

Cornerstone Webinar



*Ställ gärna frågor
i chatten!*

colingo

Windows 11 – 22H2

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Andreas Stenhall

- Lösningsarkitekt och rådgivare; fokus på säkerhet, Windows 10/11, enhetshantering med Endpoint Manager (Intune) i Microsoft 365.
- Microsoft MVP i 14 år.
- Föreläsare på TechEd USA/Europa, BUILD, TechDays m.m.
- Kursinstruktör och kursförfattare; *Intune-based Windows 11/10 – Native cloud-only client platform, Managing Windows 10/11 using Intune, Windows 11 What's New, Get ready, Deploy and Manage!* and *Windows 10/11 advanced troubleshooting and support.*
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Torbjörn Granheden



- Lösningsarkitekt och rådgivare Modern Workplace @ Coligo
- MVP – Enterprise Mobility
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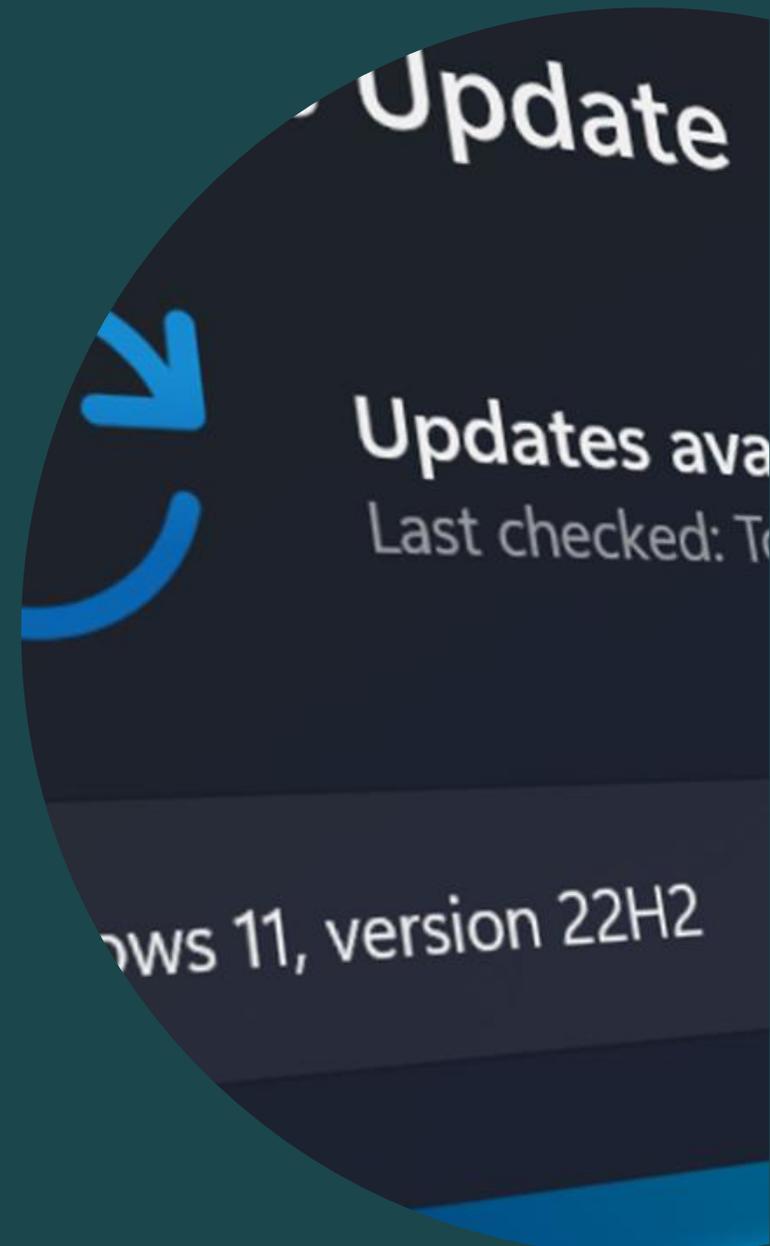


Agenda

- Generella nyheter
- Deployment
- Windows 365 och AVD
- Användargränssnitt
- Klimat och energi
- Appar
- Management
- Säkerhet
- Known Issues
- Sammanfattning

En hel del demos!

Generella Nyheter



Allmänt

En release per år – på **hösten**.
Dessutom **36 månaders** support,
om man kör Windows **Enterprise**
eller **Education**. Annars **24**
månaders support.

När är det läge att uppgradera till Windows 11?

Tips:

Starta med Pilot

Utbildning för IT

Utbildning för slutanvändare

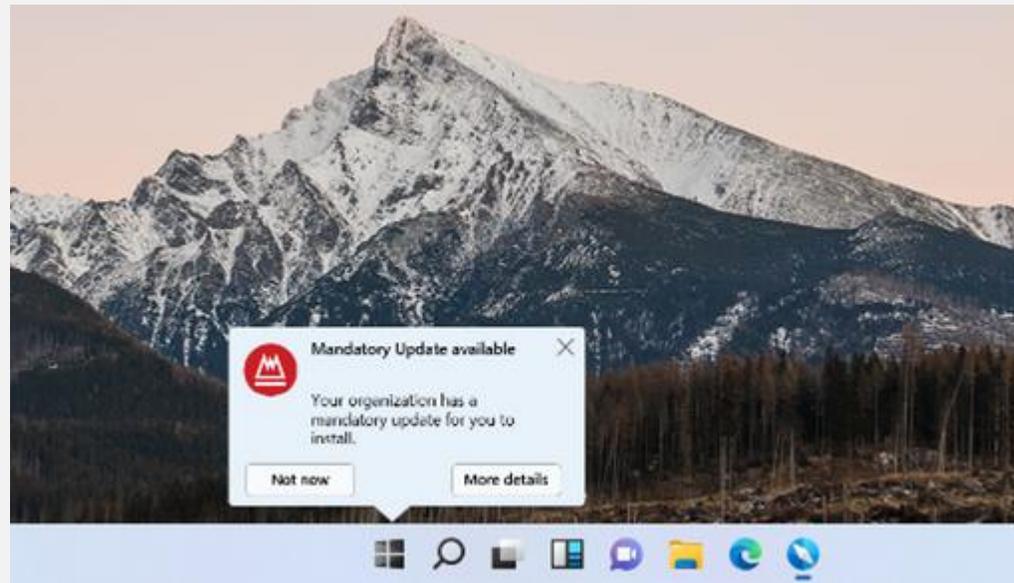
Bred Utrullning



Allmänt

Ett nytt sätt att kommunicera till sina användare – via Intune. **Public preview** kommer i **november**.

Task bar, toast notification eller Get started-appen.



