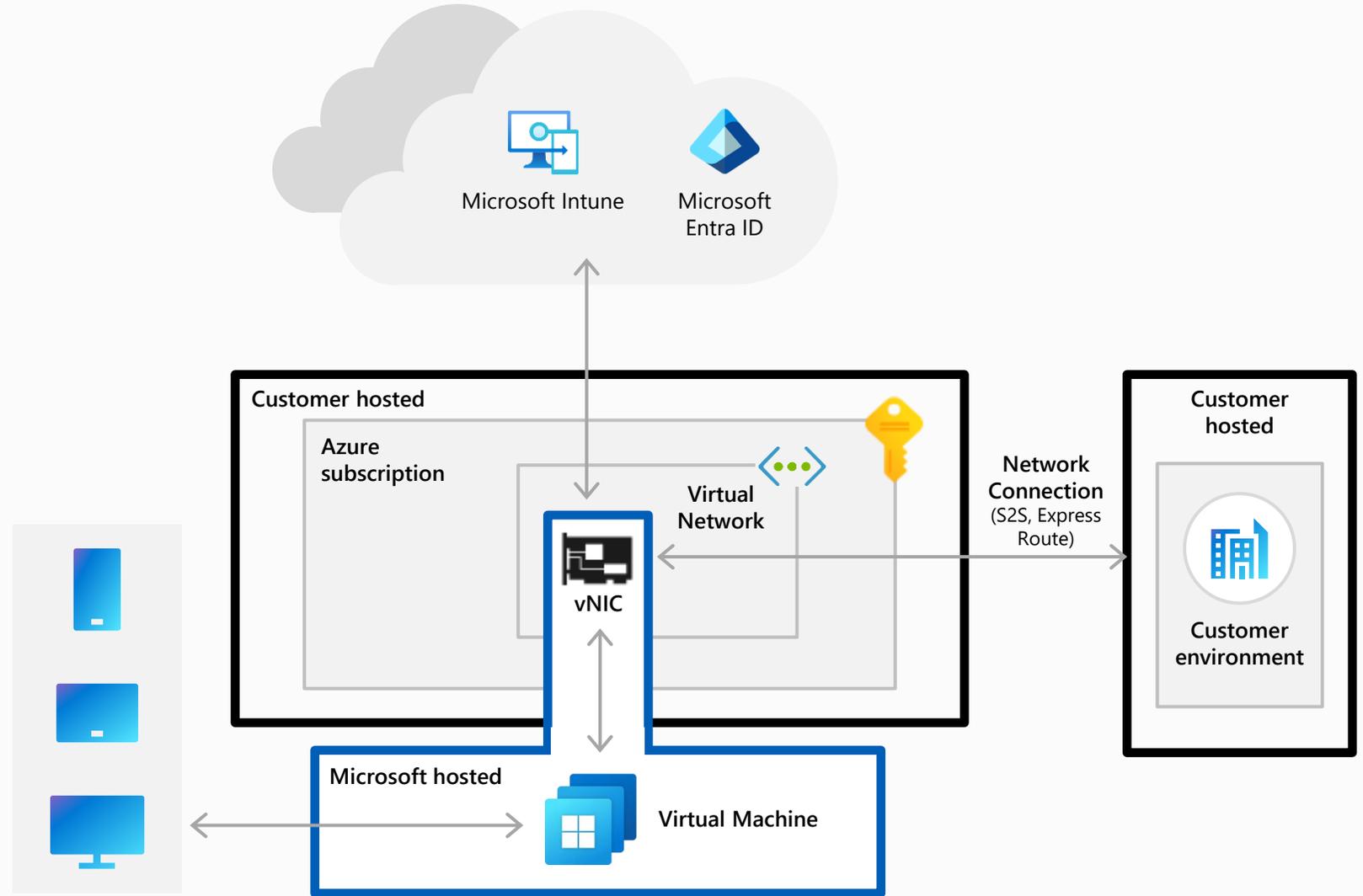
1 Microsoft Hosted Network



Windows 365 – Microsoft Entra Join

2 Network Connection ("Bring Your Own Network")

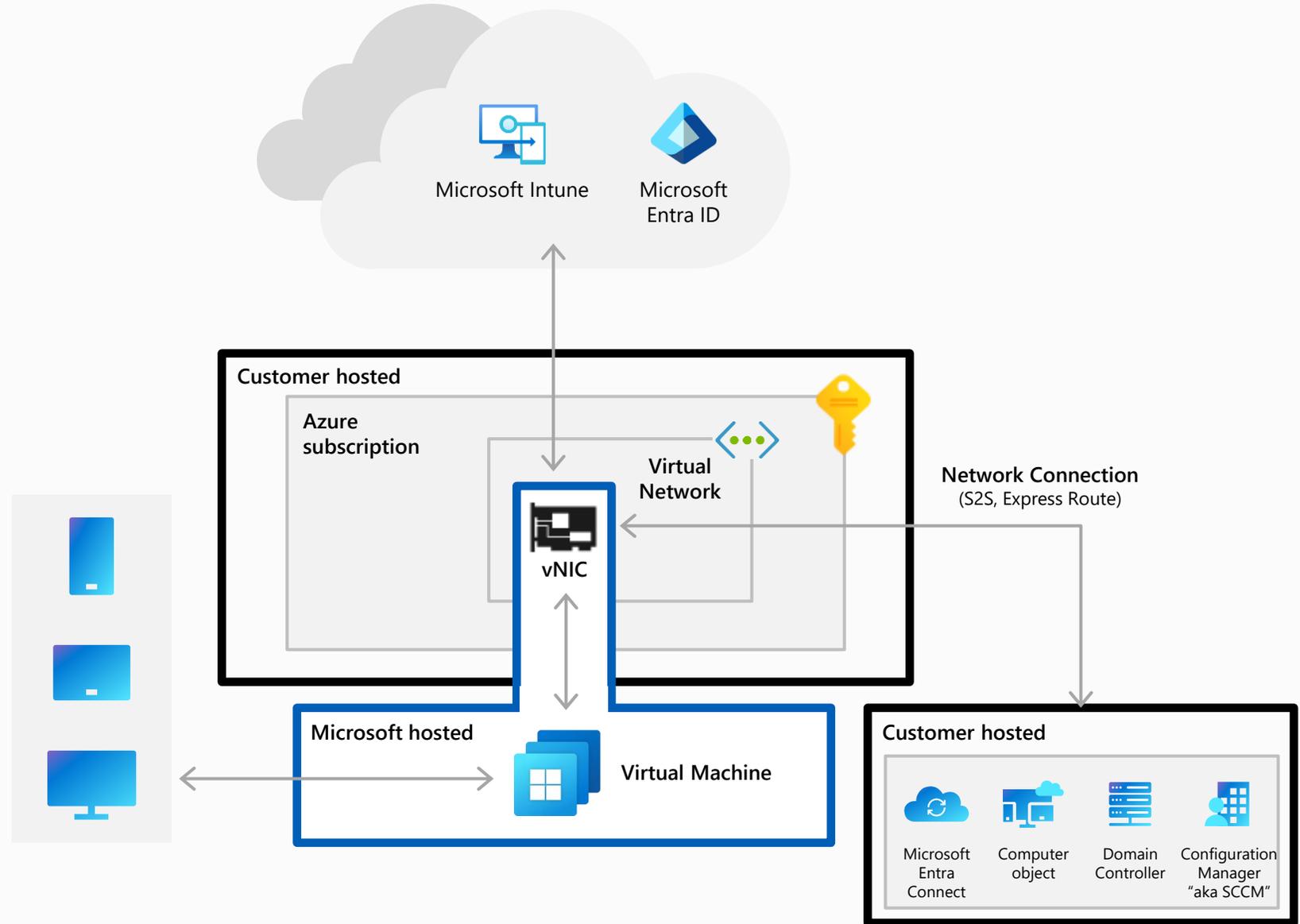
-  Managed by customer
-  Managed by Microsoft
-  Network flow



