



# Windows 11 Enterprise

Integrated with Microsoft 365

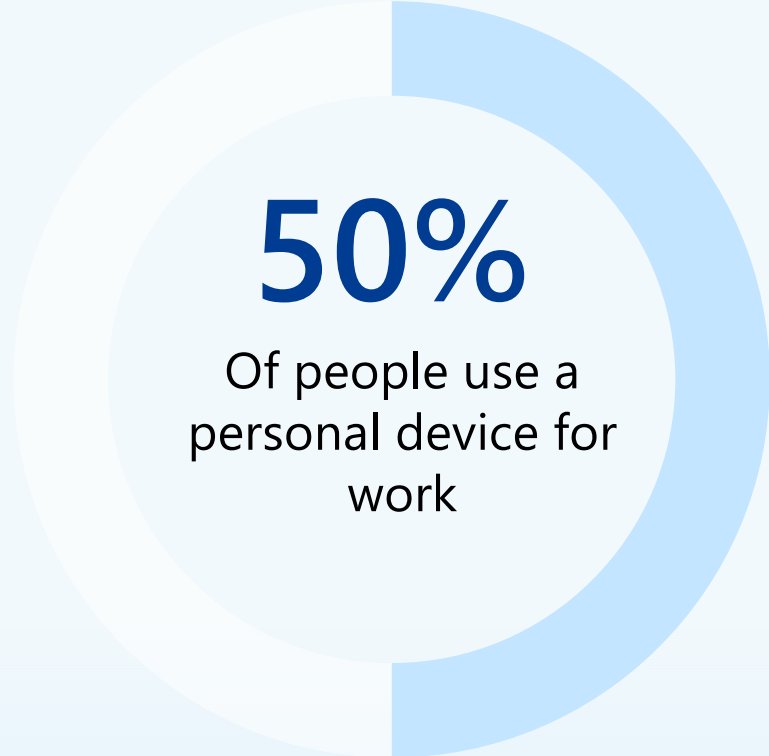
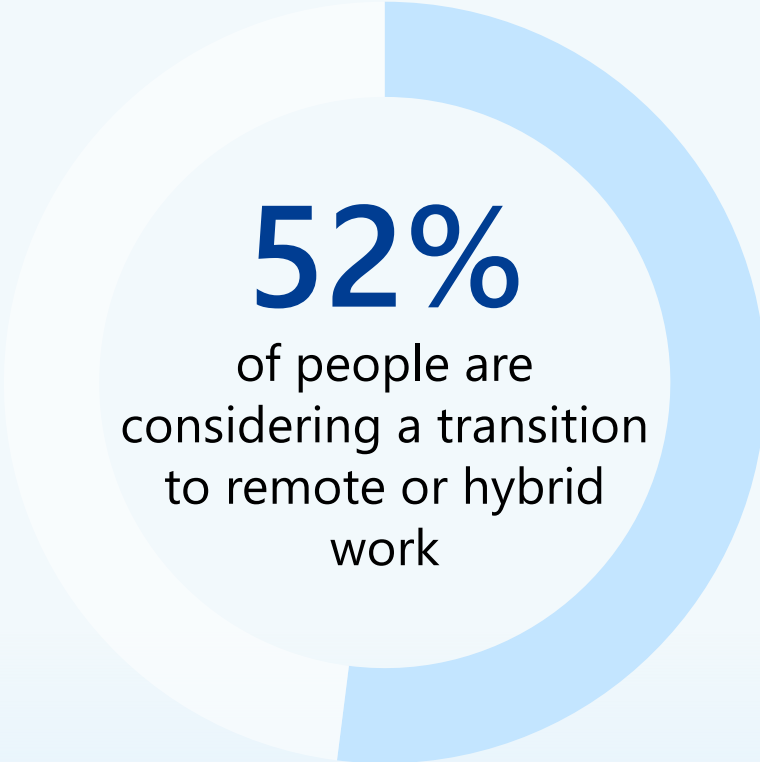
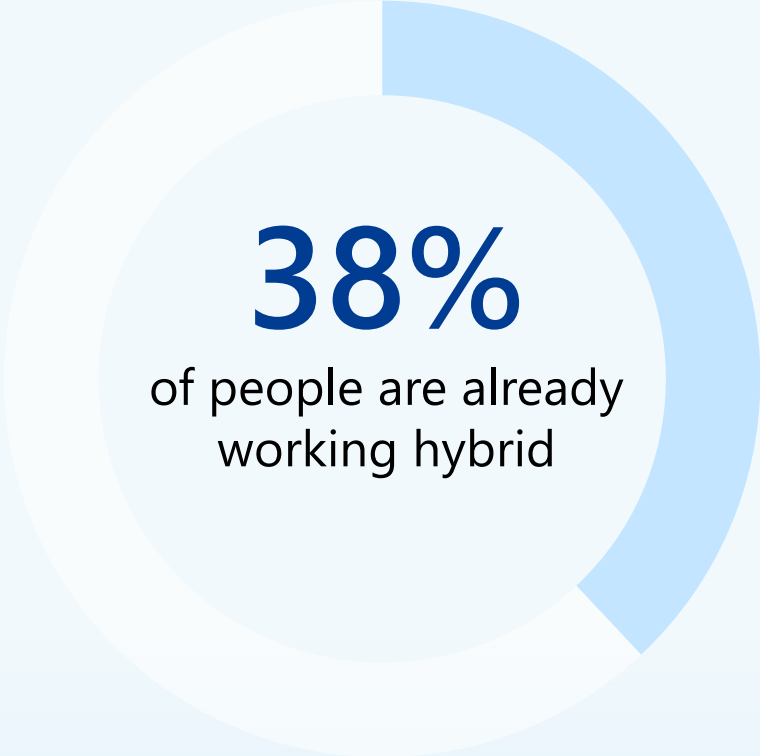
Attackers haven't wasted any time capitalizing on the rapid move to hybrid work. Every day, cybercriminals and nation-states alike have improved their targeting, speed, and accuracy as the world adapted to working outside the office.



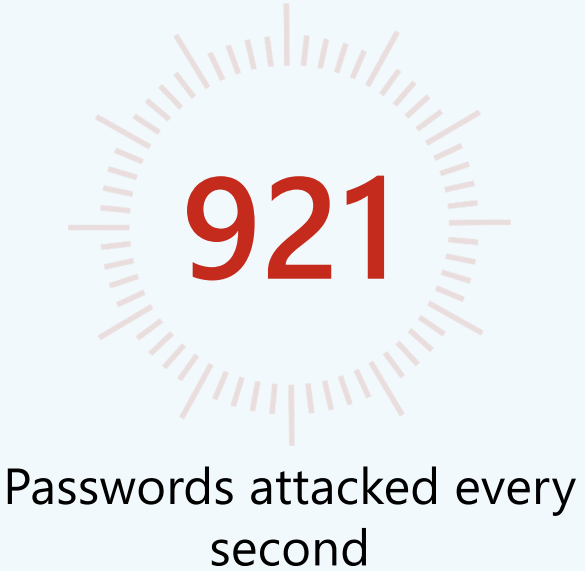
**David Weston**

VP, Microsoft Enterprise and OS Security

The world of hybrid work is evolving...



And so are the threats and challenges...





How do you secure your distributed endpoints?



How do you reduce the complexity of IT workloads?



How do you ensure protection while enabling workforce flexibility and productivity?

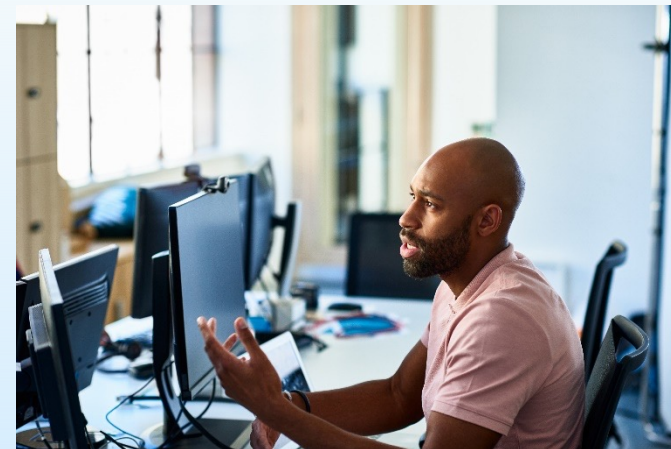
Technology must allow us to stay connected and productive while at the same time reinforcing our security posture in an increasing sophisticated and complex world.

Windows 11 was built to help employees and teams focus on what is important: **get the job done** and **efficiently communicate and collaborate**.

Windows 11 is smart about how to achieve these goals that are so important for a hybrid workstyle.

Windows 11 is an evolution of Windows 10. It is **fresh, but also consistent**, for your employees and IT.

Windows 11 delivers the **security and management** needed for hybrid work and can be **deployed alongside** Windows 10 devices without interrupting the business.







**Security by default** from  
chip to cloud

Secure your corporate data,  
content, apps, and people



**Simplify IT** management

Streamline deployment and  
management for a distributed  
workforce



Power **exceptional**  
**experiences**

Empower flexible workstyles and  
smarter work

**Windows 11 Enterprise is built to protect your hybrid workforce**



Security by default from  
chip to cloud

Secure your people,  
data, and devices



## Security by default

In Windows 11, hardware and software security work together to help keep people, data, and devices protected.

- Protects out-of-the-box with security controls **on by default**.
- Protects against threats with **hardware root-of-trust** for powerful security from the start.
- **Protects identities** with passwordless security.
- Delivers **robust application security** and prevents execution of unverified apps.



## Modernize your endpoints

## Raising the bar for security

### Scenario

At Contoso Inc., all employees transitioned to a hybrid work environment and need a laptop. Allen, the IT administrator, wants to migrate everyone to Windows 11 Enterprise, but new laptops will be delivered with Windows 11 Pro.

### How you can do it

- Follow Windows 11 [minimum hardware requirements](#).
- Choose [Secure Core PCs](#) with Microsoft Pluton targeted personae and industries.

### Why it matters

[Windows 11 raises the bar for security](#) by requiring hardware that can enable protections like Windows Hello, Device Encryption, virtualization-based security (VBS), hypervisor-protected code integrity (HVCI) and Secure Boot.

