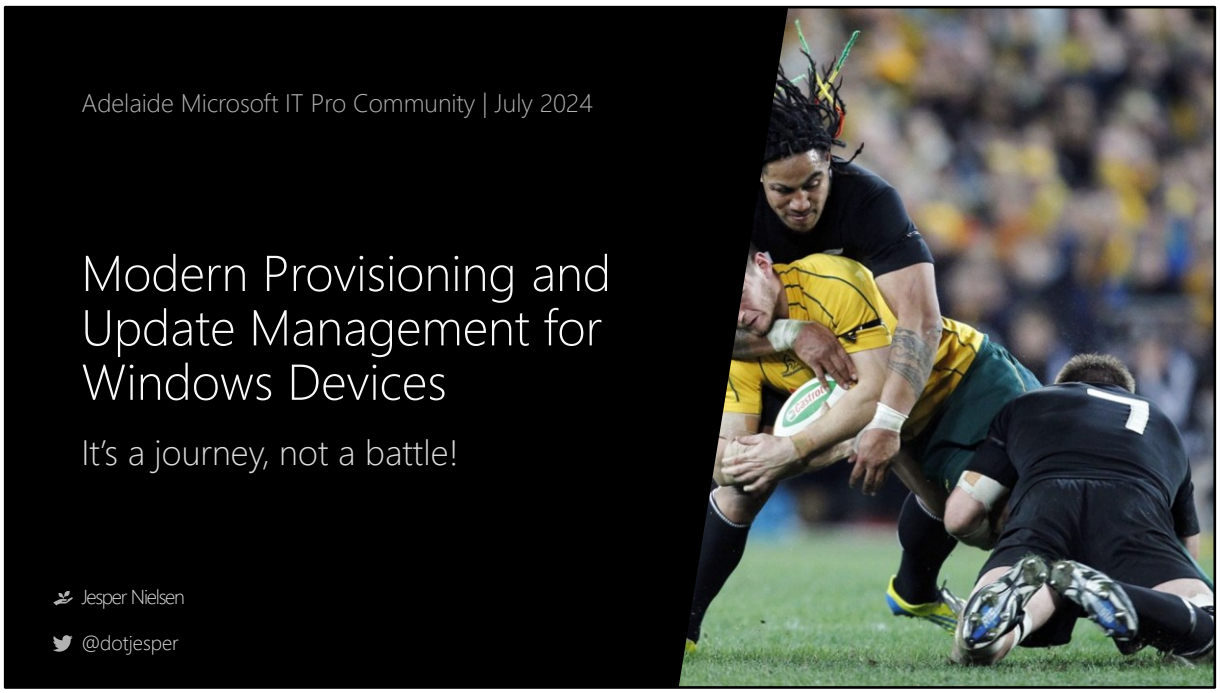

Slide 1 [00:00:00]

Walk-in

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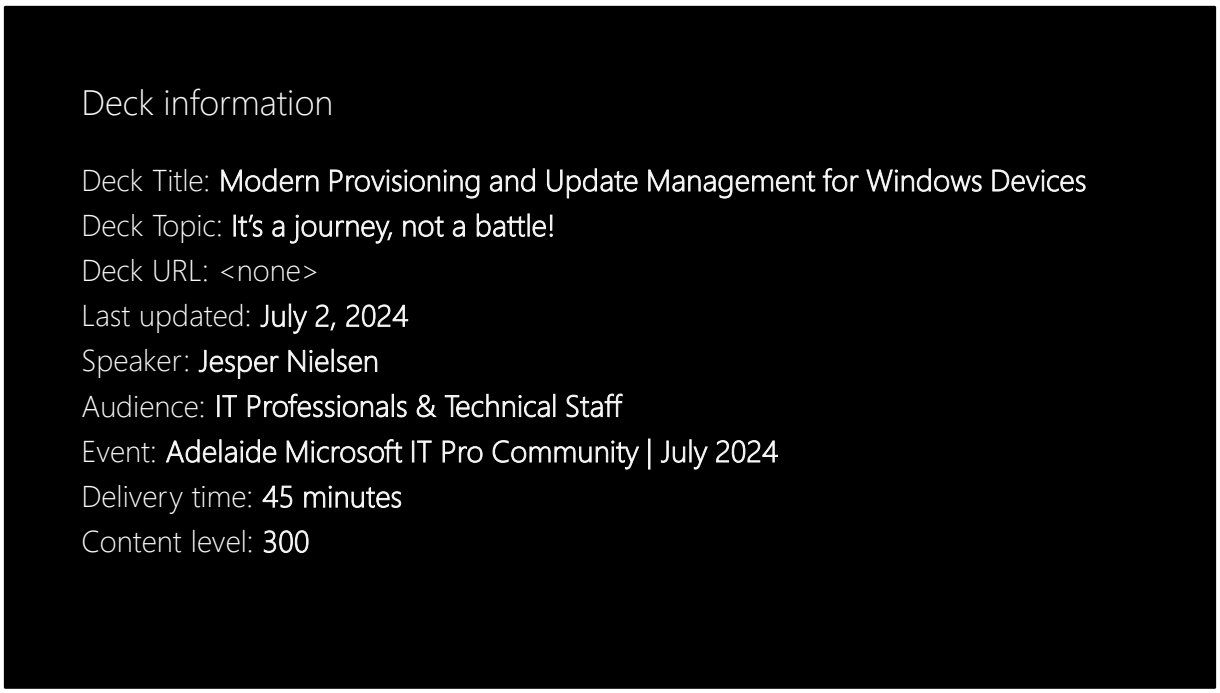