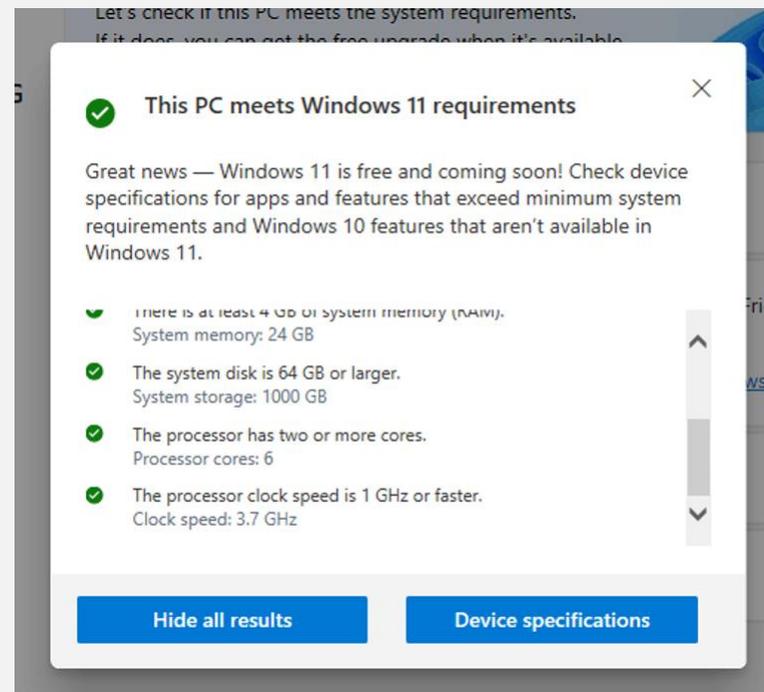
Hårdvaru krav

Följande är grundkraven:

- x64 eller ARM64-baserad processor
- 4GB RAM
- 64GB disk
- Grafikkort: DirectX 12-kompatibelt.
- UEFI
- SecureBoot
- "En modern processor"
- TPM 2.0
- Kraven gäller även **virtuella** Windows 11-datorer.

Kolla kompati- biliteten?

1. PC Health Check – enstaka dator (ej företagshanterade datorer)



Kolla kompati- biliteten?

2. Intune / Microsoft Endpoint Manager admin center > Reports > Endpoint Analytics > **Work from anywhere** och klicka på **Windows**.

Microsoft Endpoint Manager admin center

Home > Endpoint analytics

Endpoint analytics | Work from anywhere (preview)

Search (Ctrl+/)

Overview Settings

Reports

- Startup performance
- Proactive remediations
- Recommended software
- Application reliability
- Work from anywhere (preview)
- Resource performance (preview)
- Remoting connection (preview)

Overview Windows Cloud identity Cloud management Cloud provisioning

This report will replace Recommended software soon. We've improved insights and scores to help you deliver on your promise of work from anywhere.

The ability for your employees to work from anywhere and be productive is essential in today's world. This offers insights on how prepared your workforce is to be productive from anywhere. Review your score and compares to the selected baseline. Refer to the insights and recommendations to learn how to improve your work from anywhere score. [Learn more about the Work from anywhere report.](#)

Work from anywhere score

Work from anywhere score: **76** Baseline: **51**

Score categories

Capability	Score
Windows	76
Cloud identity	76
Cloud management	76
Cloud provisioning	76

Baselines aren't available for work from anywhere scores when the All organizations (median) baseline is selected. [Learn more.](#)

Windows

Capabilities that enable users to work from anywhere

60% of your Windows devices meet the hardware requirements for Windows 11. Windows 11 provides a refreshed UI and a new set of features. [Learn more.](#)

Device status	Number of devices
Meets hardware requirements	14455

Windows 11 hardware readiness insights do not impact your Work from anywhere score.

Top hardware blockers	Percent of non-upgraded devices that do not meet requirements
CPU family	27.38
TPM	16.68
System firmware	6.09
RAM	0.76
CPU bitness	0.25
CPU cores	0.22
Storage	0.21
OS version	0.00
CPU speed	0.00

Kolla kompati- biliteten?

3. PowerShell!

<https://aka.ms/HWReadinessScript>

```
Caption      : ARMV8 (64-bit) Family 8 Model 805 Revision D0E
DeviceID    : CPU0
Manufacturer : Qualcomm Technologies Inc
MaxClockSpeed : 2995
Name        : Microsoft SQ1 @ 3.0 GHz
SocketDesignation : Qualcomm
```

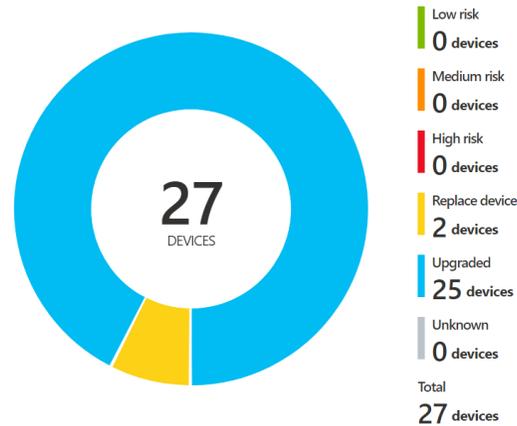
```
{"returnCode":0,"returnReason":"","logging":"Storage: OSDiskSize=476GB. PASS; Memory: System_Memory=16GB. PASS; TPM: TPMVersion=2.0, 0, 1.38. PASS; Processor: {AddressWidth=64; MaxClockSpeed=2995; NumberOfLogicalCores=8; Manufacturer=Qualcomm Technologies Inc; Caption=ARMV8 (64-bit) Family 8 Model 805 Revision D0E; }. PASS; SecureBoot: Capable. PASS; ","returnResult":"CAPABLE"}
```

Kolla kompatibiliteten?

Windows feature update device readiness report (Preview)

Columns Export

Report generated on: 2022-10-15 22:50:54



Target OS
Windows 11 - version 21H2
[Select target OS](#) [Unselect filter](#)

Scope (Tags)
Default
[Select scope tag](#) [Unselect filter](#)

Ownership
All

Readiness status
All

Generate again

Cancel

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

Showing 1 to 27 of 27 records

< Previous Page 1 of 1 Next >

Device Name ↑↓	Manufacturer ↑↓	Model ↑↓	OS Version ↑↓	Readiness status ↑↓	Sys req issues	App issues ↑↓	Driver issues ↑↓
[REDACTED]	HP	HP ZBook Studio 15.6 ...	10.0.22000.978	Upgraded		0	0
[REDACTED]	Microsoft Corporation	Cloud PC Enterprise 2v...	10.0.22621.521	Upgraded		0	0
[REDACTED]	Dell Inc.	XPS 13 9310	10.0.22000.1098	Upgraded		0	0
[REDACTED]	Microsoft Corporation	Surface Laptop 4	10.0.22000.978	Upgraded		0	0
[REDACTED]	Dell Inc.	Precision 5520	10.0.19044.2006	Replace device	Processor family	0	0

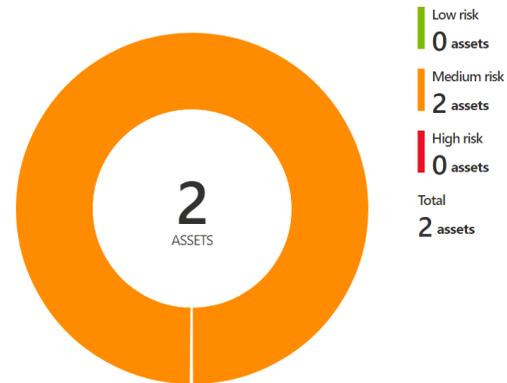
Kolla kompatibiliteten?