*["86% of Security Decision Makers agree outdated PC hardware leaves organizations more vulnerable."](#)*

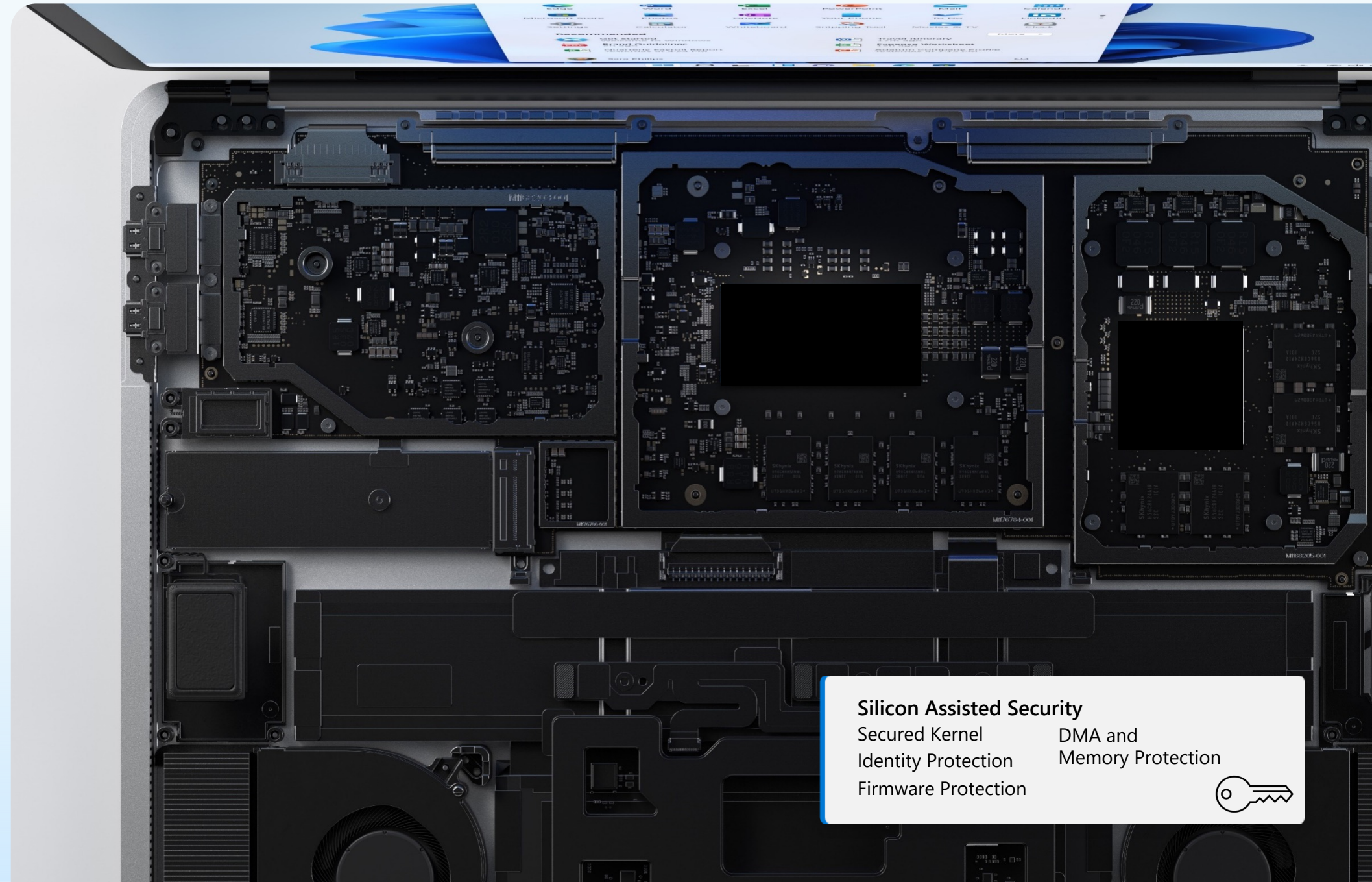
Security Decision Maker Study

## Raising the bar for security Hardware Root-of-Trust

A powerful combination of hardware root-of-trust and silicon-assisted security.

- Protects and maintains system integrity as the firmware loads.
  - Strengthens security for features like Windows Hello and BitLocker with TPM 2.0.
  - Protects code integrity and critical information with virtualization-based security (VBS).
- ★ Enables virtualization-based security (VBS) and hypervisor-protected code integrity (HVCI)
- WE3** Has Credential Guard **on by default**

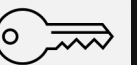
★ New **E3** Exclusive to Windows Enterprise E3



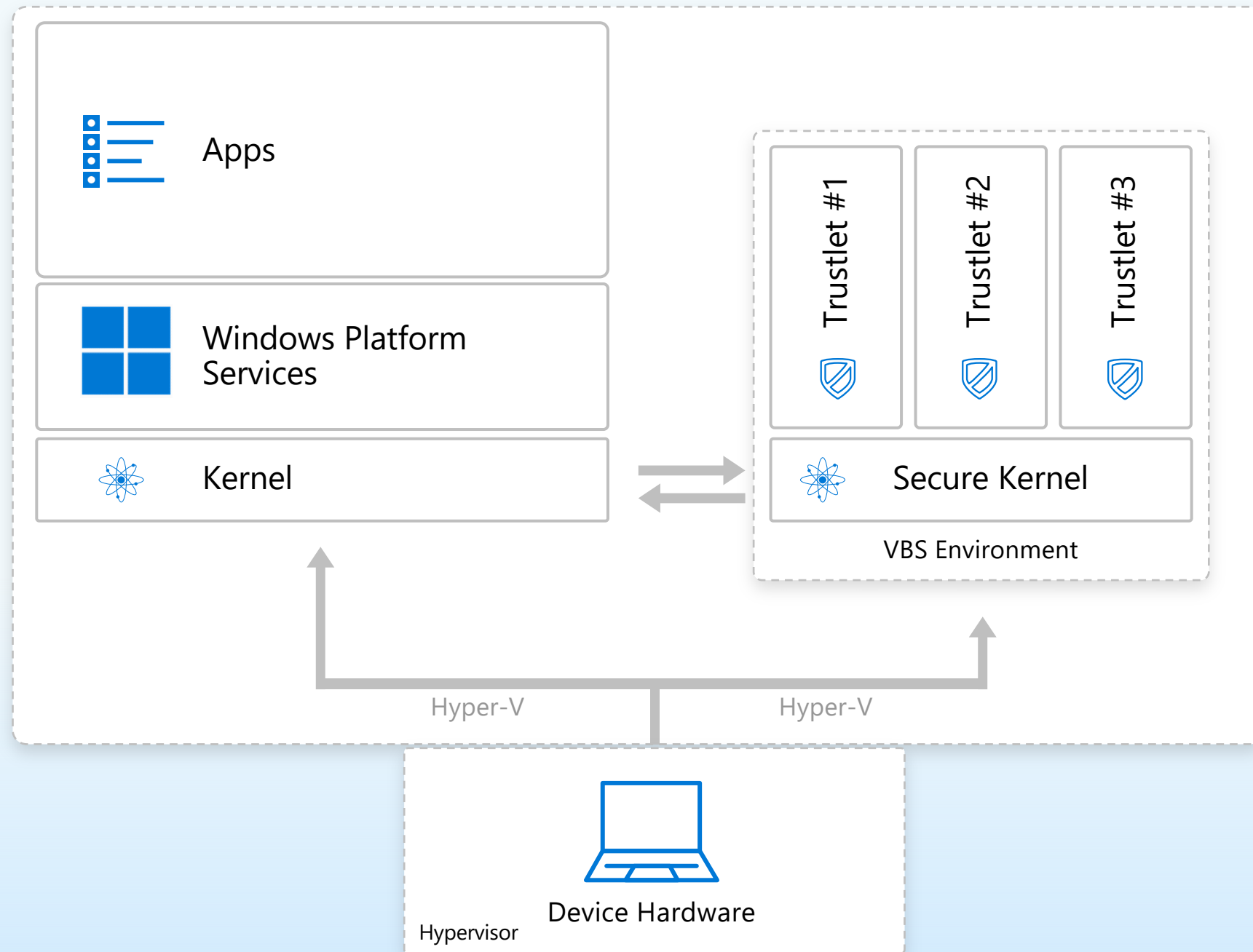
### Silicon Assisted Security

Secured Kernel  
Identity Protection  
Firmware Protection

DMA and  
Memory Protection



# Raising the bar for security **Virtualization based security**



## Modernize your endpoints    Establishing a supported and reliable state

### Scenario

At Contoso Inc., new laptops will be running Windows 11 from the start, but Windows 10 laptops need to be upgraded. Allen investigates which PCs can run Windows 11. The migration will also establish a company-wide security baseline for endpoints.

### How you can do it

- Use [Endpoint Analytics Upgrade Readiness](#)
- Implement [a security baseline across all Windows devices](#) in your estate and monitor drift with Microsoft Intune.<sup>1</sup>

### Why it matters

Devices upgraded to Windows 11 will be in a supported and reliable state. CPUs that have adopted the new Windows Driver model and are supported by device manufacturers and silicon partners, achieve a 99.8% crash free experience.

*“Windows 11 is built for the hybrid way of working. It’s built for the hybrid IT infrastructure, and it’s built to allow organizations to choose their path for the future of work.”*

Simon Binder, Digital Workplace Architect, Telia Cygate AB

<sup>2</sup> Windows 11 Enterprise enables a security policy baseline, that can be implemented using Microsoft Intune sold separately; baseline can also be established with 3<sup>rd</sup> party MDM systems.

# Establishing a supported and reliable state Upgrade Readiness Reports

- Create inventory of eligible PCs to upgrade to Windows 11.
- Select devices compliant with Windows 11 hardware requirements, including TPM 2.0.
- Check app compatibility with upgrade readiness reporting.