Windows 365 – Microsoft Entra Hybrid Join

3 Network Connection ("Bring Your Own Network")

-  Managed by customer
-  Managed by Microsoft
-  Network flow



Amazing Internet Speed



SPEEDTEST

PING

15

ms

DOWNLOAD

1,071.4

Mbps



JITTER

2

ms

UPLOAD

1,218.9

Mbps



Fort Dodge Fiber
Fort Dodge, IA

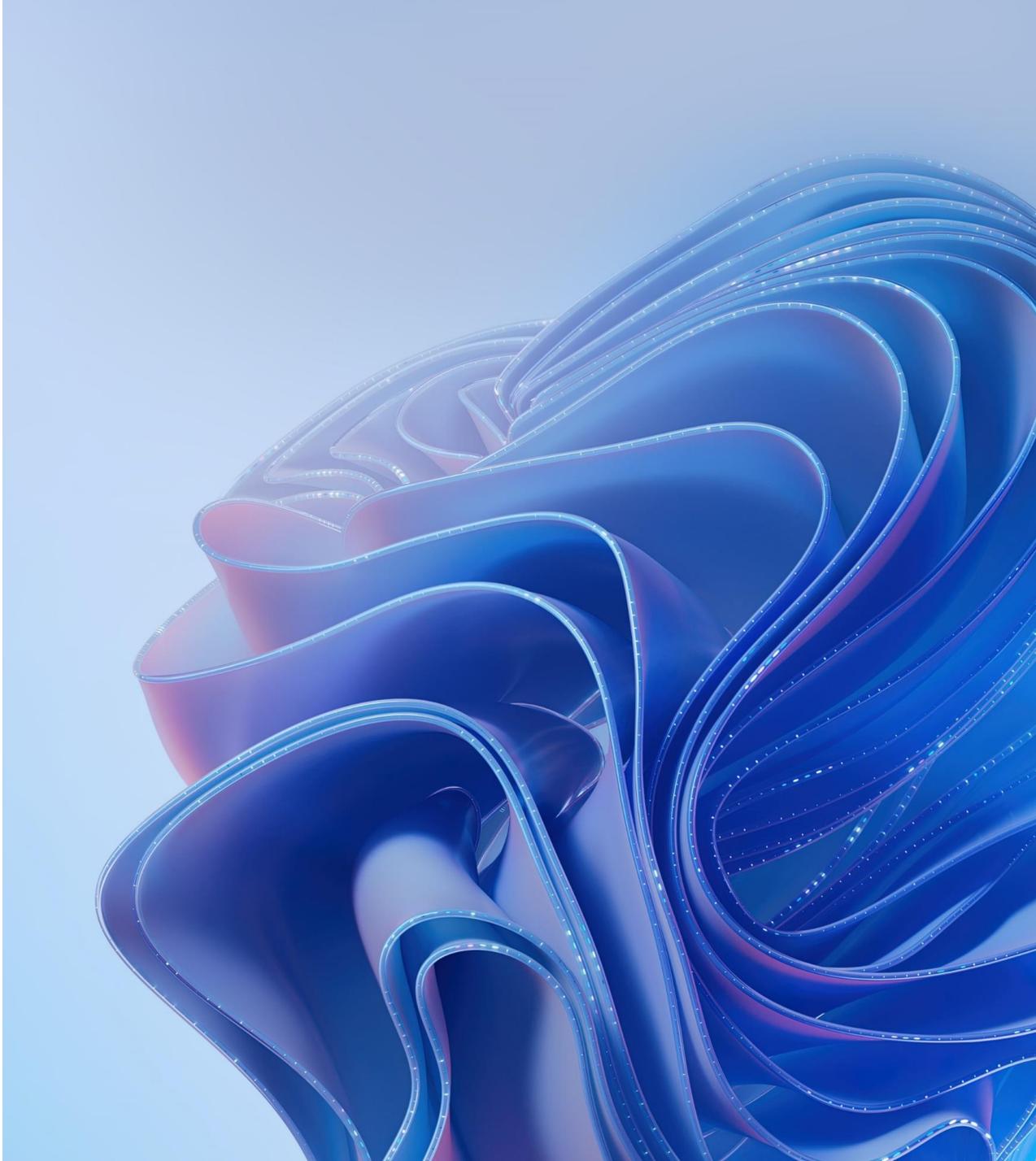
Microsoft Azure
40.78.170.198

Fort Dodge Fiber
Fort Dodge, IA



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Azure Virtual Desktop Multisession AND Personal Windows 11



Azure Virtual Desktop benefits

- ✓ Enables a multi-session or personal Windows 11 experience, optimized for Office 365 ProPlus
- ✓ Provide for high-end compute
- ✓ Supports Windows Server (2016+)
- ✓ RemoteApp support
- ✓ Store or custom image
- ✓ Highly elastic and scalable

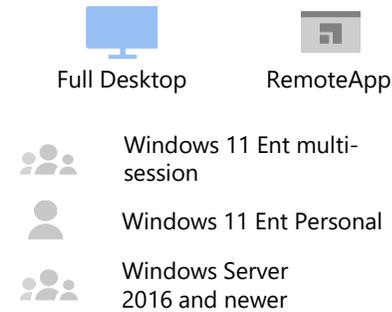


High-level service architecture