Slide 2 [Hidden]

Deck information

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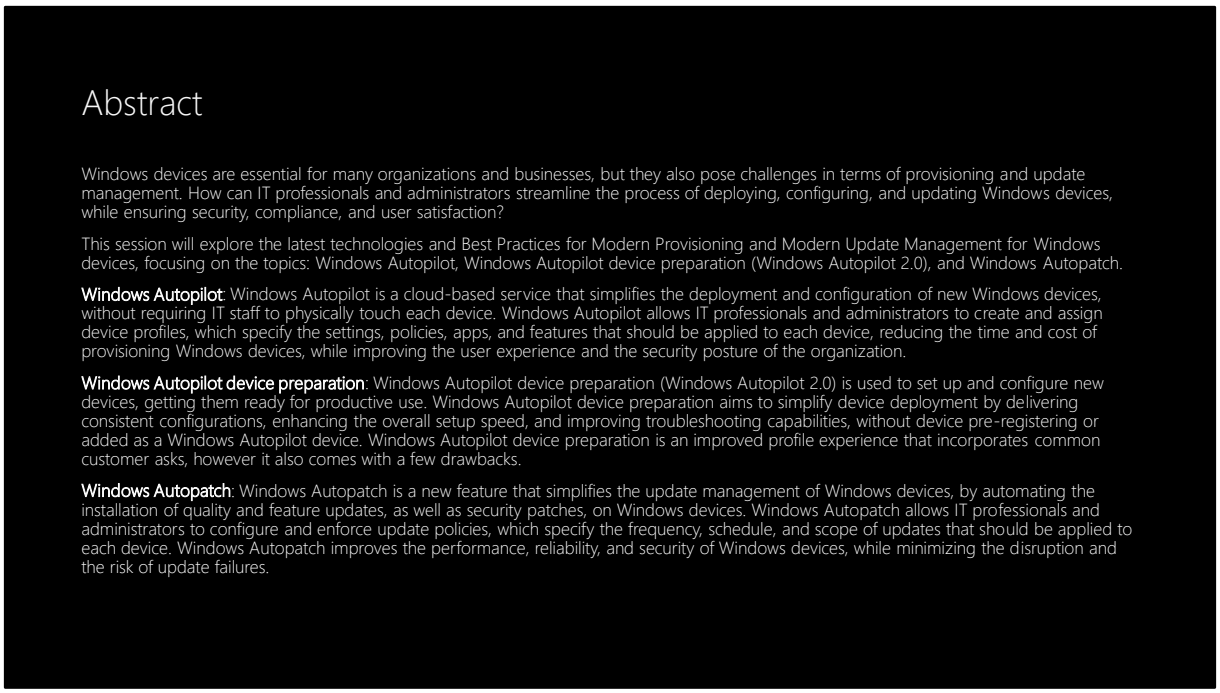

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Abstract

Windows devices are essential for many organizations and businesses, but they also pose challenges in terms of provisioning and update management. How can IT professionals and administrators streamline the process of deploying, configuring, and updating Windows devices, while ensuring security, compliance, and user satisfaction?

This session will explore the latest technologies and Best Practices for Modern Provisioning and Modern Update Management for Windows devices, focusing on the topics: Windows Autopilot, Windows Autopilot device preparation (Windows Autopilot 2.0), and Windows Autopatch.

Windows Autopilot: Windows Autopilot is a cloud-based service that simplifies the deployment and configuration of new Windows devices, without requiring IT staff to physically touch each device. Windows Autopilot allows IT professionals and administrators to create and assign device profiles, which specify the settings, policies, apps, and features that should be applied to each device, reducing the time and cost of provisioning Windows devices, while improving the user experience and the security posture of the organization.

Windows Autopilot device preparation: Windows Autopilot device preparation (Windows Autopilot 2.0) is used to set up and configure new devices, getting them ready for productive use. Windows Autopilot device preparation aims to simplify device deployment by delivering consistent configurations, enhancing the overall setup speed, and improving troubleshooting capabilities, without device pre-registering or added as a Windows Autopilot device. Windows Autopilot device preparation is an improved profile experience that incorporates common customer asks, however it also comes with a few drawbacks.

Windows Autopatch: Windows Autopatch is a new feature that simplifies the update management of Windows devices, by automating the installation of quality and feature updates, as well as security patches, on Windows devices. Windows Autopatch allows IT professionals and administrators to configure and enforce update policies, which specify the frequency, schedule, and scope of updates that should be applied to each device. Windows Autopatch improves the performance, reliability, and security of Windows devices, while minimizing the disruption and the risk of update failures.