WE3 Endpoint analytics Upgrade Readiness Reports:

Windows feature update device readiness report  
 Windows feature update compatibility risks report

**Microsoft Endpoint Manager admin center**

Home > Reports > **Windows feature update device readiness report (Preview)**

Columns Export

Enable Windows diagnostic data at the required level or higher to view feature update readiness insights for your devices. [Learn more.](#)

Report generated on: 5/26/2022, 3:37:15 PM

**8.3k** DEVICES

Low risk	2,685 devices
Medium risk	112 devices
High risk	24 devices
Replace device	3,699 devices
Upgraded	1,818 devices
Unknown	0 devices
<b>Total</b>	<b>8,338 devices</b>

Target OS: Windows 11 - version 21H2  
 Scope (Tags): Default  
 Ownership: All  
 Readiness status: 5 selected

Generate again Cancel

Search by device name, Intune device ID or Azure AD device ID

Showing 1 to 50 of 8,338 records

Device Name	Manufacturer	Model	OS Version	Readiness status	Sys req issues	App issues
DEVICE01	LENOVO	30BFS9C900	10.0.19044.1706	Low risk		0
DEVICE02	LENOVO	20HJS01F00	10.0.19044.1645	Replace device	Processor family check	0
DEVICE03	Dell Inc.	Precision 7550	10.0.22000.675	Upgraded		0
DEVICE04	Microsoft Corporation	Surface Laptop	10.0.22598.200	Upgraded		0
DEVICE05	LENOVO	20LGS03Q3D	10.0.22000.556	Upgraded		0
DEVICE06	Microsoft Corporation	Virtual Machine	10.0.19044.1706	Replace device	TPM check	0
DEVICE08	Dell Inc.	Inspiron 3671	10.0.19044.1645	Low risk		0
DEVICE09	Microsoft Corporation	Surface Pro 4	10.0.19044.1706	Replace device	Processor family check	1
DEVICE10	Microsoft Corporation	Surface Book 3	10.0.19042.1706	Low risk		0
DEVICE11	Microsoft Corporation	Surface Book 3	10.0.19042.1706	Low risk		0
DEVICE12	Microsoft Corporation	Virtual Machine	10.0.19043.1526	Low risk		0



## Secure hybrid workforces

*Windows 11 Enterprise has enabled the company to expand in a way that enforces high levels of security remotely, wherever an employee is located.*

Matt Fernandes, Head of Cloud Security, ITC Secure





## Protect Identities

## Zero Trust starts with secure access

### What you can do

Require strong multi-factor authentication methods.

Protect the user and device from malware threats.

### How you can do it

- Simplify MFA & SSO with [Windows Hello for Business](#).<sup>1</sup>
- Enable [advanced Phishing protection](#) with Windows SmartScreen.

### Why it matters

*Multi-factor authentication stops 99.9% of all password attacks.*

Your Pa\$\$word doesn't matter, 2019

*Industry data shows that password phishing accounts for 80% of all cyber-attacks today.*

Security study, 2022

<sup>1</sup>Biometric camera or fingerprint reader required. Azure AD required.

## Zero Trust starts with secure access

- Convenient, secure, multi-factor sign-on.
- Biometrics or a PIN.
- Biometrics **never leave the device**, protecting privacy.
- SSO with Windows apps.
- Presence sensing wakes the PC when present, locks the PC when leaving.
- Now supports multiple camera with enablement of the external camera when docking.
- Both Intel USB IR cameras, as well as AMD USB secure camera are supported.

## Windows Hello for Business

- Enterprise-grade.
- Strong multi-factor authentication.
- Asymmetric key pair auth model; the private key is never shared.
- Deployed in cloud, hybrid or on-premises environments.
- Key- or certificate-based options.
- PKI requirements and the need to sync keys from AAD to AD were removed for hybrid deployments.



Jack Purton



Hello Jack!

Sign-in options



### Secured Identity

Windows Hello  
Biometrics

Fast Identity Online (FIDO)  
Authenticator App

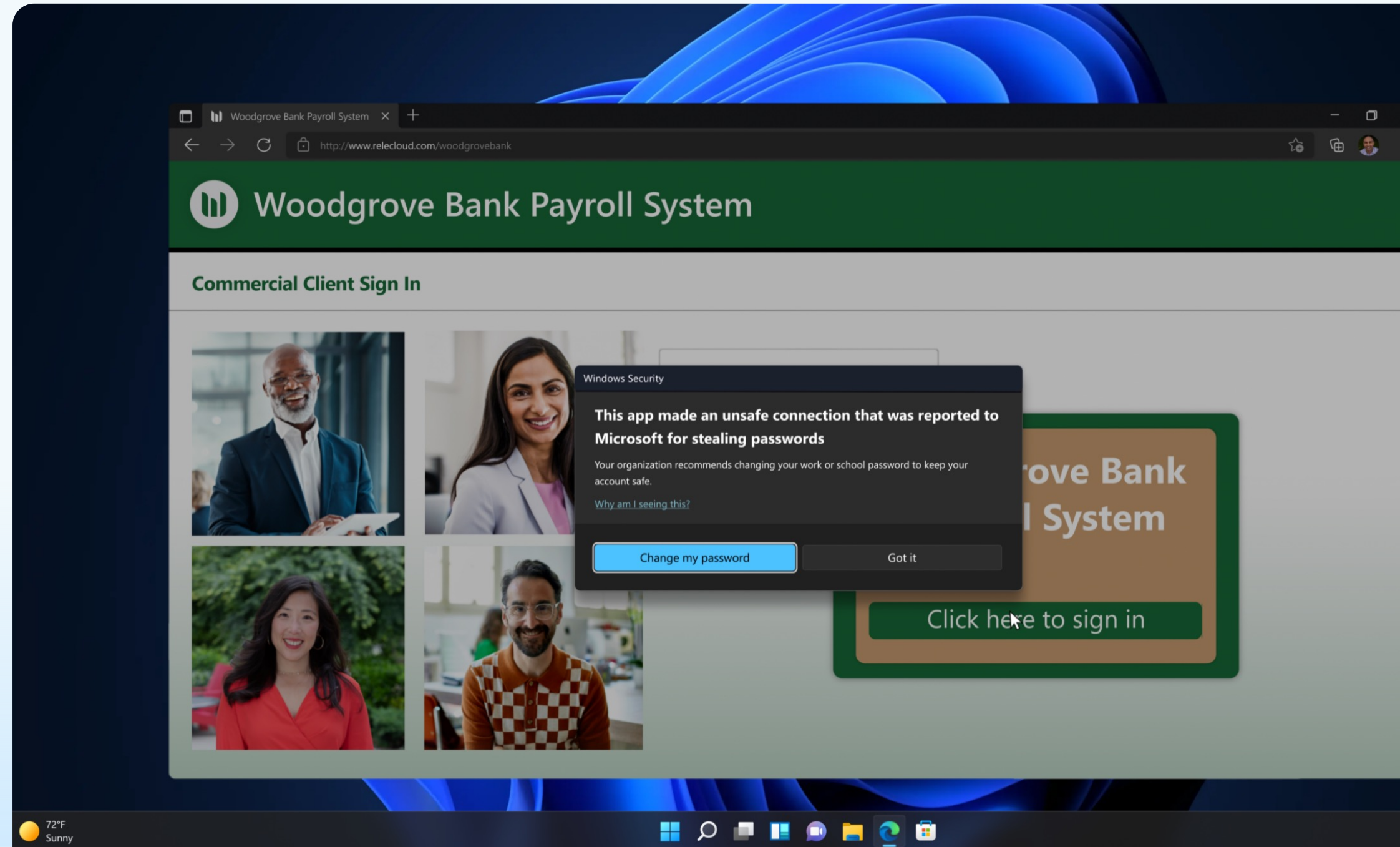
Smart Cards  
Access Control  
Credential  
Guard



## Zero Trust starts with secure access

- Helps protect against password phishing.
- Detect difficult to observe password phishing attacks so people can take action to prevent further compromise with Phishing Detection for SmartScreen
- Let's people know in the moment that their password needs to be changed
- Automatically reports the attack to IT so that the incident can be tracked

## Enhanced Phishing protection with Microsoft Defender SmartScreen ★



## Protect your data and apps *Advance the Zero Trust journey with encryption and isolation*



### What you can do

Encrypt all local data stored on devices.

Protect the device from ransomware attacks.

Prevent unknown apps from running.

### How you can do it

-  Set BitLocker policies and key escrow<sup>1,2</sup>
-  Isolate Edge and Office<sup>3</sup> apps with **Application Guard**.
  - Allow only trusted apps to run with **Application Control**.

### Why it matters

*Data encryption ranked as the 2nd highest software security investment, with 32% of those surveyed investing in data encryption.*

2021 Security Signals

*25% of organizations identified unauthorized access to sensitive data as a top security threat*

Source.

*In 2021 alone, ransomware attacks shot up by 935 percent.*

<https://www.microsoft.com/en-us/security/business/security-101/what-is-ransomware>

## Device Encryption

### BitLocker

- Encrypt out-of-box with BitLocker during Windows Autopilot deployment.
- BitLocker deployment and management is made easy, delivering leading security, reliability, and performance.
- Cloud management (Intune) or on-premises management (MBAM) and compliance (FIPS).
- TPM 2.0 is pervasive on modern Windows devices, and global acceptance of TPM.