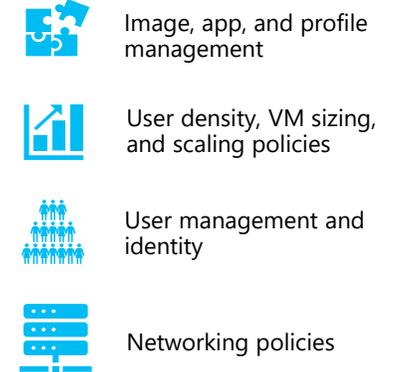
- Organisation managed – Desktop image / Apps/ Management / User Policies
- Microsoft managed – Virtualization infrastructure and service
- Can connect to on-premises resources via ExpressRoute or VPN
- User authentication using Entra ID identities
- Supports Microsoft Intune management
- Supports devices running non-Windows operating systems with Linux thin-client SDK and other tools

Your subscription—your control

Desktops and remote apps



Management and policies



Managed by Microsoft

Windows Virtual Desktop Service



Infrastructure



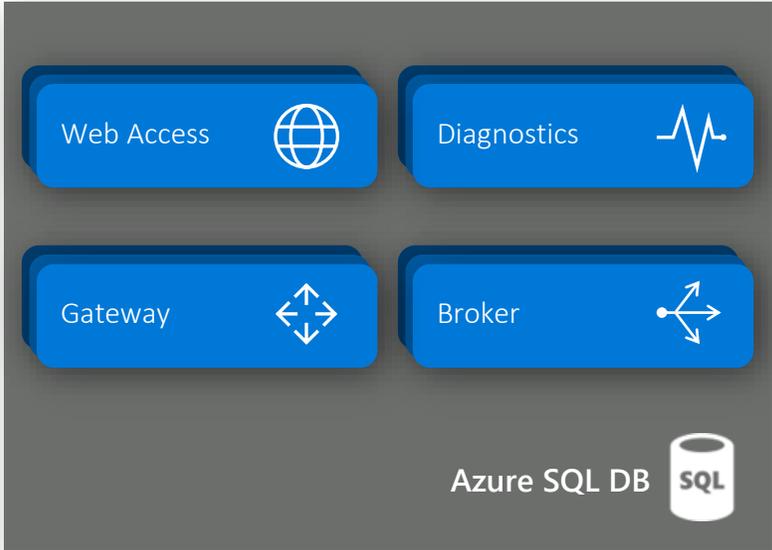
AVD with Intune Management

Company or Staff Owned Device



FIREWALL

Azure Virtual Desktop
Microsoft-managed Azure services



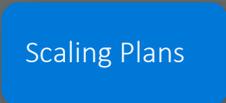
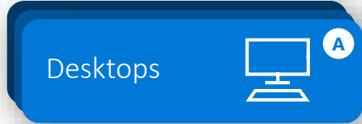
FIREWALL