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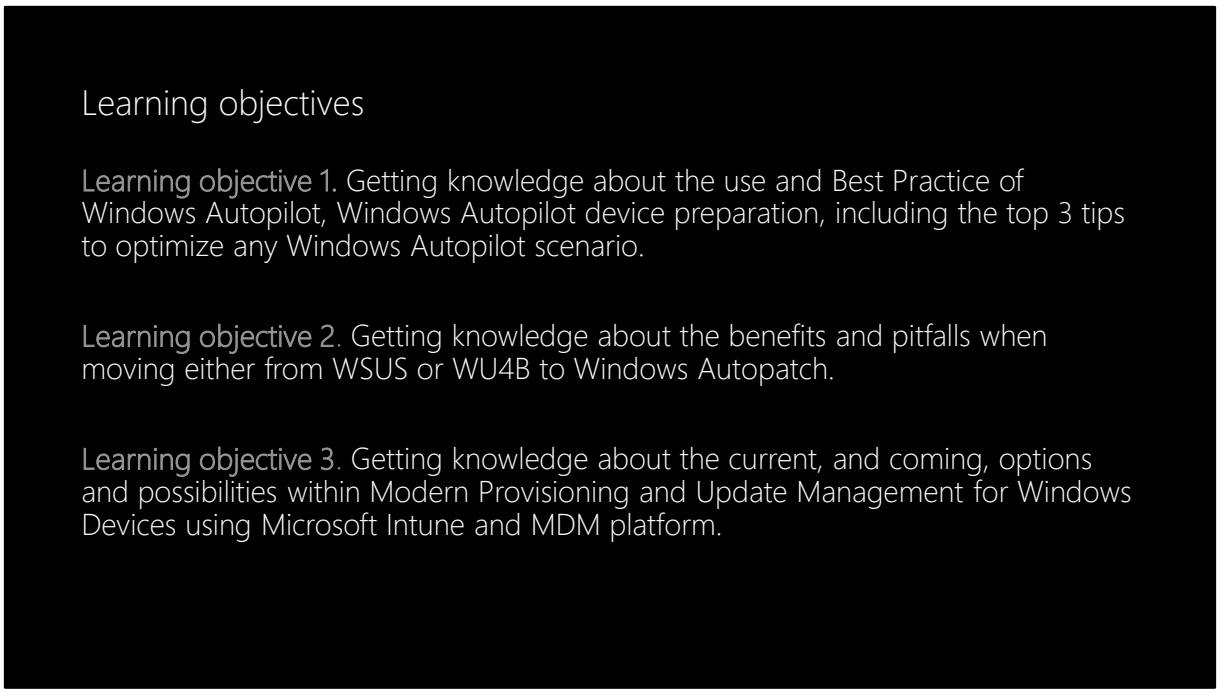

Slide 4 [Hidden]

Learning objectives

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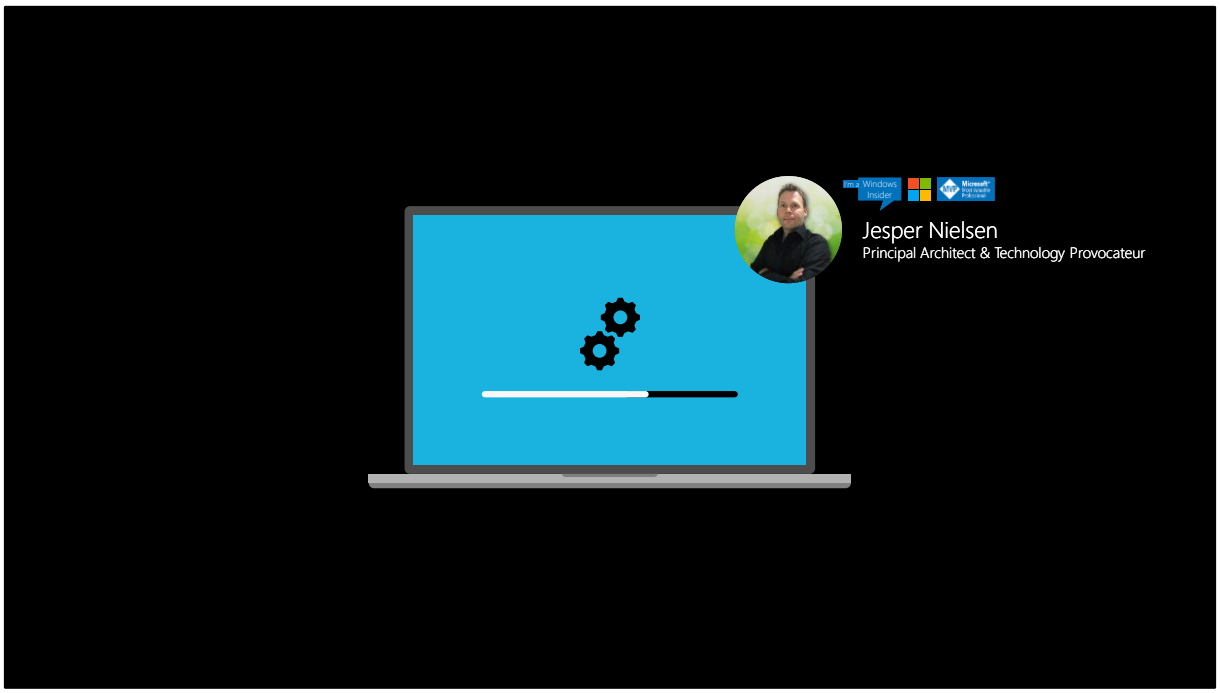