#### Encryption and Data Protection

BitLocker

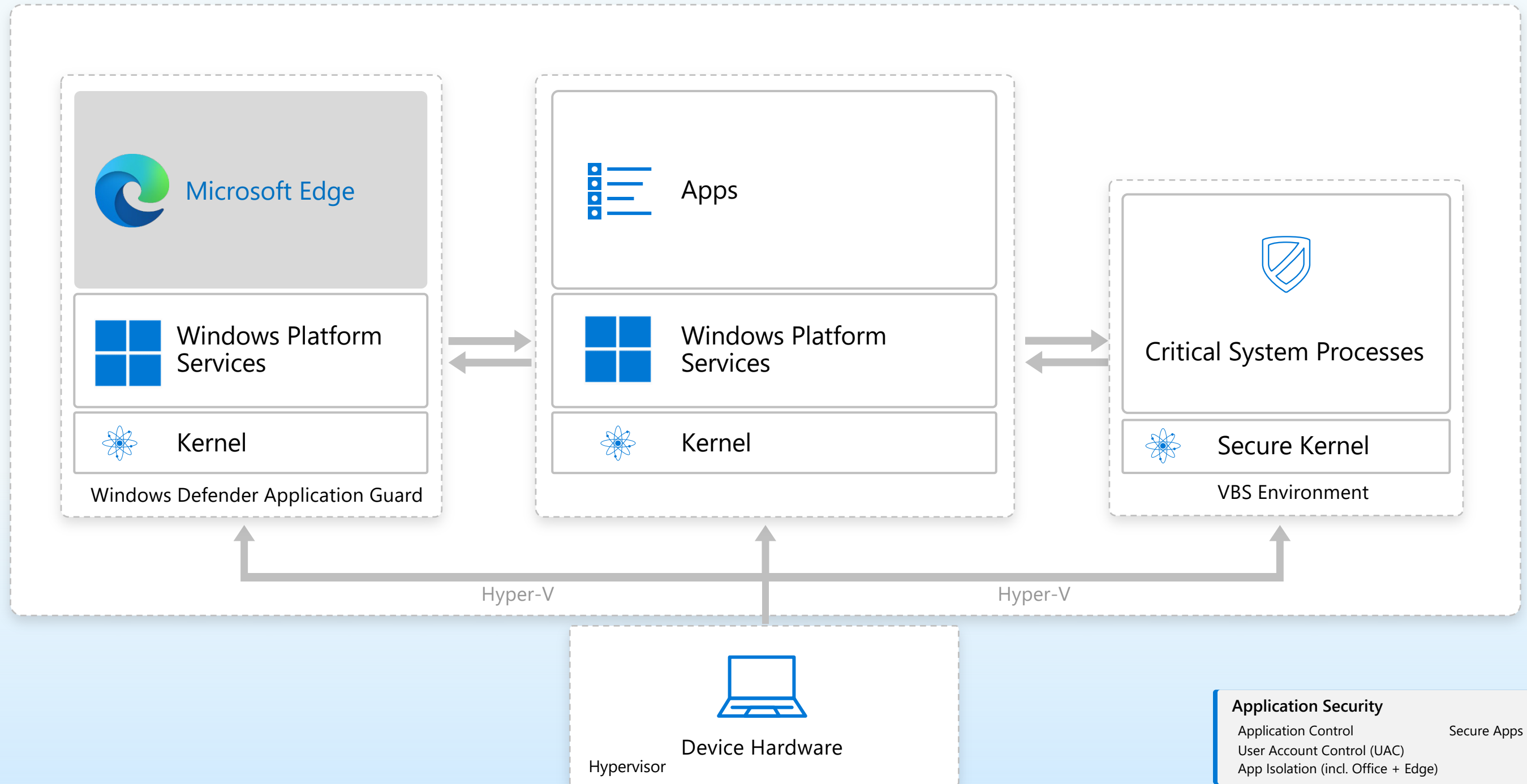
Encrypted Hard Drive

Email Encryption



# Hardware isolation

## Windows Defender Application Guard of Microsoft Edge



FEATURE FOCUS

**Application Security**

- Application Control
- User Account Control (UAC)
- App Isolation (incl. Office + Edge)

Secure Apps

Simplify IT management

**Streamline deployment  
and management for  
distributed workforces**



## Streamline deployment and management for a distributed workforces

### Prepare before you start

Identify update targets proactively with [analytics](#).

Migrate to Windows 11 with confidence with over [99.7% application compatibility](#).<sup>1</sup>

[Engage FastTrack services](#) to help you plan your deployment or overcome application compatibility issues.

### It's an update, not an upgrade.

Build on the same foundation and [deploy Windows 11 alongside Windows 10](#).

Utilize zero touch deployment of [new company PCs](#) for hybrid workers.

[Manage BYO scenarios](#) with policies that protect company data.

### Manage Windows 11 with the tools you own

Establish processes to [upgrade, and service PCs](#) with Windows Autopatch or other services included in your subscription.

Manage devices for the hybrid workforce with [insights](#) and [remediate](#) issues before employees know about them.

<sup>1</sup> Based on Microsoft App Assure data 2018-2021.





Save time with automation and endpoint compliance enforcement

## Prepare before you start

### What you can do

Ensures app & user data are available.

Upgrade eligible Windows 10 devices.


Modernize endpoint security configuration in the cloud.

Reduce risk.

### How you can do it

 Use analytics to determine **upgrade readiness**.

Get help with **application compatibility** with App Assure.

 Engage **FastTrack for Microsoft 365**, your advisor to build a digital workforce.

### Why it matters

*“We use a lot of different tools between upgrade readiness and compatibility reports in Intune and Power BI to provide a 360-degree view of the process.”*

- Gustavo Peuriot, Global Endpoint Manager, L'Oréal .

## Prepare before you start

### FastTrack for Microsoft 365 Your advisor to build a digital workforce

FastTrack helps you modernize your endpoints to realize the value of your Microsoft 365 investment.

FastTrack provides technical, remote deployment assistance to help you adopt:

- Microsoft Intune and co-management with Configuration Manager
- Endpoint Analytics
- Azure AD Premium
- Windows 10 Enterprise upgrade to Windows 11
- Universal Print
- App Assure

Customers worldwide have achieved results with FastTrack

**70K+** Customers enabled

**121M+** Devices unblocked

**350+** Approved FastTrack Ready Partner

**Get started today!** Visit [www.microsoft.com/FastTrack](https://www.microsoft.com/FastTrack) for guidance, resources, and to submit a Request for Assistance.



Delivered by Microsoft or approved FastTrack Ready Partners. Included in your eligible subscription of 150+ licenses at no additional cost. For more information, go to [aka.ms/FastTrackEligiblePlans](https://aka.ms/FastTrackEligiblePlans).

Prepare before you start

Engage the App Assure service to fix problems you identify

When apps work on Windows 10, they work on Windows 11.

Microsoft takes responsibility for compatibility with [App Assure](#).

**1,101,364**

Number of apps  
evaluated

**99.7%**

Application  
compatibility rate

**109.4 M**

Unblocked  
endpoints

**46 M**

Helpdesk calls  
prevented (estimate)

**\$7.95 B**

Estimated customer  
cost savings

App Assure program results and impact<sup>1</sup>

Use [Test Base](#) for Microsoft 365 to test your business-critical apps if you have a concern: [aka.ms/TestBase](https://aka.ms/TestBase)

App Assure requires a subscription with a minimum of 150 seats

<sup>1</sup> <https://aka.ms/Windows/blog023>



It's an update, not an upgrade

## Save time with secure deployments

### Scenario

Megan receives her new Windows 11 device while working from home. Excited to check it out, she immediately opens the box. She starts the new laptop, verifies her identity, and can start working quickly. Her familiar apps are installed, and she is pleasantly surprised that all her documents are where she left them on her Windows 10 PC.

### How you can do it

- Utilize a Zero Touch deployment with [Windows Autopilot](#).
-  Enjoy full control deployments with Intune<sup>1</sup> and feature updates with [Windows Update for Business](#) deployment service.
-  Automate with [Windows Enterprise activation](#).
- Realize instant productivity with [targeted apps](#).

### Why it matters

*"Device deployment and provisioning using Autopilot, including document migration with OneDrive and Sharepoint, saves several hours per device implementation, adding up to a three-year PV of \$102,000, or \$137 in time savings per deployment."*

The Total Economic Impact™ of Windows Pro Devices  
A commissioned study conducted by Forrester Consulting, June 2020

<sup>1</sup>Azure AD required. Microsoft Intune sold separately; apps can also be distributed, and policy can also be established with 3<sup>rd</sup> party MDM systems

## It's an update, not an upgrade

Suppliers ship an employee a corporate-owned devices that is locked to corporate policy and simply provisioned by the employees when they receive it.

- Lower IT workload with a **zero-touch process**.
  - + Windows 11
  - + Features
  - + Apps & Settings
  - + Enterprise Activation
  - + Updates
  - + User data
- Get employees from unboxing to productivity quickly.

## Windows Autopilot

The screenshot displays the Microsoft Endpoint Manager admin center interface. The browser address bar shows the URL: [https://endpoint.microsoft.com/?ref=AdminCenter#blade/Microsoft\\_Intune\\_DeviceSettings/DevicesWindowsMenu/windowsEnrollment](https://endpoint.microsoft.com/?ref=AdminCenter#blade/Microsoft_Intune_DeviceSettings/DevicesWindowsMenu/windowsEnrollment). The page title is "Windows | Windows enrollment".

The left navigation pane includes: Home, Dashboard, All services, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support.