Windows feature update compatibility risks report (Preview)

Columns Export

Use of this report requires specific Windows licensing. [Learn more about prerequisites.](#)

Report generated on: 2022-10-15 22:54:08



Target OS

Windows 11 - version 21H2

[Select target OS](#) [Unselect filter](#)

Asset Type

All

Risk status

All

Generate again

Cancel

Search by asset name or asset vendor

Showing 1 to 2 of 2 records

< Previous

Page

1

of 1

Next >

Asset type ↑↓	Asset name ↑↓	Asset vendor ↑↓	Asset version ↑↓	Affected devices ↑↓	Risk status ↑↓	Issue
Other	Intel Bluetooth	Intel		1	Medium risk	Application is removed d...
Other	Logitech Download Assist...	Logitech		1	Medium risk	Application is removed d...

SafeGuard Holds?

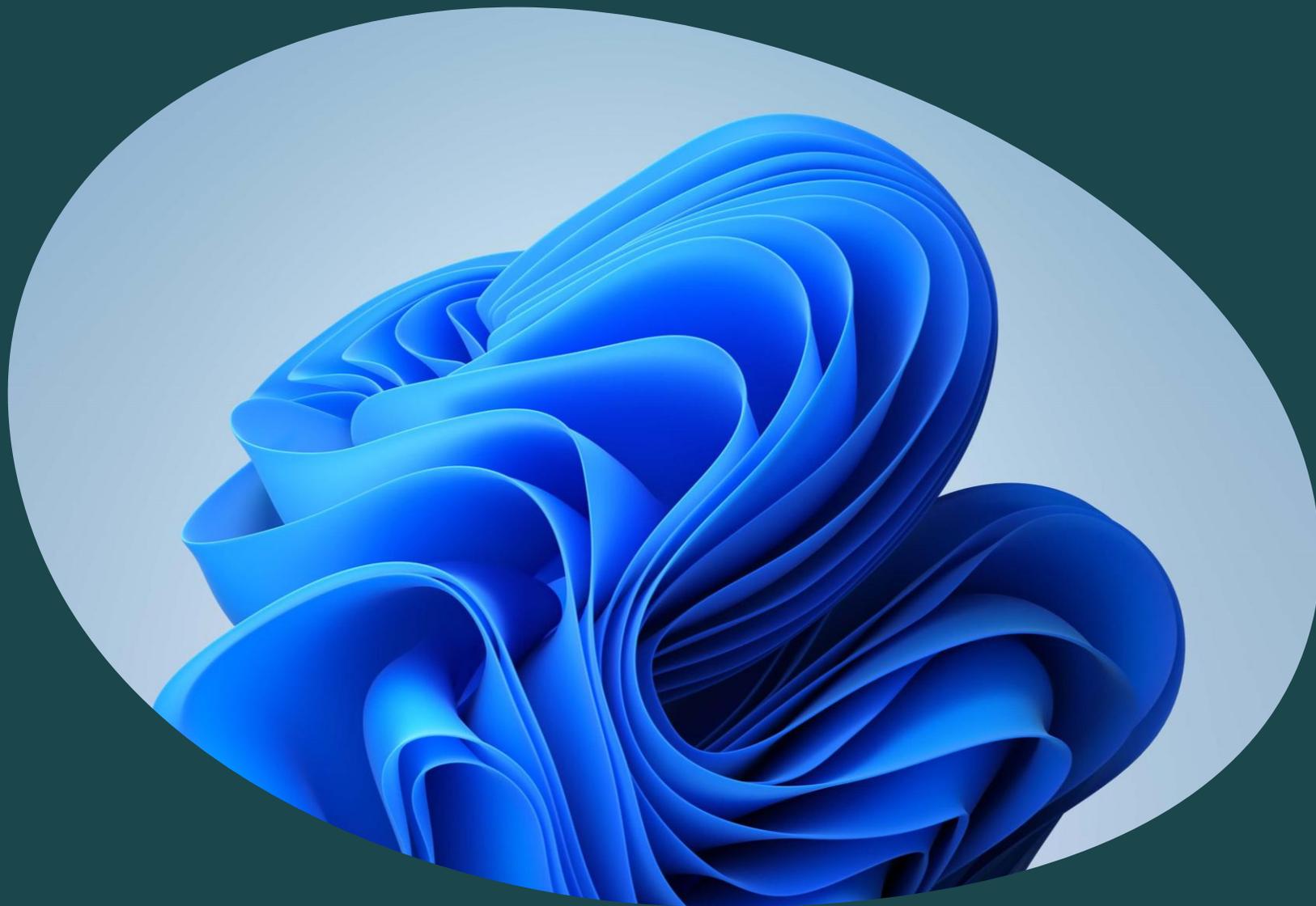
Windows 11 22H2 Release Health

<https://learn.microsoft.com/en-us/windows/release-health/status-windows-11-22h2>

SafeGuard Hold

HKLM\SOFTWARE\Microsoft\Windows
NT\CurrentVersion\AppCompatFlags\TargetVersion
UpgradeExperienceIndicators\NI22H2 =
GatedBlockID

AppName	Id	BlockType
PLAYERUNKNOWN'S BATTLEGROUNDS (Wu Offer Block)	39422774	GatedBlock
Dell devices with DW5820 WWAN module	41162607	GatedBlock
Dell Thunderbolt on XPS 13 7390 (SV1)	36123593	GatedBlock
Dell Thunderbolt on XPS 13 7390 (SV2)	41163265	GatedBlock
Devices with printer using Microsoft IPP Class Driver (Wu Offer Block)	41332279	GatedBlock
HONOR devices with Nahimic Audio	41298788	GatedBlock
HP commercial devices with AMD Barcelo platform issues with MSC	41341219	GatedBlock
IcePower Audio	41298808	GatedBlock
Intel IntcAudioBus.sys (SV1)	36899911	GatedBlock
Intel IntcAudioBus.sys (SV2)	41291788	GatedBlock
Intel IntcOED.sys (SV1)	36899875	GatedBlock
Intel IntcOED.sys (SV2)	41291773	GatedBlock
Lenovo AMD devices that bugcheck during power transition	38573475	GatedBlock
Lenovo Rigel device	37682047	GatedBlock
Microsoft Teams Room (Wu Offer Block) - 21H1	32490461	GatedBlock
Secure Launch data not migrated on IceLake(Client), TigerLake, AlderLake devices (Wu Offer Block)	40667045	GatedBlock
SQL Server unusable with Samsung drives (Wu Offer Block)	37395288	GatedBlock
Test - Gated Block entry		GatedBlock
Troubleshooter - Engineer-Initiated Test	31295299	GatedBlock
Troubleshooter - System-Initiated Test Async	32379233	GatedBlock