Slide 5 [00:00:00]

Booting…

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Slide 6 [00:00:00]

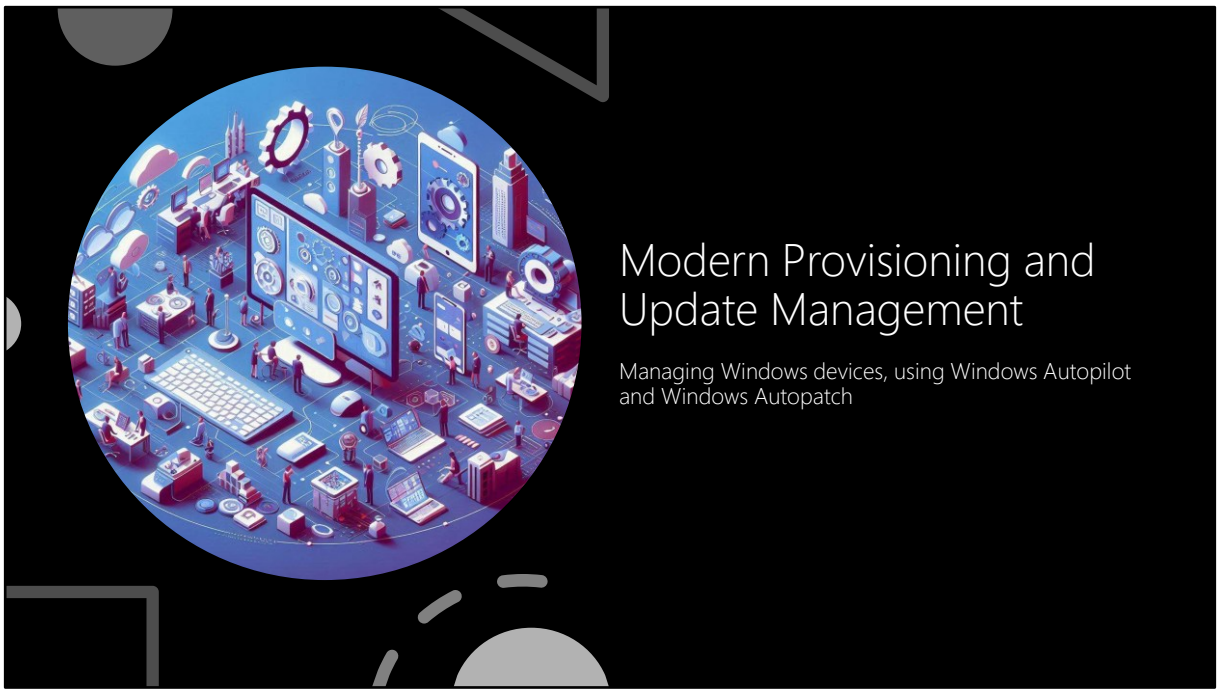
Where you are…

//

Slide 7 [00:00:00]

Where I am…

//



Slide 8 [00:00:00]

Modern Provisioning and Update Management

Managing Windows devices, using Windows Autopilot and Windows Autopatch.

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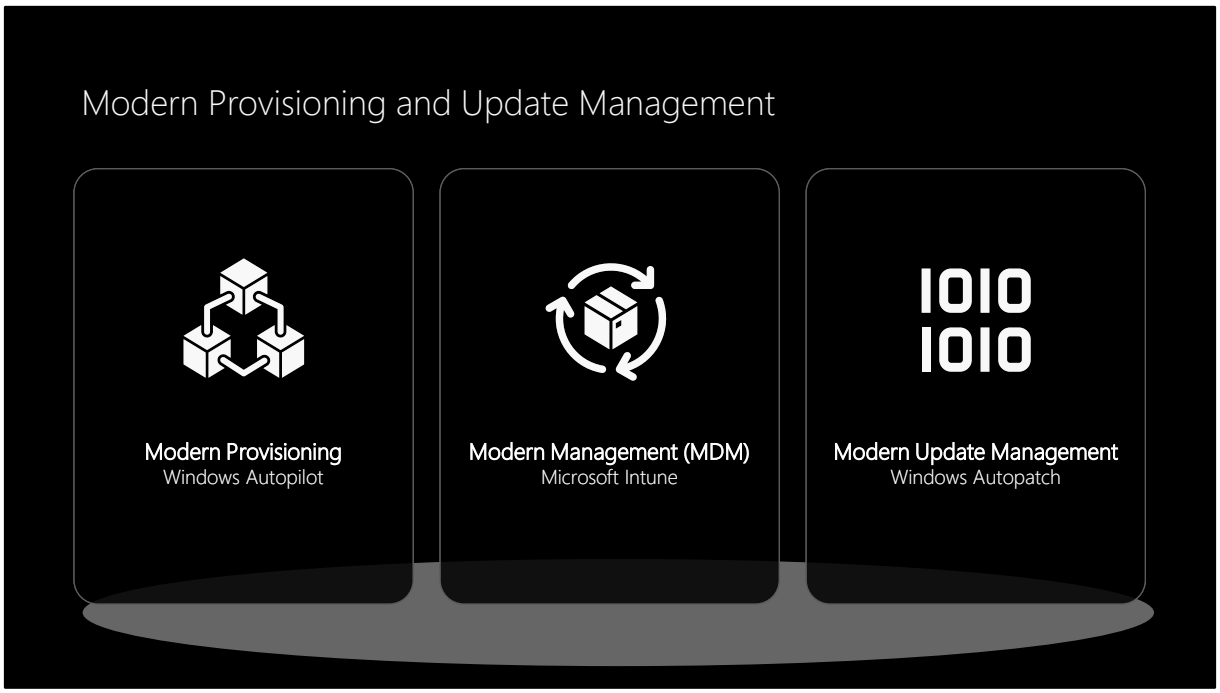