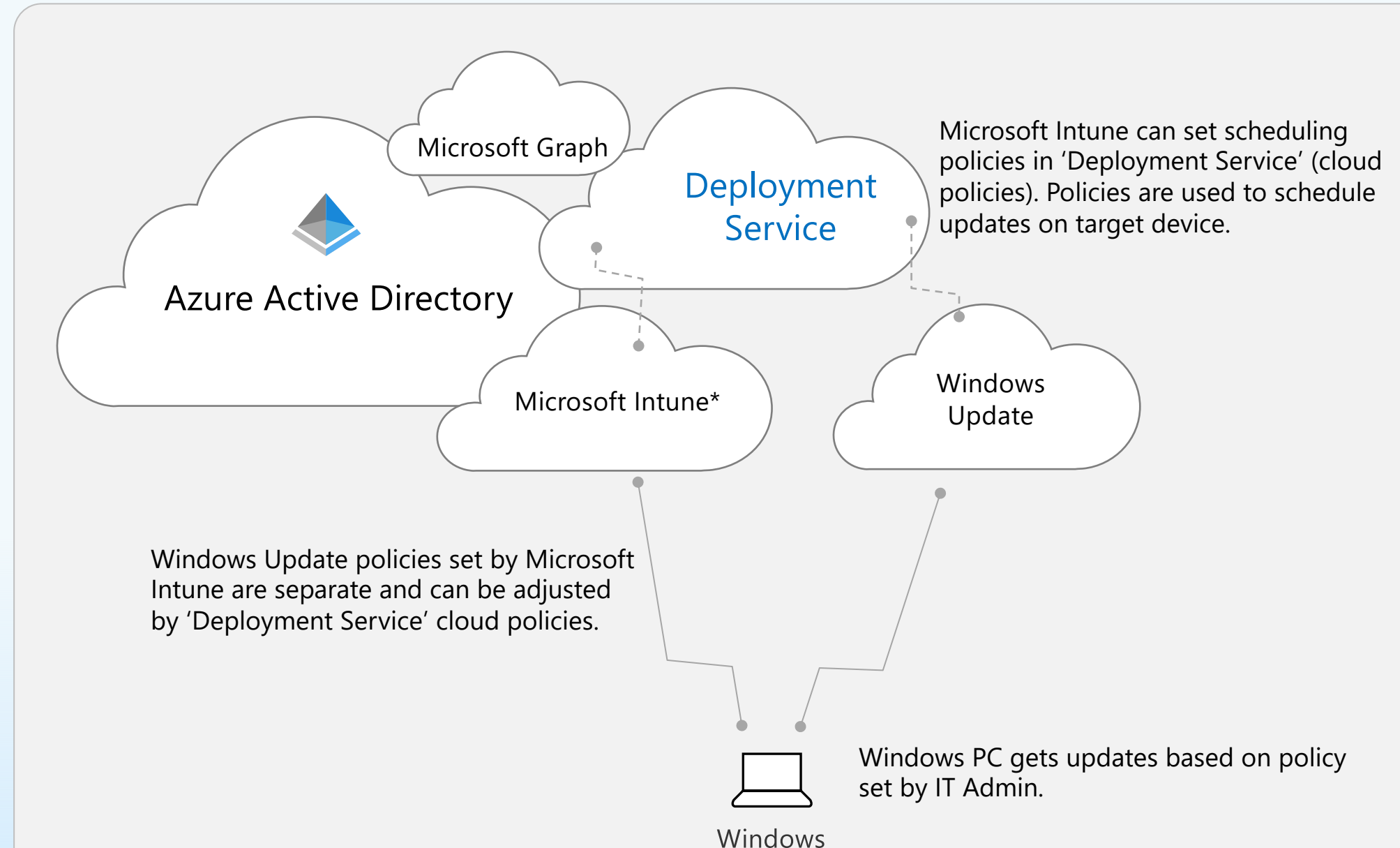
The main content area is titled "Windows | Windows enrollment" and includes a search bar. Below the search bar, there are sections for "Windows policies" (Compliance policies, Configuration profiles, PowerShell scripts, Update rings for Windows 10 and later, Feature updates for Windows 10 and later (Preview), Quality updates for Windows 10 and later (Preview)) and "General" settings (Automatic Enrollment, Windows Hello for Business, CNAME Validation, Enrollment Status Page). There is also a section for "Windows Autopilot Deployment Program" with options for Deployment Profiles, Intune Connector for Active Directory, and Devices.

## It's an update, not an upgrade

## Windows Update for Business deployment service



- Deploys quality and feature updates, including from Windows 10 to 11.
- Leverages Microsoft machine learning to automatically identify and pause deployments if impacted by a safeguard hold.
- Ensure coverage of PC installed base with automatic piloting.
- Schedule update deployments.
- Stage deployments over time.
- Integrate with Intune and Graph API available from PowerShell.
- Access emergency deployment of a security update when need arises.



Automatic and managed updates close security gaps



## Enforce endpoint compliance

### What you can do

Modernize endpoint security configuration and services with the cloud.

Reduce risk of breach.

### How you can do it

-  Let Microsoft automate updates with [Windows Autopatch](#).
-  Control quality, driver, and feature updates with [Windows Update for Business deployment service](#). And tailor with [custom compliance policies](#).
  - See endpoints that don't meet policies with [Endpoint Analytics](#).

### Why it matters

*"Its simplicity is what makes it so great."*

-One of our early enterprise Autopatch customers summed it up in one sentence:

## Enforce endpoint compliance

- Reduce the security gap by keeping software current.
- Optimize your IT admin resources using automation.
- Automate services for Windows Quality updates, Antivirus definitions, Microsoft 365 apps for Enterprise, Microsoft Teams, Microsoft OneDrive, and Microsoft Edge.
- Requirements:
  - Azure AD or hybrid Azure AD joined devices
  - Microsoft Intune<sup>1</sup>
  - Cloud-only or co-management

Get current and stay current with Windows Autopatch a service that automates the process of rolling out quality updates to Windows and Microsoft 365 to improve security and productivity.

The screenshot shows the Microsoft Endpoint Manager admin center interface. The left sidebar contains navigation options: Home, Dashboard, All services, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support. The main content area is titled 'Tenant admin | Tenant enrollment' and features a search bar and a list of services including Tenant status, Microsoft Tunnel Gateway, Connectors and tokens, Filters (preview), Roles, Azure AD Privileged Identity Management, Diagnostics settings, Workbooks, Audit logs, and Device diagnostics. Below these are sections for 'End user experiences' (Customization, Custom notifications, Terms and conditions) and 'Windows Autopatch' (Tenant enrollment). The right-hand pane displays the 'Welcome to Windows Autopatch' page, which includes a welcome message, a link to learn more, and instructions on how to enroll a tenant using a readiness assessment tool. At the bottom of the page, there is a checkbox to allow Microsoft to assess and store results for the readiness assessment, and an 'Agree' button.

Microsoft Endpoint Manager admin center

Home > Tenant administration >

Tenant admin | Tenant enrollment ...

Search (Ctrl+/)

Tenant status

Microsoft Tunnel Gateway

Connectors and tokens

Filters (preview)

Roles

Azure AD Privileged Identity Management

Diagnostics settings

Workbooks

Audit logs

Device diagnostics

End user experiences

Customization

Custom notifications

Terms and conditions

Windows Autopatch

Tenant enrollment

Welcome to Windows Autopatch

Windows Autopatch is a monthly subscription service to manage all updates for Windows 10 and Windows 11 environments, Windows 365 clients, Microsoft 365 apps, Microsoft Teams, and Microsoft Edge. For technical information, [learn more about Microsoft Autopatch](#). If you're unfamiliar with Windows Autopatch, [learn more about the service generally](#).

To enroll your tenant, start with the readiness assessment tool

The readiness assessment tool checks certain details of your Intune and Azure AD settings to ensure they're ready for the best experience when you enroll in Windows Autopatch. Run this tool whenever you want to confirm you've taken care of any reported issues.

We'll give you a list of things you need to do before enrolling in the tool, [learn more about our prerequisites](#). You must be signed in as at least Intune admin to run this tool. Some checks require additional permissions. [Learn more about these checks](#), permissions, and data storage. Once the tool shows you're ready, you can enroll your tenant into the service. You will not need to run the tool again. You must be a Global Administrator to enroll into the service.

This tool collects, assesses, and stores data in the service to perform the assessment. We do not collect or store personal data, nor share your data with other services. However, we do collect system metadata and organizational information to complete this assessment. We retain data for 12 months after you last use this tool to provide and improve the service. After 12 months, we retain it in de-identified form without company name. You can choose to delete the data we collect. [Learn more about the checks](#) and review the [privacy statement](#).

Select check box to allow Microsoft to assess and store results for the readiness assessment, and then select **Agree**.

Agree

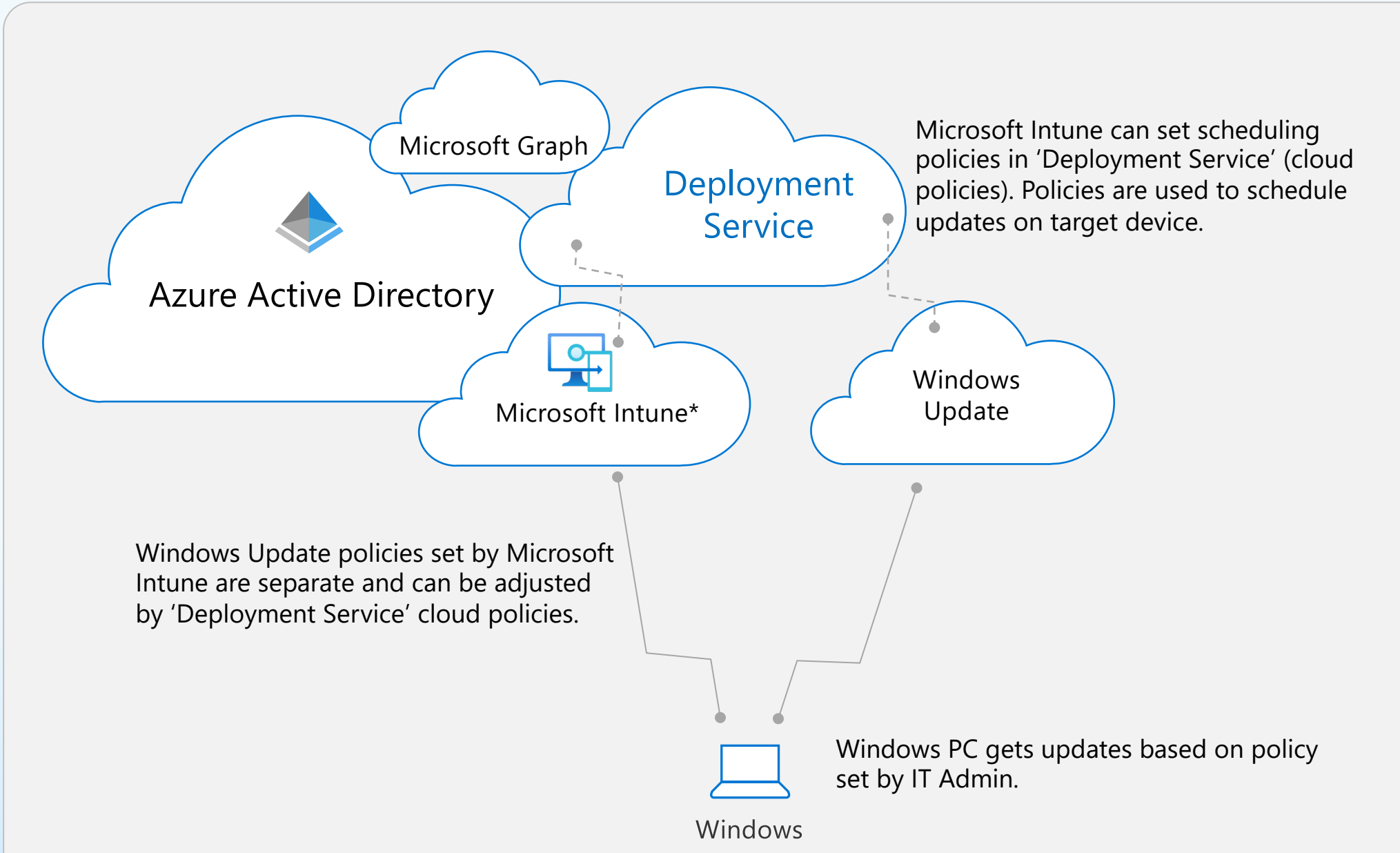
<sup>1</sup>Azure AD required. Microsoft Intune sold separately



# Enforce endpoint compliance

## Windows Update for Business deployment service

- Supports deploying quality, and feature updates, including from 10 to 11
- Schedule update deployments
- Stage deployments over time
- Emergency deployment of a security update when need arises
- Automatic piloting of updates to ensure coverage of PC installed base
- Leverage Microsoft machine learning to automatically identify and pause deployments if impacted by a safeguard hold
- Integrated with Intune and Graph API available from PowerShell



# Understanding Update Management

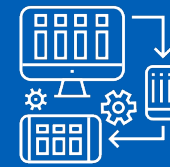
## Service Microsoft offers to manage Windows updates on customer's behalf



Windows  
E3

### Windows Autopatch

Microsoft will automatically configure Windows Update for Business client policies and the deployment service on customer's behalf to help keep Windows 10/11, Microsoft Edge, and Microsoft 365 software up to date.