Deployment

Deployment

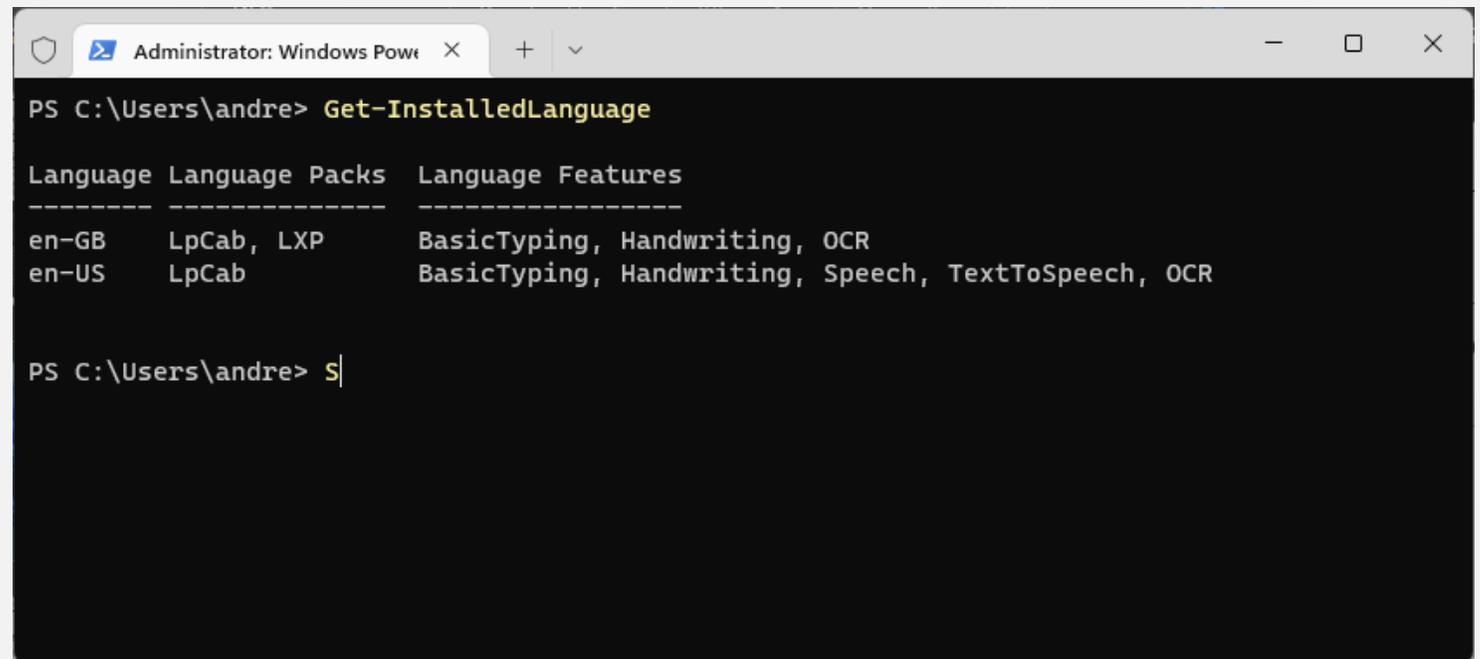
- “Major upgrade” – dvs inget “enablement package”
- Uppgraderas som vanligt via:
 - Windows Update
 - Windows Update for Business
 - WSUS
 - SCCM eller tredjepartsverktyg
 - MDT
 - <https://learn.microsoft.com/en-us/mem/configmgr/mdt/known-issues>
 - **EXTRA:** Domain join efter oktober-patcharna

Deployment

- Windows 11 Pro kräver **internetanslutning = MS-konto eller arbets-/skolkonto**
- Installationsmedia innehåller VMware-drivrutinerna VMware PVSCSI och VMXNET3
 - <https://core.vmware.com/blog/windows-11-inbox-vmware-drivers>

Deployment

- PowerShell för att hantera språk
 - Install-Language
 - Get-InstalledLanguage
 - Get-SystemPreferredUILanguage
 - Set-PreferredLanguage
 - Med flera...



```
Administrator: Windows PowerShell
PS C:\Users\andre> Get-InstalledLanguage

Language Language Packs Language Features
-----
en-GB    LpCab, LXP      BasicTyping, Handwriting, OCR
en-US    LpCab           BasicTyping, Handwriting, Speech, TextToSpeech, OCR

PS C:\Users\andre> $
```

Optimerade Uppdateringar

Snabbare, Mindre och optimerade uppdateringar

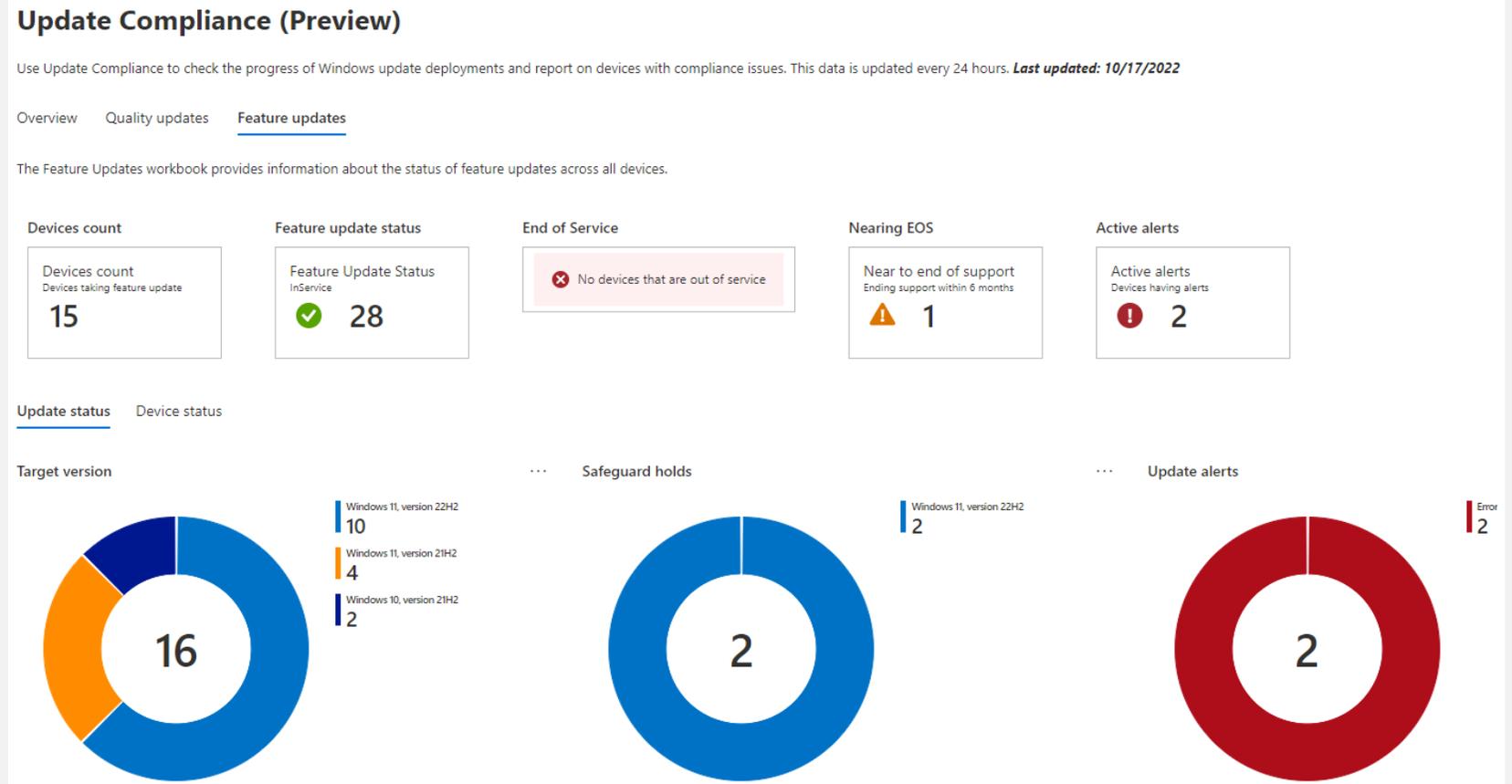
- Minskad nedladdning: ~450MB / 14%
 - Mindre diskutrymme: ~399MB / 8%
 - Mindre diskbelastning ~849MB or 11%
 - Mindre avbrott ~21%
-
- 43 LXP borttagna

<https://techcommunity.microsoft.com/t5/windows-it-pro-blog/faster-smaller-windows-11-version-22h2-update-fundamentals/ba-p/3631894>

Deployment

Update Compliance workbooks ersätter Analytics-versionen Update Compliance. **Hybrid** eller **Azure AD Join** krävs.