Slide 9 [00:00:00]

Modern Provisioning and Update Management

- Modern Provisioning - Windows Autopilot
- Modern Management (MDM) - Microsoft Intune
- Modern Update Management Windows Autopatch

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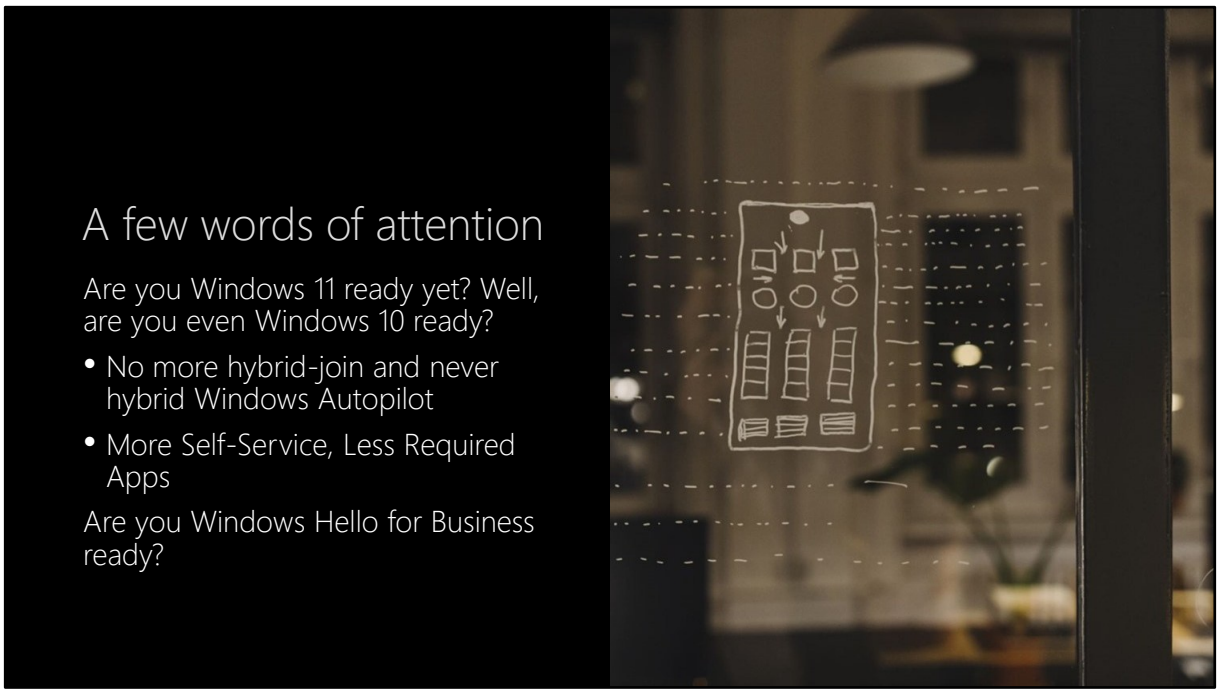

Slide 10 [00:00:00]

A few words of attention

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Slide 11 [00:00:00]

Autopilot – Today

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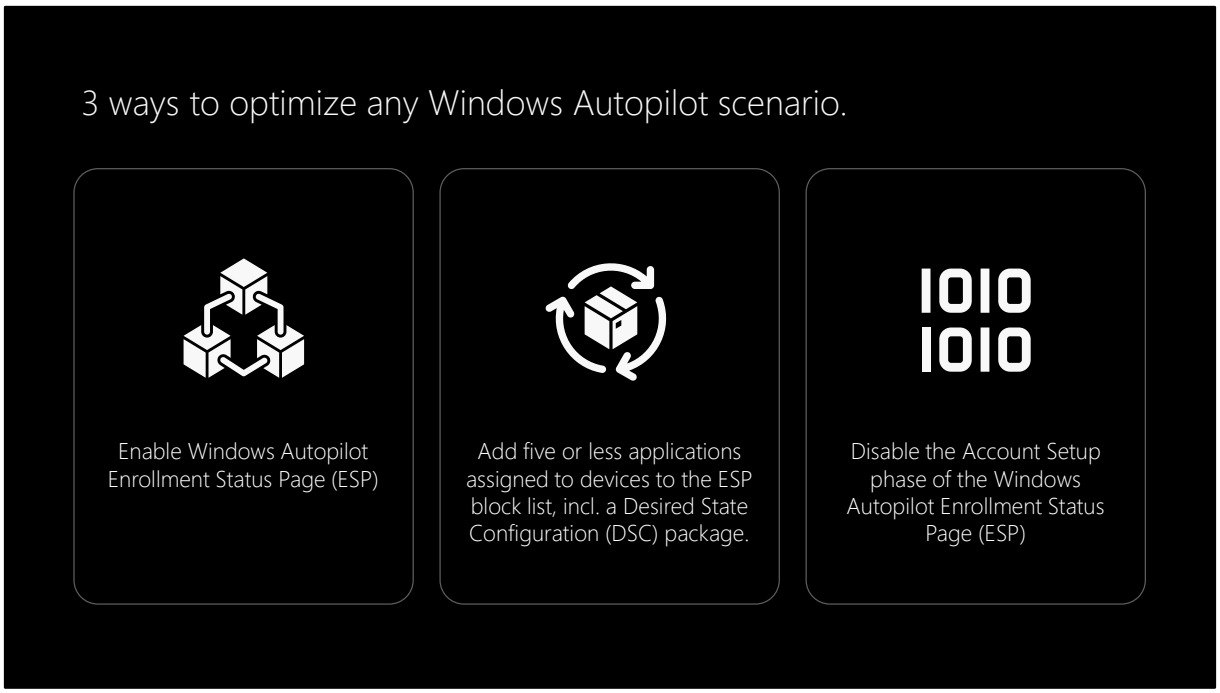