**Microsoft is responsible for managing update settings** to help keep Windows 10/11 devices in customer's organization productive and protected.

## Solutions customers use to manage Windows updates from the cloud



Windows  
E3

### Windows Update for Business deployment service

Provides control over the approval, scheduling, and safeguarding of updates delivered from Windows Update and offers cloud controls via Graph API, PowerShell, or Microsoft Endpoint Manager.



**Customers have full responsibility for managing updates** and can use these tools to help keep devices in their organization productive and protected.

All  
Commercial

### Windows Update for Business

Use GPO or MDM solutions to configure the Windows Update client settings that control how and when devices are updated.

Power exceptional  
experiences

**Empower flexible workstyles  
and smarter work**



## Empower flexible workstyles and smarter work

### Bolster productivity and amplifies participation

Better user experience.

Take advantage of a minimal learning curve; Snap assist; control Teams from the taskbar; wake up the PC when you walk into your 'office'; start and adjust Focus time.

Eliminate print servers with Universal Print and enable employees to [print from anywhere on any device](#), including phones.

### Choose for maximum flexibility and inclusivity

Flexible virtualization options.

Enable diverse work and BYO scenarios with Windows 365 and Azure Virtual Desktop and set policies that protect company data.

[Embrace inclusivity](#) to deliver the best experience for all your workers. Accessibility is built-in for people with disabilities, so Windows 11 is inclusive by design.

### Minimize disruption with unobtrusive IT.

Better IT and helpdesk experience.

Enjoy reduced update size; less-disruptive updates; cloud management; streamlined onboarding.

[Inform employees](#) with organizational messages directly to an operating system surface, such the desktop, lock screen, or right above the taskbar.



Proactively manage experiences and support costs

Power exceptional Windows experiences

## What you can do

Get ahead of issues with device health and performance monitoring.






Optimize productivity by updating off hours.

Onboard flex workers on personal or partner devices.

Reduce cost of maintaining on premises print servers.

Mitigate the need for additional training and support.

## How you can do it

-  Remediate proactively with Endpoint Analytics.
-  Reduce vulnerability with [Windows Autopatch](#) or [Windows Update for Business deployment service](#).
-  Provision Windows 11 with [Cloud PC](#) for contractors and temp workers.
-  Move print to the cloud with [Universal Print](#).
-  Deliver [organizational messages](#) within the Windows experience.

## Why it matters

*“Windows 11 is that extra step in productivity that I didn’t know I was missing. It’s smarter, faster, and didn’t break a thing.”*

-Raymond Comvalius, IT Infrastructure Specialist, Invendows B.V (Nextxpert)

## Fix the problem before people know about it

## Endpoint analytics with proactive remediation



- Apply proactive remediations for common support issues before employees even notice.
- Use detection script monitors for the issue.
- Fix detected issues with remediation script.
- Get detailed reporting of issue scope script effectiveness.
- Use Microsoft-supplied scripts or create your own.
- Keep Windows PC humming so your people can be productive and lower helpdesk costs by preventing problems.

The screenshot displays the Microsoft Endpoint Manager admin center interface. The main heading is "Endpoint analytics | Overview". A search bar is present with the text "Search (Ctrl+/)". The left sidebar contains navigation options: Home, Overview (selected), Settings, and Reports. Under Reports, there are links for Startup performance, Proactive remediations, Recommended software, Application reliability, and Work from anywhere (preview). The main content area shows the "Endpoint analytics score" as 82, which is above the baseline of 50. A green bar indicates the score is "Meeting goals". Below this, a table lists score categories with their respective scores and progress bars:

Metric	Score
Startup performance	68
Recommended software	86
Application reliability	100
Work from anywhere (preview)	94

At the bottom, a note states: "Preview reports do not contribute to your Endpoint analytics score". On the right side of the interface, there are filters for "Baseline" (All organizations (median)) and "Filter" (All Devices). Below these are "Insights and recommendations" with several items:

- Warning:** You have 1 devices with HDD. On average, they are 29 seconds slower and sign in 29 seconds slower than devices with SSD. Recommendation: Upgrading these devices will boost your score. [Learn more.](#)
- Warning:** 96% of your devices running Windows 10 are not registered with Windows Autopilot. Autopilot will improve the initial provisioning experience for new PCs. Recommendation: Register all devices for Autopilot to boost your score. [Learn more.](#)
- Info:** You have 3 devices with significant delays in application processes. On average, impacted devices take longer than your other devices. Recommendation: Getting these devices to responsive device state will boost your score by 1 point.

## Choose for maximum flexibility and inclusivity



### Deployed on a laptop or tablet

- Personalized (single session) desktops with local apps in connected and disconnected scenarios.
- IT admin has full control over configuration and update cadence.
- Integrates with existing management toolsets.
- Predictable per user pricing subscription.

Optimized for **performance**

## Windows 11 deployment models



### Deployed on Cloud PCs with Windows 365

- Windows 11 personalized (single session) desktops.
- Windows App in the Microsoft Store.
- Complete end-to-end Microsoft service.
- One-stop administration in Microsoft Endpoint Manager for user desktops.
- Direct self-service option.
- Predictable per user pricing.

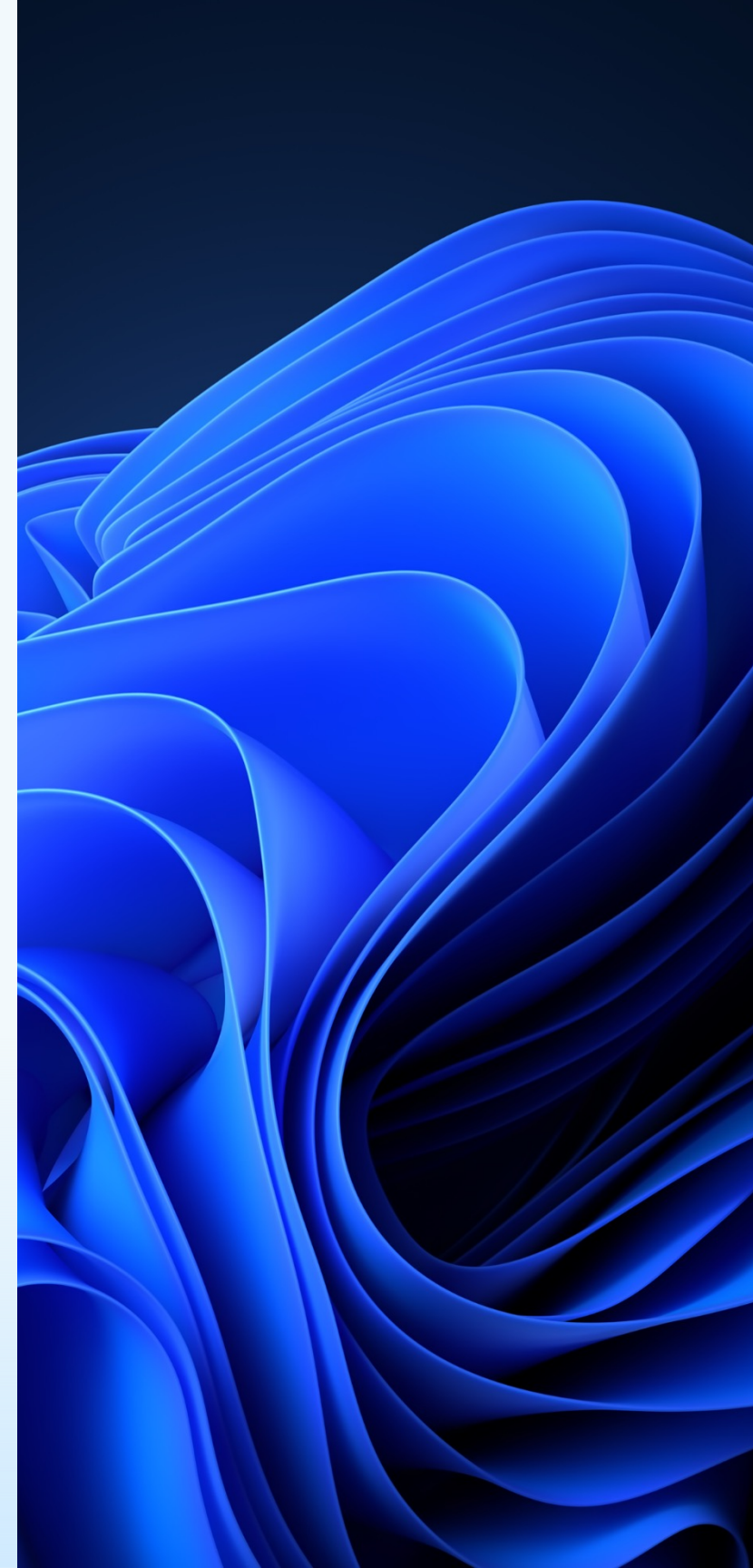
Optimized for **simplicity**



### Deployed in VDI with Azure Virtual Desktop

- Windows 11 and Windows Server personalized and multi-session desktops.
- Remote app streaming.
- Full control over configuration and management.
- Citrix and VMware support.
- Flexible consumption-based pricing.