Organisation-managed
Azure VMs & services



Entra ID

VMs



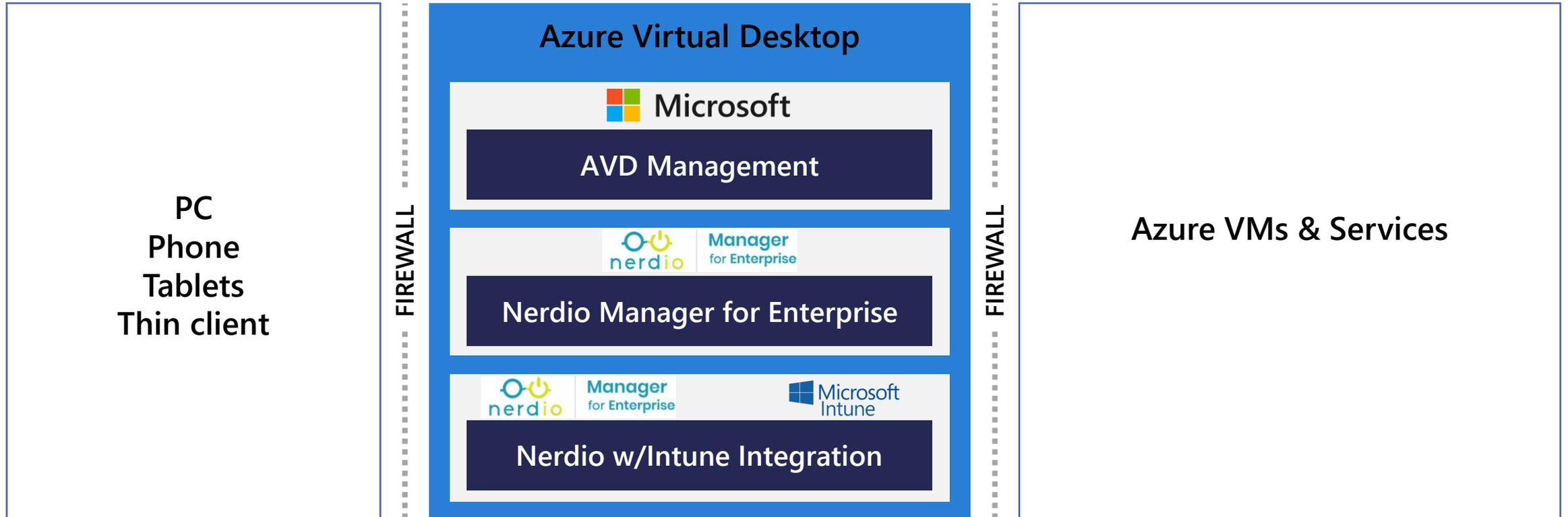
AVD Management



Microsoft Intune

Additional Management Options

Add additional management for complex scenarios



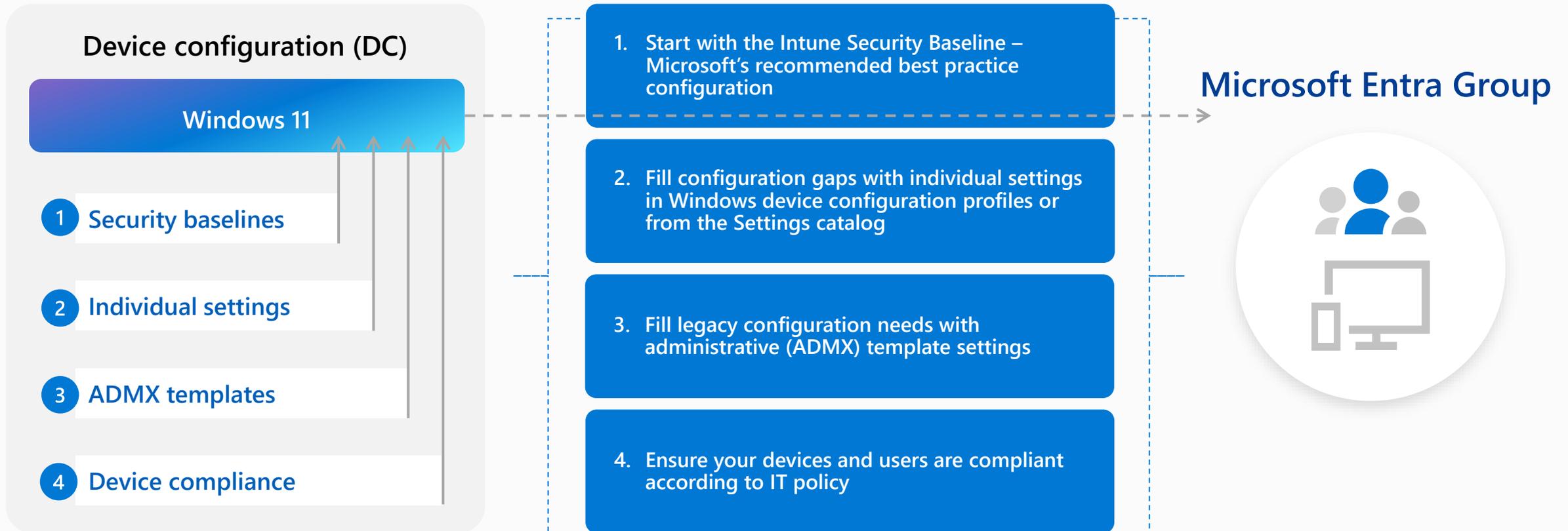
Security Considerations



Approaches to Securing Windows 11 with Intune

1. Most common: Use the Security Baselines as a starting point
2. Specific: E8 / CIS / Other Benchmark - Scan first then remediate
3. Government: ASD's Blueprint for Secure Cloud