Slide 12 [00:00:00]

3 ways to optimize any Windows Autopilot scenario

- Enable Windows Autopilot Enrollment Status Page (ESP).
- Add five or less applications assigned to devices to the ESP block list, incl. a Desired State Configuration (DSC) package *.
- Disable the Account Setup phase of the Windows Autopilot Enrollment Status Page (ESP)

*) Need a Desired State Configuration (DCS) package, see the **Windows gecko** project, try it out or get inspiration: https://github.com/dotjesper/windows-gecko/

//

Slide 13 [00:00:00]

Ensure to be Windows Autopilot ready

- Be Windows 11 ready – and Windows 10 ready
- Windows Hello for Business - Controlled rollout
- Enroll all existing devices into Windows Autopatch - Replace WSUS

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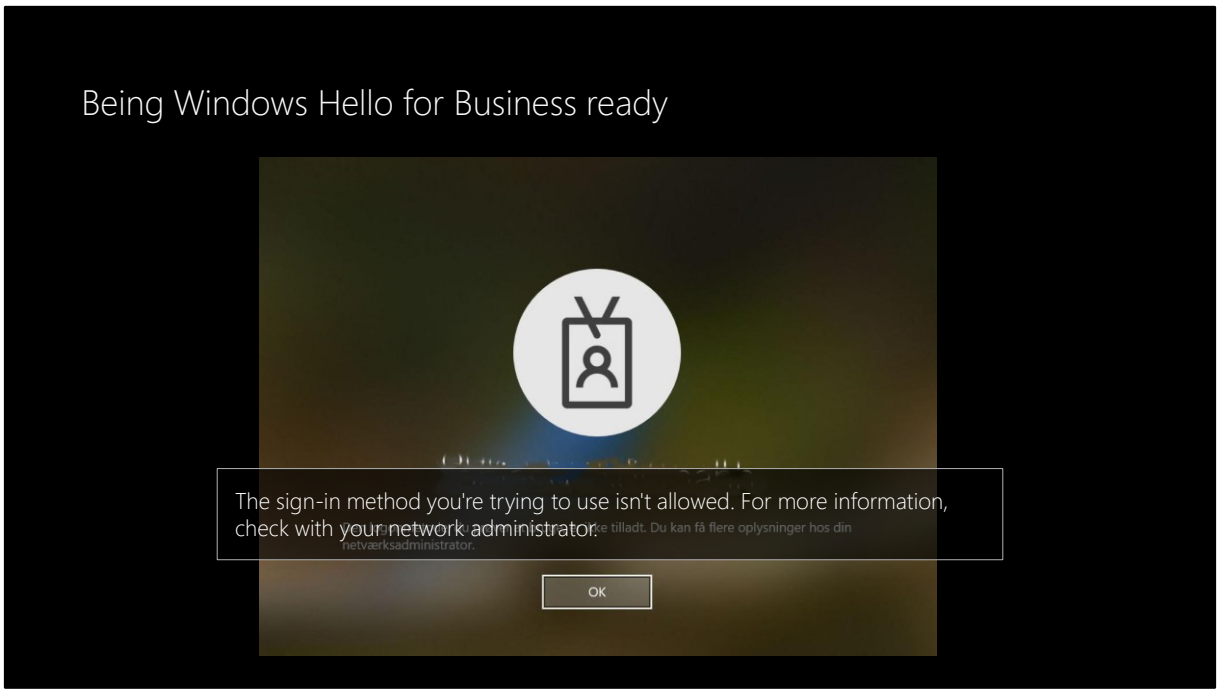

Slide 14 [00:00:00]