Aktivera via **admin.microsoft.com > Health > Software updates**.



Windows 365 & AVD

Welcome, Torbjörn Granheden (Co

Quick actions

Take the tour

Skipped the tour? Take it to get familiar

Your Cloud PCs



Mr-Tbone's CloudPC

Last connected 5 days ago

Windows 11

2 vCPU

8 GB RAM

128 GB Storage

Connect

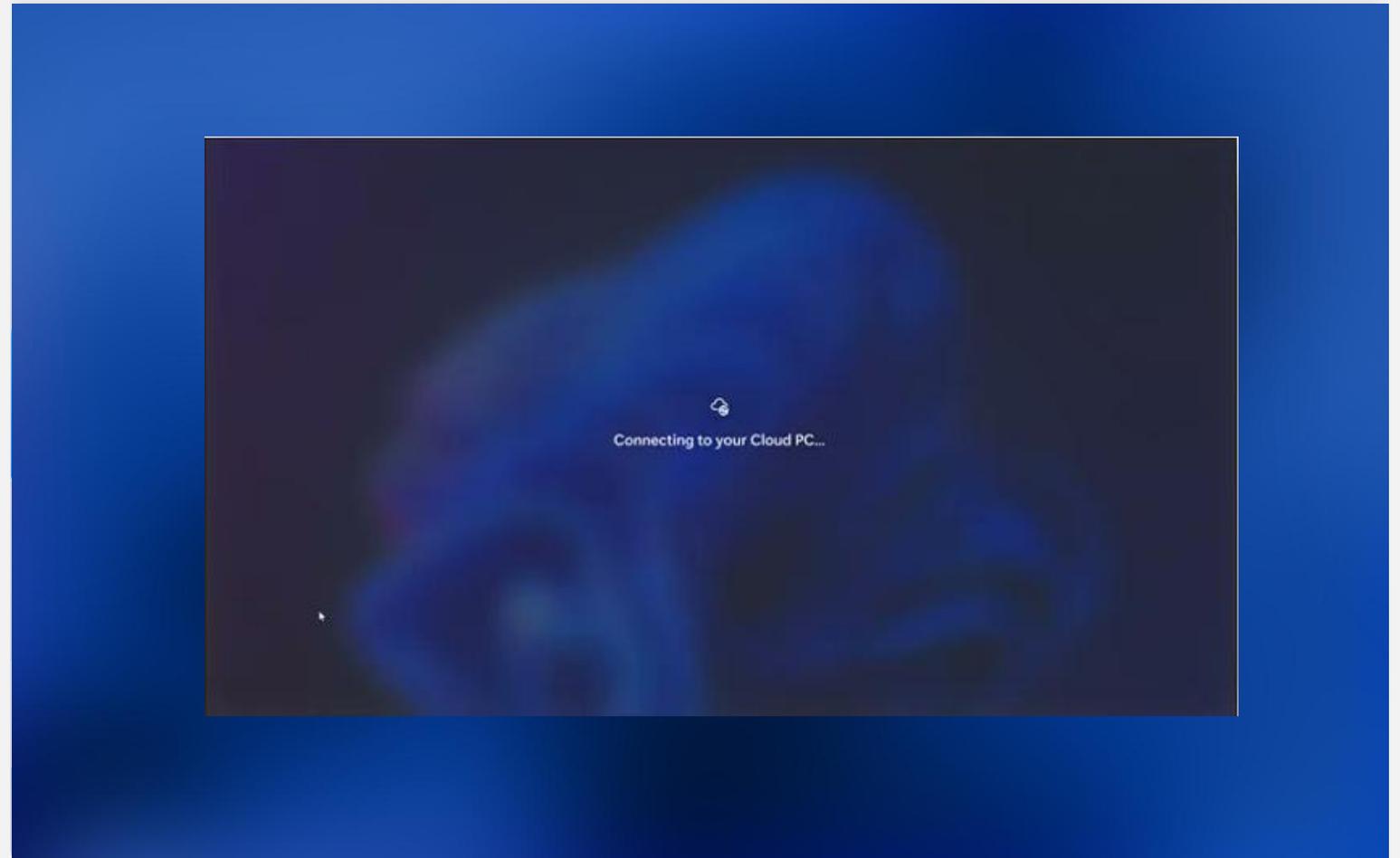
Windows 365 och Azure Virtual Desktop

- Windows 11 22H2 images
- Trusted Launch

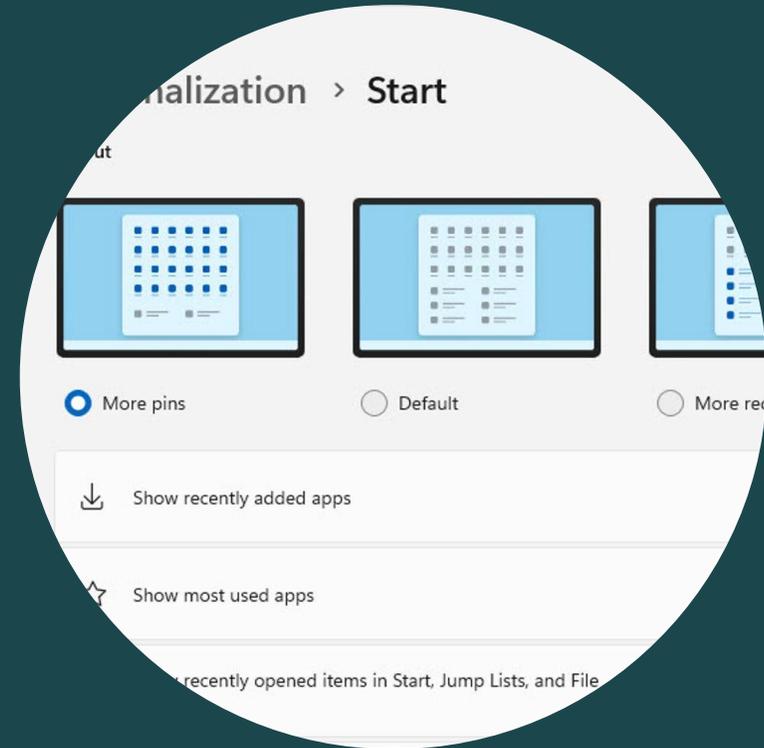
- Autentisering – SSO/Passwordless
 - På G för AVD
 - Finns för Windows 365

- Printer i användarens profil
 - Printer i roaming profile
 - Sökning efter lokal printer sker i anslutande enhets plats
-
- Known Issue!
 - Printer tas bort från alla!