Approach for using Security Baselines



Microsoft Defender for Endpoint

Microsoft Defender for Endpoint also supports Windows 365 Cloud PC

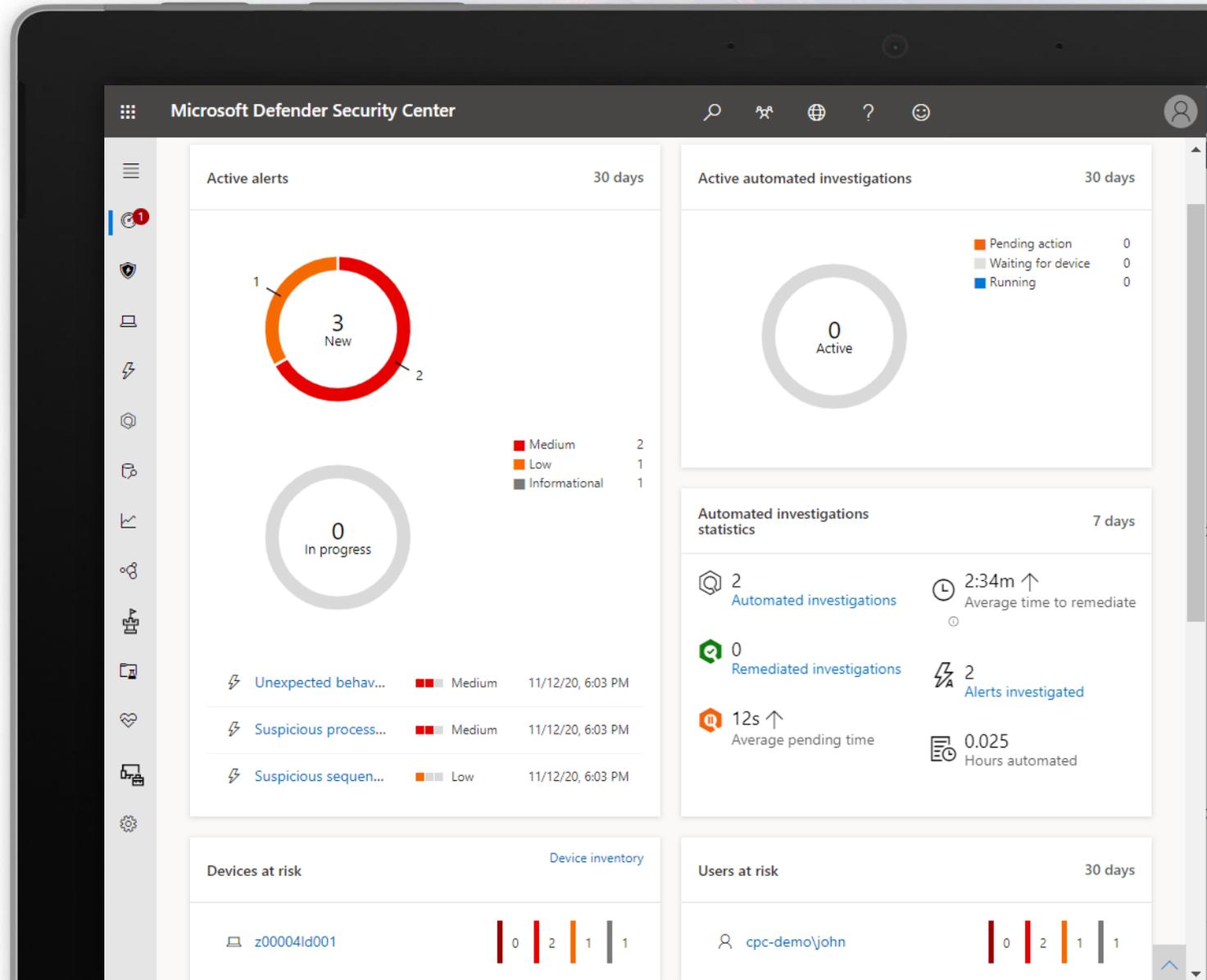
Next-generation antivirus

Endpoint detection and response

Attack Surface Reduction

Threat vulnerability management

Risk Score based compliance



Questions

Call to Action – Windows 365 Pilot

- Planning – Windows 365 Overview & Pilot design, Deployment overview & planning
- Enable – Design decisions, remediations checklist, pilot deployment, User training & adoption
- Grow – Operations overview, Windows autopatch overview, next steps

Available Funding - \$20K

Call to Action – Windows 11 PoC

- Assessment – Current state, devices, Intune review, Windows 11 overview
- Intune Ready – Configure Intune
- Packaging – Package M365 Apps to deploy to Windows 11 devices
- Deployment – Bitlocker/OneDrive setup, 25 Win11 devices deployed
- Optional Adoption – Search, hotkeys, Virtual desktop, touchpad gestures

Available Funding - USD\$15K



JuiceIT 2024

Data#3

Data#3



data3.com



1300 23 28 23



[Linkedin.com/company/data3](https://www.linkedin.com/company/data3)



[Twitter.com/data3limited](https://twitter.com/data3limited)



[Facebook.com/data3limited](https://www.facebook.com/data3limited)



[YouTube.com/data3limited](https://www.youtube.com/data3limited)

A large, illuminated blue sign on the side of a modern white building with a glass facade. The sign reads "Data #3" in a bold, sans-serif font. The building is set against a clear blue sky.

Data #3