Windows Hello for Business ready

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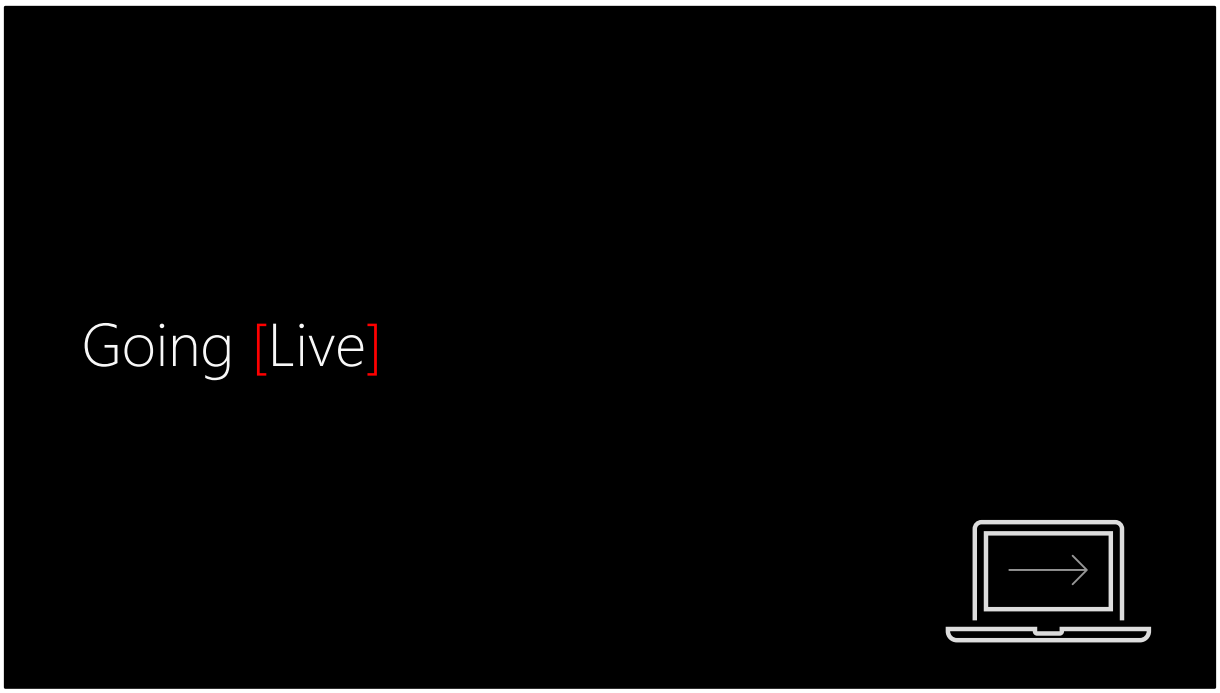

Slide 15 [00:00:00]

3 ways to optimize any Windows Autopilot scenario

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Ensure to be Windows Autopilot ready

- Be Windows 11 ready – and Windows 10 ready
- Windows Hello for Business - Controlled rollout
- Enroll all existing devices into Windows Autopatch - Replace WSUS

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Slide 16 [00:00:00]

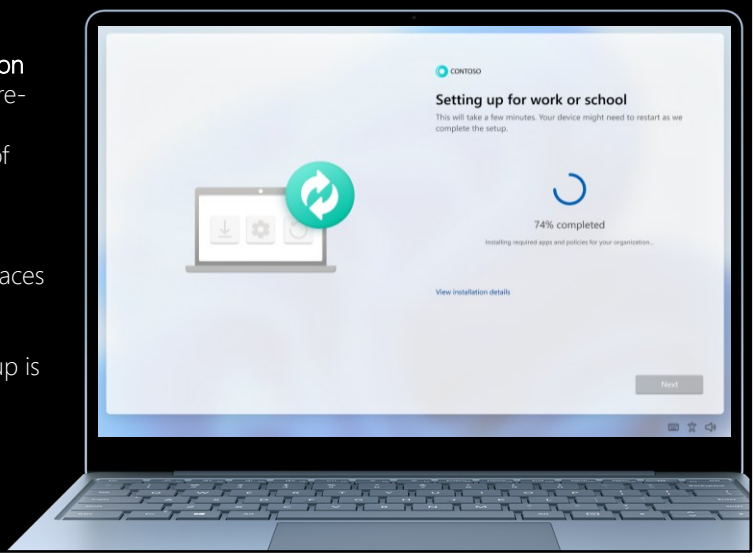
Windows Autopilot device preparation
Windows Autopilot 2.0

//

Windows Autopilot - Tomorrow

Windows Autopilot device preparation

- Does not require hash-value or pre-registering (ish).
- Simplified OOBE view – show % of progress.
- More consistent experience with consumer flows.
- Improved grouping experience places devices in a group at the time of enrollment.
- Informs user when the OOBE setup is complete.