Optimized for **flexibility**



# Secure serverless print from anywhere on any device

Universal Print

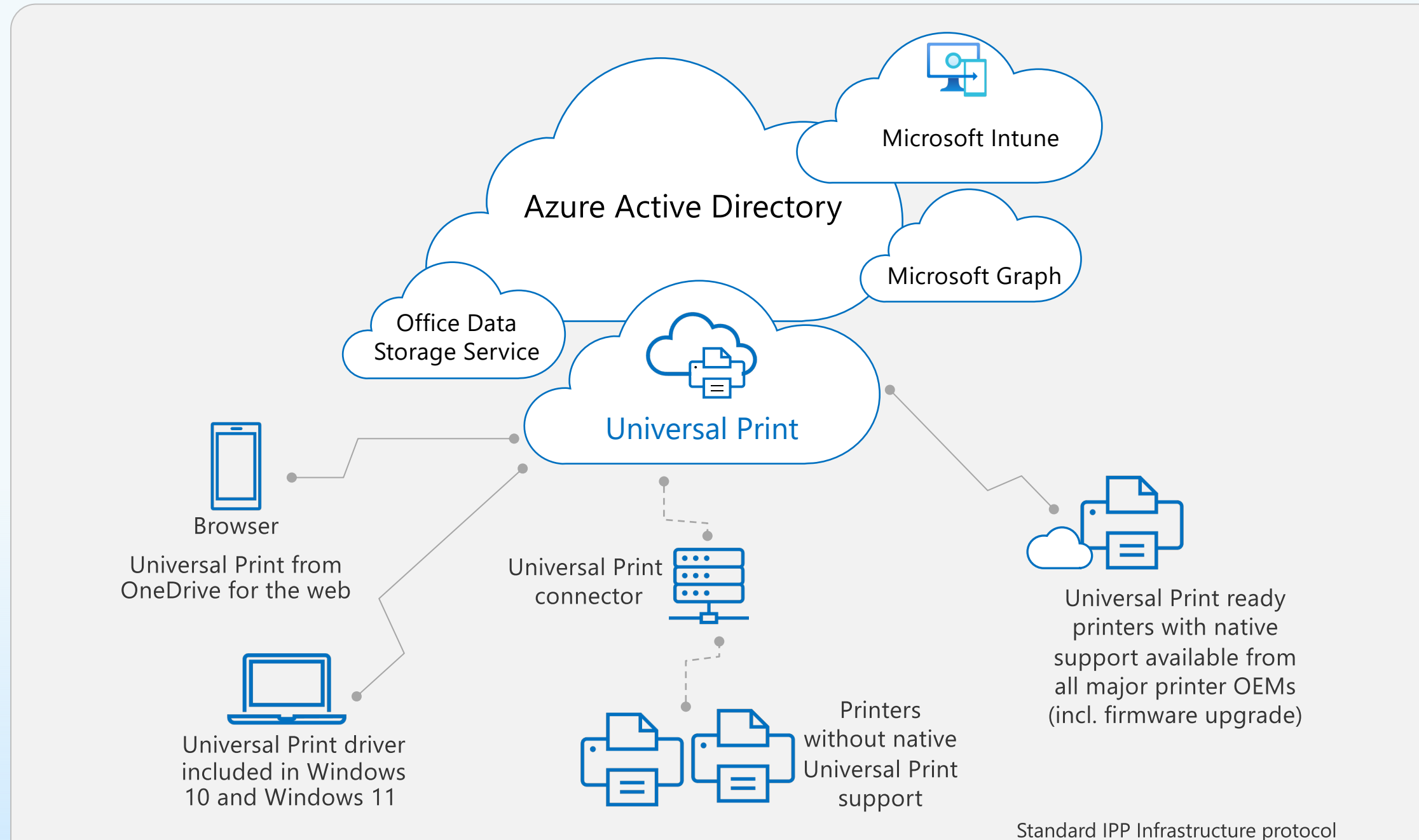


## For organizations

- No on-premises print servers
- Secure Zero Trust deployment
- Centralized Azure AD printer registration, management and reporting.
- Integrates with Intune to configure print experience
- No need to install drivers.

## For people

- Employees print from anywhere, and any device (OS, form factor, service, location).
- No need for a VPN.
- ★ Print from OneDrive or Excel for the web on any mobile devices.
- Print experience, advanced finishing options and workflows extendible with PSA.
- ★ Secure release with PIN or QR code coming CY23Q1.





## Corporate communication to end users during device setup and beyond

- Delivers message to people on a corporate PC.
- Provides a communication channel for IT for targeted information to employees.
  - In the Get Started app runs after OOB.
  - In messages displayed on right above the taskbar and in notifications panel.
- Messages are created and managed in Microsoft Intune.

PRE

Preview starting November 2022, functionality may be substantially modified before it's commercially released. Microsoft makes no warranties, express or implied, with respect to the information provided here.

## Organizational messages in product



Microsoft Endpoint Manager admin center

Home > Tenant admin

### Tenant admin | Organizational messages (preview)

Search

- Tenant status
- Remote help
- Microsoft Tunnel Gateway
- Connectors and tokens
- Filters
- Roles
- Azure AD Privileged Identity Management
- Diagnostics settings
- Audit logs
- Device diagnostics
- Multi Admin Approval
- Premium add-ons

#### End user experiences

- Customization
- Organizational messages (preview)
- Custom notifications
- Terms and conditions

Overview Message

#### What are Organizational messages?

You can send messages with your organization's logo directly to your users through their Windows 11 devices. Select from a variety of common messages for display just above their taskbar, in their Notifications, or when they run the Get Started app. [Learn more about organizational messages](#)

Taskbar messages	Notifications area messages	Get Started app messages
Choose this message type to display a message on users' desktops, just above their taskbar. The message repeats with a frequency you set until the user acts on it.	Select this message type to display a message in your users' Notifications. The message repeats with a frequency you set until the user acts on it..	These messages appear just once, the first time the Get Started app runs after a device is enrolled in Intune.
<a href="#">View</a>	<a href="#">View</a>	<a href="#">View</a>

Before you create a message:

1. Ensure the required mobile device management (MDM) policy settings are set to Allow. [Learn more about MDM policy settings](#)
2. Decide whether to block messages directly from Microsoft, while allowing admin messages to display. [Learn more about controlling messages](#)  
 Allow
3. Prepare logos for your org in PNG format with a transparent background. You'll need three sizes:
  - 48 x 48 pixels used for messages in the Notifications area
  - 64 x 64 pixel images used for messages attached to the Taskbar



## Tighter integration for better collaboration

*Windows 11 early adopter feedback has been positive, with comments on the modern interface and tighter integration with Microsoft Teams that enables deeper collaboration across our hybrid workforce.*

Brad Nyers, Global IT Infrastructure Services Lead,  
Accenture



Realizing the value of  
Windows 11 Enterprise and  
lower TCO



Get started today

## Secure the digital workforce with Windows 11 Enterprise and Intune



**Protect the digital worker**  
Security by default

Windows, Microsoft Intune and Azure AD  
can reduce the data breach risk



**Simplify IT management**  
Proactive remediation and  
automation from a single source

Improve operational efficiency with  
Windows Enterprise and Intune



**Power better experiences**  
Protected and productive  
without downtime

Increase in end-user productivity and  
give IT more time for other projects



**TCO and cost savings benefits from Microsoft 365 E3**



Total Economic Impact study Windows 11 Enterprise

Total Economic Impact study Microsoft Intune

Total Economic Impact study Microsoft 365 E3

[aka.ms/Windows11EconomicValue](https://aka.ms/Windows11EconomicValue)

[aka.ms/IntuneEconomicValue](https://aka.ms/IntuneEconomicValue)

[aka.ms/Microsoft365EconomicValue](https://aka.ms/Microsoft365EconomicValue)

## Next steps

- ✓ **Operating systems** Upgrade eligible PCs to Windows 11 and stay current on Windows 10 in a mixed environment.
- ✓ **Devices** Plan for modern Windows 11 devices and get Windows on any device with Windows 365.
- ✓ **Management** Adopt cloud management to unlock key deployment and analytics tools in Microsoft Intune.
- ✓ **Endpoint security** Implement Zero-Trust security and utilize common security baselines across client and cloud.
- ✓ **Windows Autopatch** Let Microsoft automate quality updates with Windows Autopatch.



## Resources

### Windows 11 Enterprise [Onboarding Kit](#)

**What:** The Windows 11 Onboarding Kit helps you prepare, educate and support people in your organization before, during, and after deploying Windows 11.

The onboarding kit includes templates and documents that will help you communicate and support employees. The content can be customized and adapted to your needs.

Available in English only.

**Where:** [aka.ms/WindowsOnboardingKit](https://aka.ms/WindowsOnboardingKit)

**Feedback:** Anything missing? Let us know at [aka.ms/windows/OnboardingKitFeedback](https://aka.ms/windows/OnboardingKitFeedback)

### New Technology: [The Projected Total Economic Impact™ Of Windows 11](#)

July 2022

A commissioned study conducted by Forrester Consulting on behalf of Microsoft.

**Report:** [aka.ms/Windows11EconomicValue](https://aka.ms/Windows11EconomicValue)

**Calculator:** [aka.ms/Windows11EconomicValue/calculator](https://aka.ms/Windows11EconomicValue/calculator)

**Infographic:** [aka.ms/Windows11EconomicValue/infographic](https://aka.ms/Windows11EconomicValue/infographic)

Learn more about Windows 11 Enterprise at [aka.ms/we3](https://aka.ms/we3)

Thank you



# What's new in Windows 11

## 2022 Update



### Security by default from chip to cloud

- Hypervisor Code Integrity (HVCI ) and virtualization-based security (VBS) turned on by default for new PC that are Enterprise activated.
- At upgrade Credential Guard will be turned on by default (Enterprise only)
- Enhanced phishing protection with Microsoft Defender SmartScreen
- Personal Data Encryption API

### Simplify IT management

- Organizational messages (Enterprise only) – **Preview November '22**
- Multi-app kiosk mode
- Universal Print
  - Print from Excel for the web
  - Enhanced reporting

### Better experiences for everyone

- Presence sensing, locks and unlocks PC with Windows Hello (required)
- Snap layouts with click and touch
- Personalized File Explorer tabs – **October '22**
- Improved accessibility with systemwide live captions, natural voice access
- Enhanced focus tool, available directly from the taskbar
- Optional AI enhancements for videoconferencing (NPU required)
- Codec HEVC included by default



# Windows 10/11 Enterprise E3 Subscription

## Before You Start

How does a Windows 10/11 Enterprise E3 subscription work?