Windows 365 App
Windows 365 Switch
Windows 365 Offline
Windows 365 Boot



Användargränssnittet



Användargränssnittet

- Förbättringar för aktivitetsfältet – Drag and drop
- Gruppering av appar i startmenyn + anpassningsmöjligheter
- Focus assist => Do not disturb + fler inställningar
- Task Manager / Aktivitetshanteraren
- Live caption - Diktering av text i Windows
- Snap har nu siffror + bar i överkant
- Dela fönster i Teams via Taskbar.
- Voice access Settings > Accessibility > Speech

DEMO

Smått och gott i gränssnittet



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- Flikar
- Favoriter
- Sök
- Öppna med
- Onedrive integrering
- Nearby sharing

DEMO

File Explorer

Flikar

Favoriter

Sök

Öppna med

Onedrive integrering

Nearby sharing



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Snabb- genvägar

Tangentbordskombinationer	Vad gör den
Windows key + Alt + K	Mute:ar mikrofonen
Windows key + Ctrl + L	Live captions – textar det som sägs i videos eller när du pratar
Windows + Z (+ numbers)	Snap
Ctrl + Shift + C	Kopierar sökvägen till den fil du har markerat
Ctrl + T	Ny Tab i File Explorer
Ctrl + W	Stäng Tab i File Explorer
Alt + E	Taskmanager – Avsluta vald process
Alt + N	Taskmanager – Öppna ny process
Alt + V	Taskmanager – Stäng av eller sätt på Efficiency Mode

Klimat och Energi

& battery



Charged: 44min

Battery levels

100%

50%

10:00



When brightness is set to High, which uses more power than usual

[Reduce brightness](#)

Klimat och energi

Windows Update



You're up to date

Last checked: Today, 10:32

Check for updates

More options



Pause updates

Pause for 1 week



Update history



Advanced options

Delivery optimization, optional updates, active hours, other update settings



Windows Insider Program

Get preview builds of Windows to share feedback on new features and updates



Windows Update is committed to helping reduce carbon emissions. [Learn more](#)

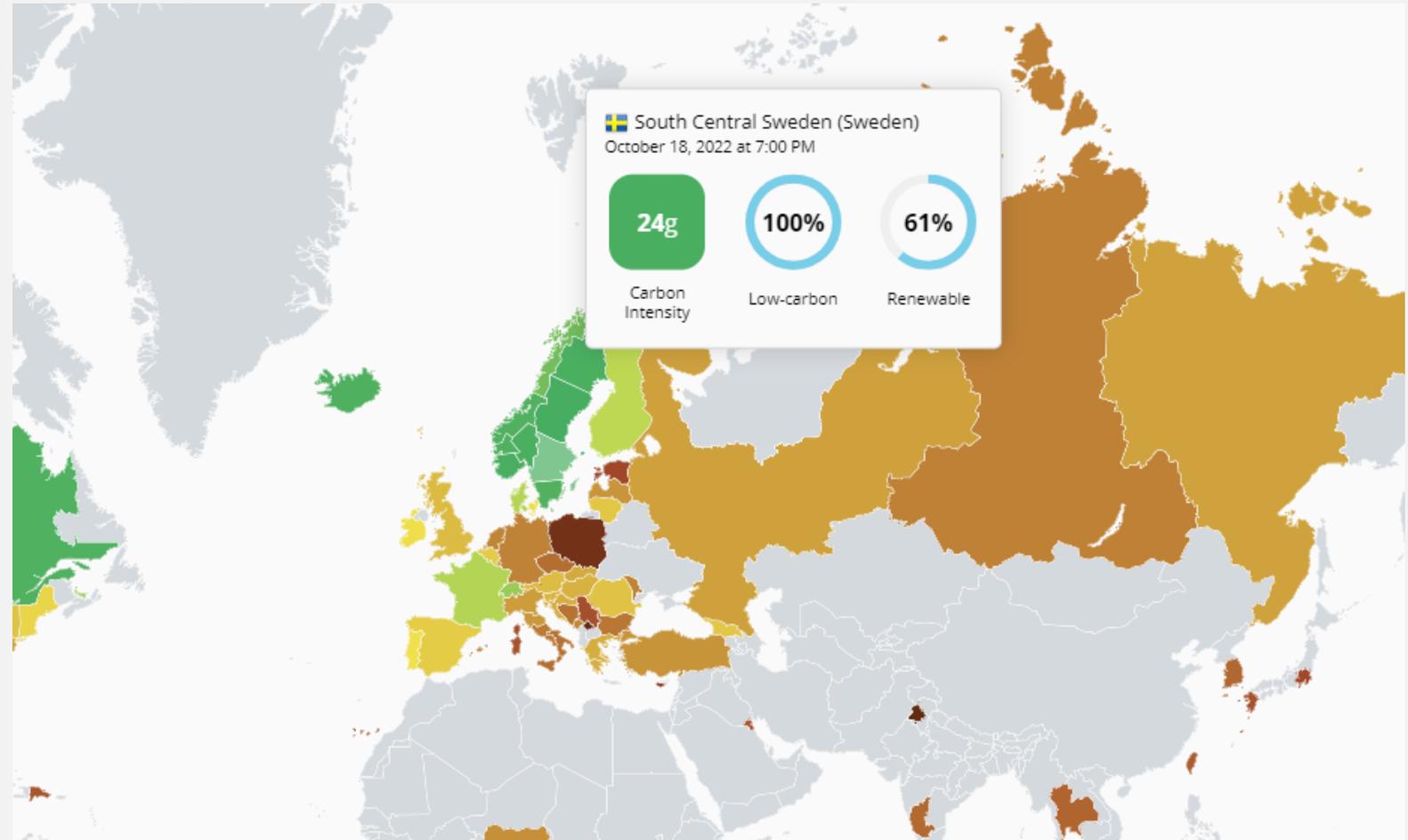


[Get help](#)



[Give feedback](#)

Klimat och energi



Klimat och energi

System > Power

 The period of time when your screen turns off and device goes to sleep are different, which uses more power and results in higher carbon emissions.



 [Make both times the same](#)

 Screen and sleep 

When plugged in, turn off my screen after

3 minutes 

When plugged in, put my device to sleep after

10 minutes 



Power consumption and carbon emissions

Learn how choosing efficient power settings can help you use less energy, improve battery life, and reduce carbon impact



Klimat och energi

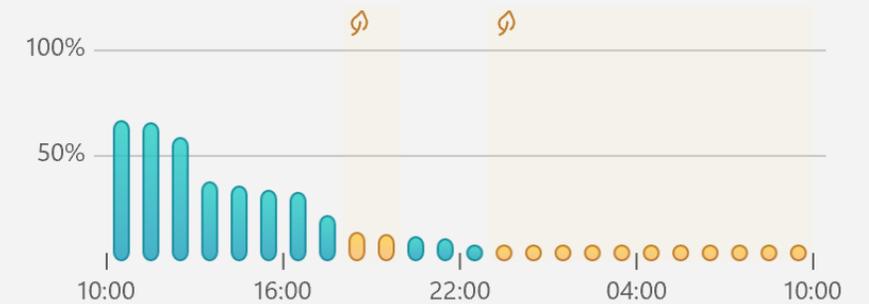
System > Power & battery

18% 

Time until fully charged: 44min

Battery levels

[View detailed info](#)



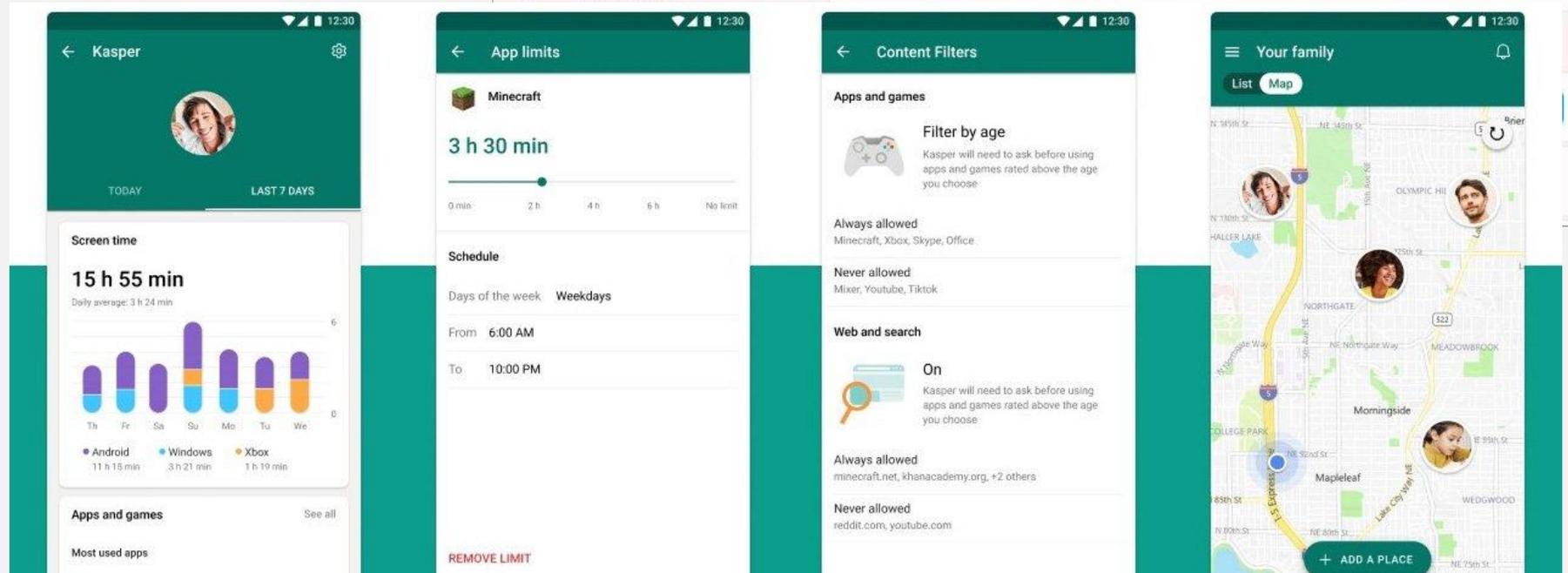
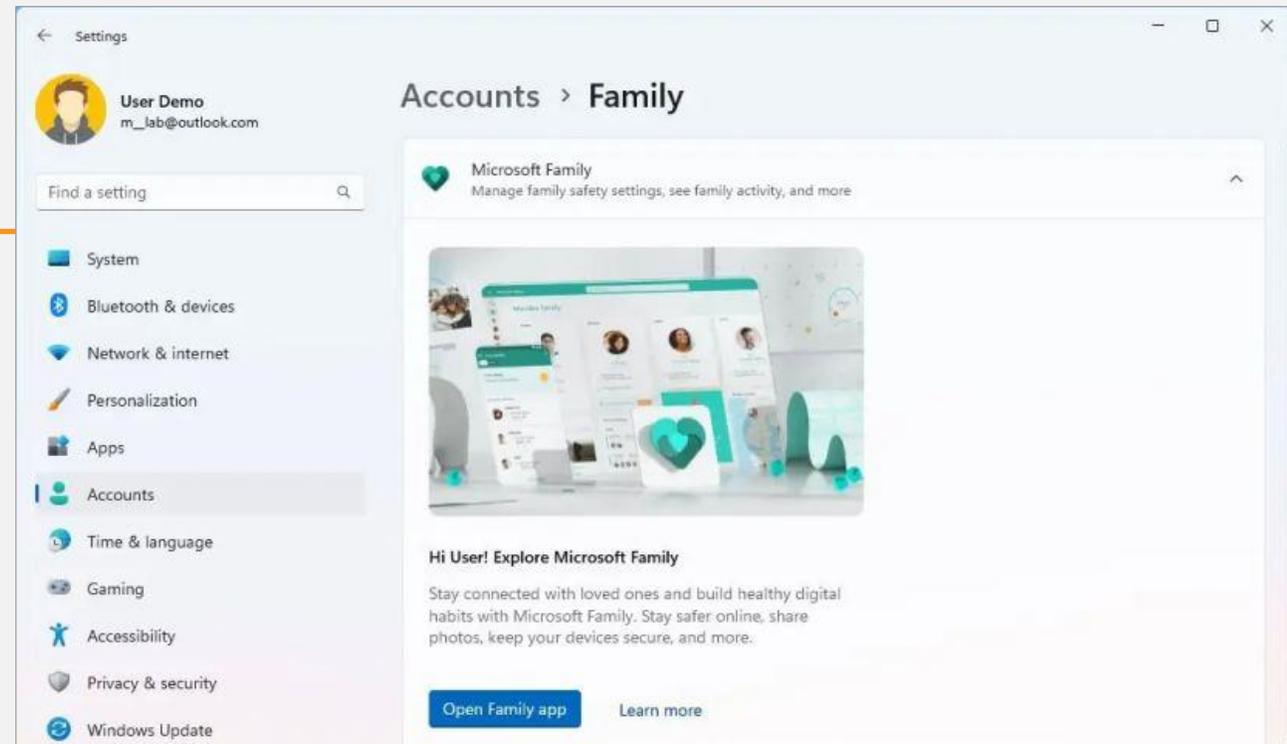
 Your screen brightness is set to High, which uses more power than usual and increases carbon emissions.

 [Lower the brightness](#)



Appar (och Applikationer)

- Clipchamp
- Family Safety
- Phone Link



- Ny design
 - Open App Store Principles
 - Microsoft Store Ads
 - Återställ dina appar på ny enhet
-
- Windows Store For Business
 - Extra license – Intune Premium

Automated app patching and packaging

 1 day left in trial

Helps admins create a catalog of third-party apps to manage app updates including review, approval, deployment, and monitoring.

[View details](#)

Android apps

- Amazon app store
- 20,000 appar och spel
- 8GB RAM / 16GB rek
- CPU med Virtualisering
- Amazon konto
- Snart 31 länder

- Andorra
- Austria
- Belgium
- France
- Germany
- Gibraltar
- Guernsey
- Ireland
- Isle of Man
- Italy
- Japan
- Jersey
- Liechtenstein
- Luxembourg
- Monaco
- San Marino
- Spain
- Switzerland
- United Kingdom
- United States
- Vatican City/Holy See

Windows Package Manager

Winget.exe blir **universellt** sätt att installera **alla typer** av applikationer i Windows oavsett format: **EXE, MSI, MSIX**, PWA m.m.