## Windows 10/11 Enterprise E3

### What is a subscription?

A per user-based license to use Windows Enterprise and associated services and entitlements, paid per month/year, on maximum 5 devices at a time per user. The 5 includes physical devices as well as virtual devices.

In contrast, Windows Pro is licensed per device and comes pre-installed on a business class PC.

### What is an edition, or version?

Windows has the following editions: Home, Pro, Pro for Workstations, Enterprise, Enterprise LTSC, Pro Education, Education, IoT, Enterprise IoT, Enterprise IoT LTSC

Windows has versions. Examples are 10 21H1, 11 22H2

### What Windows OS is included?

Includes Windows 11 Enterprise edition, to be enabled as an upgrade on Windows 10/11 Pro devices.

Only Pro devices are eligible for an Enterprise upgrade. Home devices are not.

Includes downgrade rights to a previous version. Customer can buy a Windows 11 PC and downgrade to Windows 10.

When an Enterprise subscription expires, the device will revert to Windows Pro within 90 days.

Also, includes Windows 10 Enterprise LTSC edition for special purpose devices, but does not include Windows 10/11 Enterprise IoT.



### What services and entitlements are included in Enterprise E3, but not in Pro?

1. Windows cloud activation
2. Windows Autopatch
3. Windows Update for Business deployment service (security, feature, version and driver updates)
4. Universal Print
5. Organizational messages
6. Release health and security score in Microsoft 365 admin center
7. Microsoft Intune integration:
  - a) Endpoint Analytics proactive remediation
  - b) Device readiness and update compatibility reports
  - c) BitLocker management and key escrow
  - d) Windows license management
8. Defender Application Guard and Credential Guard
9. Managed Application Controls and AppLocker
10. Direct Access and Always On-VPN device tunnel

**Entitlements included:** LTSC, FastTrack, Virtualization rights (VDI, Azure Virtual Desktops, Windows 365 Enterprise) and 36 months Lifecycle support on the yearly CYH2 feature update

# Windows 11 Enterprise E3 brings continuous value with cloud-powered capabilities available for immediate use upon release and predictable OS-based features updated annually

Windows 11

## Power exceptional experiences

**Simple, modern visuals**, with a new **Start Menu**, and enhanced user experience, including **Snap groups** and **Snap layouts**.

**Great tablet experience**, enables quicker actions with **touch or pen**, and a **redesigned customizable onscreen keyboard** and enhanced inking.

**Integrated Voice Typing**, so you can **speak naturally to type**

**Microsoft Power Automate ships with the OS**, so people can focus on what is important and automate the rest.

## Inclusive video conferencing

Turn microphone on and off right from the taskbar so everyone's voice is heard.

Share any window from the taskbar in a call and maintain taskbar access while presenting.

Keep the background in the background with **intelligent noise cancelling** and **blur**.

## Security by default from chip to cloud

**Virtualization-based security (VBS)** and **Hypervisor-enforced Code Integrity (HVCI)** turned on by default<sup>1</sup>.

**Security policies locked down** and stay locked<sup>1</sup>.

**Improvements for Windows Hello for Business hybrid deployments** and **AMD USB secure camera support**.

Support for **Pluton security processor**<sup>2</sup>.

**Wi-Fi 6E**<sup>2</sup> supports better throughput and security.

## Simplify IT management

**Near parity between MDM and Group Policy** for complete Cloud connected management.

**Enhanced Universal Print** saves cost by **eliminating print servers**.

**Test Base for Microsoft 365** to test business critical apps.

**Run virtual apps like local**, Windows 11 works better together with virtual desktop, and virtualized apps.

**One feature release per year** and 36 months of servicing per release.

**Windows 365 Enterprise entitlement**

<sup>1</sup> Requires a new or reimaged PC

<sup>2</sup> New hardware required

<sup>3</sup> Can be disabled on Enterprise PCs

Windows 10

1507	1511	1607	1703	1709	1803	1809	1903	1909	2004	20H2	21H1	21H2
Windows 10 core Cortana Continuum In-place upgrades Windows as a service SmartScreen BitLocker Credential Guard Device Guard Microsoft Edge Cortana at work Windows Defender Antivirus Mobile device management (MDM) Azure Active Directory (Azure AD) Join Windows Store for Business Windows Update for Business Mail, Calendar, Photos, Maps, Groove, Skype Windows Information Protection Windows Hello for Business Windows Analytics Upgrade Readiness Microsoft Application Virtualization (App-V) Microsoft User Experience Virtualization (UE-V)	Hybrid Azure AD Join Windows Ink Windows Autopilot Windows Defender ATP Windows Defender Security Center Express update delivery Hyper-V Windows 10 Subscription Activation Windows Insider Program for Business Paint 3D Cortana at work Night light, mini view Windows Defender Exploit Guard, System Guard, Application Guard, Application Control Mobile device management Windows Analytics Update Compliance Windows Analytics Device Health Co-management Enterprise search in Windows Continue on PC OneDrive Files On-Demand Narrator	Mixed Reality Viewer Windows Analytics—Spectre/Meltdown, Delivery Optimization, Application Reliability, Logon Health Windows Defender ATP automated remediation Conditional Access based on Windows Defender ATP device risk Threat Analytics Emergency Outbreak Updates Advanced hunting Cloud Credential Guard Diagnostic Data Viewer Windows Autopilot enrollment status page (ESP) Windows 10 Enterprise in S mode Shared devices Nearby sharing Dictation Timeline Microsoft Defender ATP attack surface reduction controls Investigation and remediation across Office 365 ATP and Microsoft Defender ATP Web Authentication in Microsoft Edge	Windows Hello with FIDO 2.0 30 months of support for September releases Windows Autopilot self-deploying mode Windows Autopilot Hybrid Azure AD join Block of enable S Mode switch Microsoft Edge kiosk mode Desktop Analytics (preview)—Intelligent Pilot Selection and Configuration Manager Integration ReadyForMicrosoft365.com Microsoft Edge experience improvements Accessibility enhancements Access the clipboard across devices Windows Virtual Desktop (preview) Microsoft Defender ATP enhancements Attack surface reduction enhancements Next-generation protection enhancements Tamper protection capabilities Windows Sandbox Application Guard enhancements Passwordless sign-in for Microsoft accounts New kaomoji and emojis Accessibility improvements	Windows Shell enhancements Windows Timeline Device management policies Windows MDM security baselines in Intune Enhanced Windows Autopilot ESP Windows Autopilot for pre-provisioned deployment (preview) SetupDiag Winlogon automatic restart sign-on (ARSO) Reserved storage Improved Delivery Optimization BitLocker key rotation Calendar and schedule enhancements Cloud Clipboard CPU rotation Digital Assistants above the lock screen Improved Inking Kiosk mode customization Narrator improvements Streamlined notifications TLS 1.3 Servicing improvements for H2 builds	Windows Autopilot Hybrid Domain Join via VPN (preview) Microsoft Connected Cache (preview) Windows Virtual Desktop (GA) Desktop Analytics (GA) MSIX installation options Task Manager improvements Settings page multi-select and list management Bluetooth pairing improvements Network camera support More kaomoji Application Guard for Microsoft Edge and Office Windows Subsystem for Linux (WSL) v2 East Asian Input Method Editors (IMEs) Reserved storage for existing devices Cloud recovery Windows Setup improvements Delivery Optimization PowerShell commands Cortana improvements Accessibility enhancements Windows Autopilot Azure AD Join with VPN Microsoft Edge as default	Microsoft Defender Application Guard for Office Windows Hello biometrics Enhanced MDM capabilities Improved out-of-box experience (OOBE) Enhanced Windows Autopilot capabilities Improved Tablet experience Windows Hello multicamera support Microsoft Defender Application Guard improvements Windows Management Instrumentation (WMI) Group Policy Service (GPSVC) improvements <a href="#">Updates to Universal Windows Platform (UWP) VPN API</a> <a href="#">WPA3 H2E standards support</a> <a href="#">Windows 365 Enterprise access entitlement</a> <a href="#">Apps as local with Azure Virtual Desktop</a> <a href="#">Universal Print integration w/OneDrive for web</a> <a href="#">Universal Print integration w/Excel for web</a> <a href="#">Universal Print support for 1 GB print jobs</a> <a href="#">Additional Group Policy settings in MDM</a> <a href="#">Microsoft Edge in Windows 10 Enterprise LTSC</a>						

## Windows 11 ready devices

To install or upgrade to Windows 11, devices must meet a set of minimum hardware requirements<sup>1</sup>

<b>Processor:</b>	1 gigahertz (GHz) or faster with 2 or more cores on a <u>compatible 64-bit processor</u> or System on a Chip (SoC)
<b>RAM:</b>	4 gigabyte (GB)
<b>Storage:</b>	64 GB or larger storage device. Sufficient free storage needs to be available to support regular monthly updates.
<b>System Firmware:</b>	UEFI, Secure Boot capable
<b>TPM:</b>	TPM version 2.0
<b>Graphics card:</b>	DirectX 12+ with WDDM 2.0

Why is this important?

1. **Security.** Windows 11 raises the bar for security by requiring hardware that can enable protections like Windows Hello, Device Encryption, virtualization-based security (VBS), hypervisor-protected code integrity (HVCI) and Secure Boot.
2. **Reliability.** Devices upgraded to Windows 11 will be in a supported and reliable state. By choosing CPUs that have adopted the new Windows Driver model and are supported by OEM and silicon partners who are achieving a 99.8% crash free experience.

<sup>1</sup> <https://www.microsoft.com/windows/windows-11-specifications>