“**winget.exe** install Microsoft.Teams”

Repositories – publikt eller **internt**

NYTT: 1.4 – Installera från zip

NYTT: Native in PowerShell 6/7

Surface 22H2



Surface Pro 9 Microsoft SQ3 - Neural Processing Unit (NPU) Optimized for AI
Portrait blur – Automatic framing – Eye contact – **Voice Focus**

DEMO

Appar (och Applikationer)



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Management

Connected by torbjorn.granhede
Connected to Coligo AB's Azure AD

Managed by Coligo AB

Disconnect this account

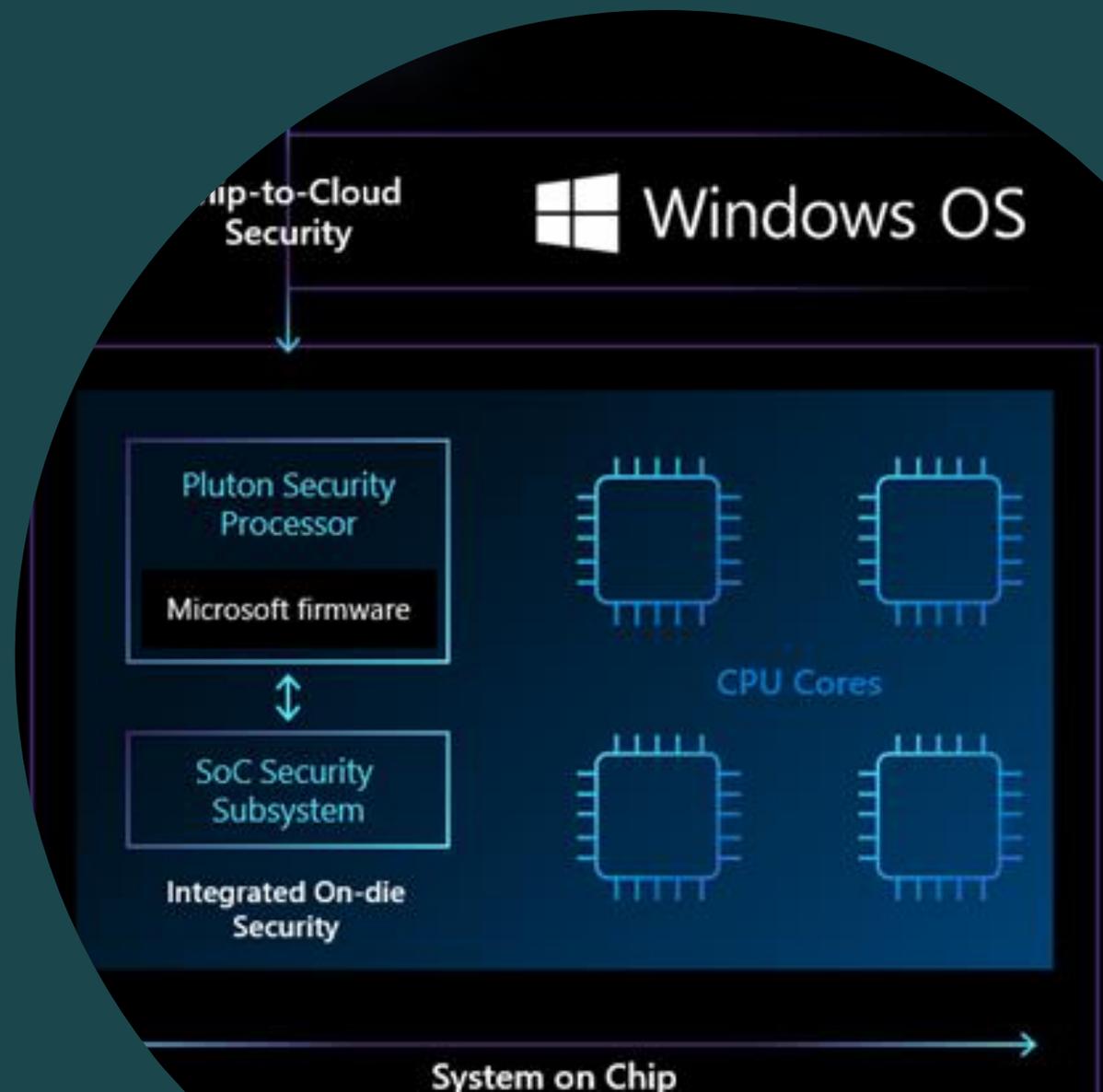
Links

[Manage your account](#)

Management

- Massor med nya inställningar via MDM
 - <https://learn.microsoft.com/en-us/windows/client-management/new-in-windows-mdm-enrollment-management>
- Massor med nya inställningar via GPO
 - <https://www.microsoft.com/en-us/download/details.aspx?id=104594>
- Exempel: Ta bort alla Windows Update-notifieringar under Active hours.

Säkerhet



Säkerhet

- Windows Hello for Business **Cloud Trust!** *Nu **General Availability** sedan Ignite.*
 - Förenklar Windows Hello for Business enormt mycket
- Pluton
 - En kryptoprocessor inbyggd i en enhets vanliga processor.

Säkerhet

- Säkerhetsnivån höjs – detta är nu standard:
 - Credential Guard.
 - Hypervisor-protected code integrity (HVCI) (Memory integrity) på som standard.
 - Microsoft vulnerable driver blocklist.
- Security baseline för 22H2, exempel:
 - Kernel Mode Hardware Enforced Stack Protection
 - Disable NetBIOS name resolution on public networks
 - Configure DNS over HTTPS (DoH) name resolution
 - Enhanced Phishing Protection

+ mer

<https://techcommunity.microsoft.com/t5/microsoft-security-baselines/windows-11-version-22h2-security-baseline/ba-p/3632520>

Säkerhet

- Smart App Control – AppLocker på Steroider
 - Aktiveras i loggningsläge som standard.
 - Endast på nyinstallerade eller resettade datorer – kan inte aktiveras på uppgraderade datorer.
 - citool.exe

Säkerhet

- Config Lock (introduced in 21H2)
- Smart card authentication direkt mot Azure AD – inget mer ADFS!
- Endpoint Privilege Management
- *Authentication Strength* i CA-ramverket
 - FIDO2 eller WHfB
- SmartScreen Enhanced Anti-phishing

Säkerhet

Windows Security

Password reuse is a security risk

Your organization prefers that you use strong, unique passwords to keep your information safe. If your password is stolen from this site, attackers can use it to break into your work or school account too.

Your organization recommends changing your work or school password.

[Why am I seeing this?](#)

[Change my password](#) [Got it](#)

Windows Security

This app made an unsafe connection that was reported to Microsoft for stealing passwords

Your organization recommends changing your work or school password to keep your account safe.

[Why am I seeing this?](#)

[Change my password](#) [Got it](#)

Windows Security

It's unsafe to store your password in this app

Your organization considers it unsafe to store your password in this app and recommends removing your password from this file.

[Learn more about securing your passwords](#)

[Got it](#)

DEMO

Säkerhet

Smart App Control



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Known Issues



Your PC ran into a problem that it couldn't handle, and now it needs to restart.

You can search for the error online: `HAL_INITIALIZATION_FAILED`

Known Issues

- Always On VPN still buggy

- RDP connect and reconnect

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows NT\Terminal Services\Client\{fClientDisableUDP DWORD 1

- Telia TouchPoint

- Release Health

- Printing
- Provisioning packages

A top-down view of a desk with a laptop, a cup of coffee, glasses, and a notebook. The laptop is on the left, the coffee cup is at the top center, the glasses are in the middle, and the notebook is at the bottom left.

Årets extra tips

<https://aka.ms/commands>

`shutdown.exe /r /fw /t 0`

Sammanfattning

- En hel del nyheter, både på ytan men även under ytan.
- Börja utvärdera – idag!

Tack

Tips på vidareutveckling:

[T2265] - Windows 11 - What's New, Get ready, Deploy and Manage!

[T2267] - Intune-based Windows 11 – Native cloud-only client platform

[T2264] - Microsoft Multi-Factor Authentication and Conditional Access

[T2269] - Manage Windows 10/11 using Intune

[T2261] - Windows 10/11 Advanced troubleshooting and supporting



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