Slide 17 [00:00:00]

Autopilot – Tomorrow

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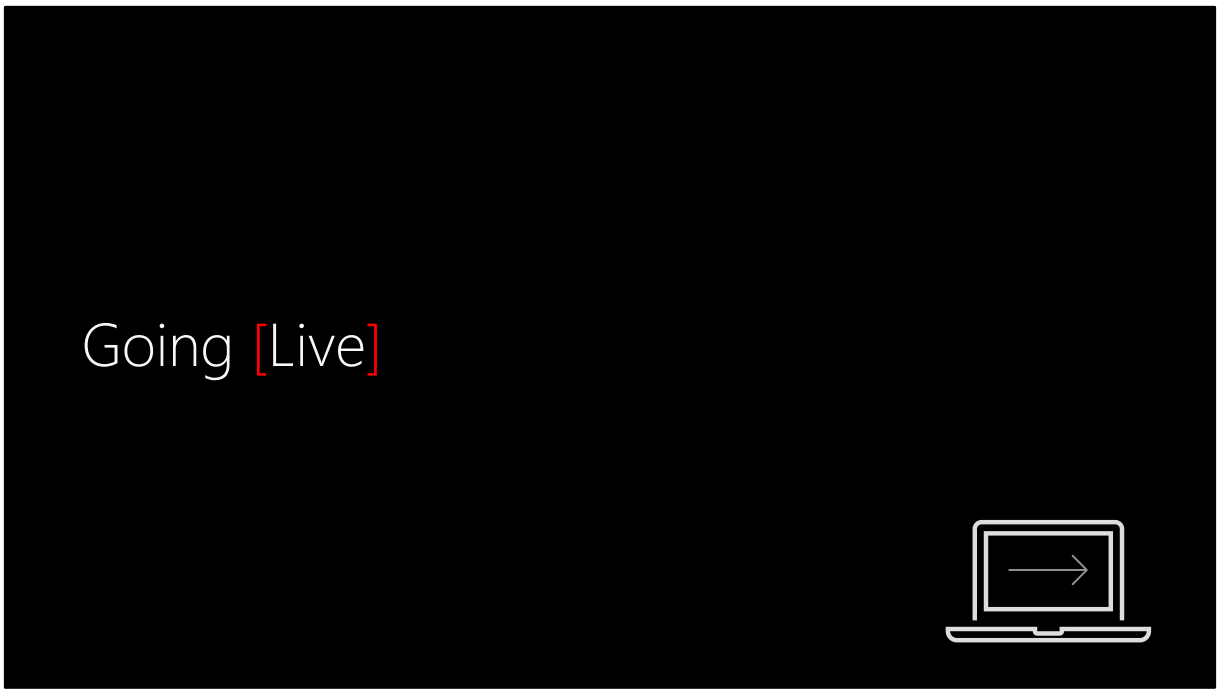

Slide 18 [00:00:00]

Windows Autopilot device preparation

- How to configure Windows Autopilot device preparation

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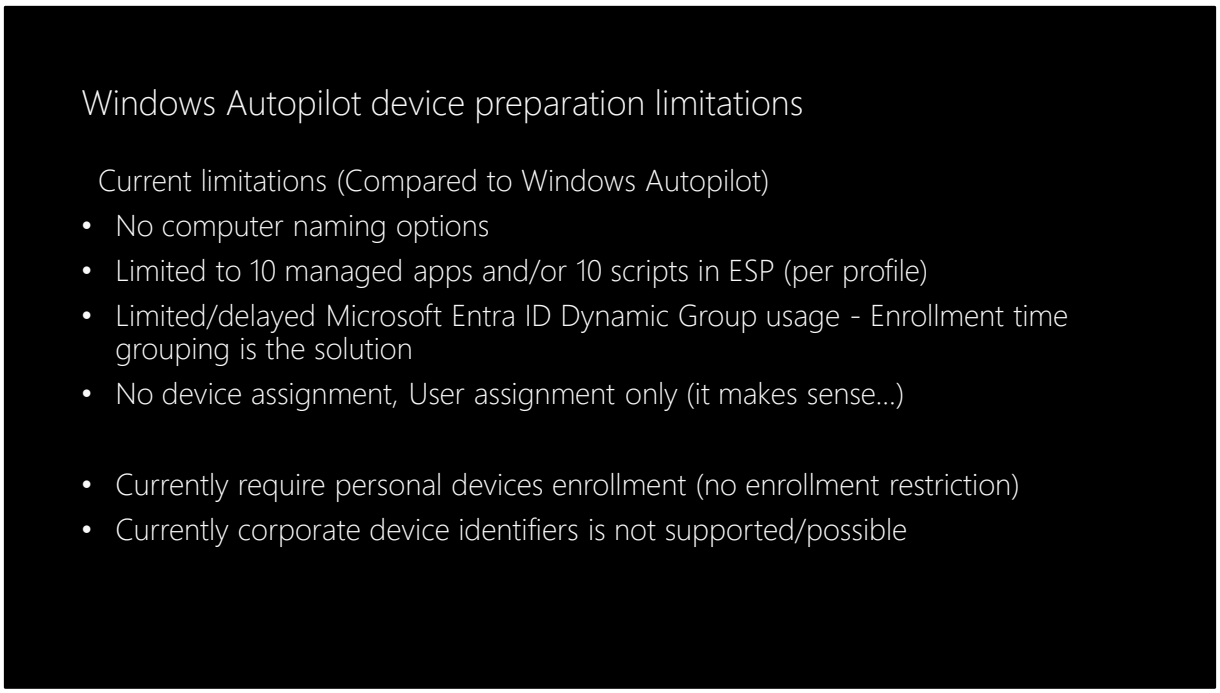

Slide 19 [00:00:00]

Windows Autopilot device preparation limitations

Current limitations (Compared to Windows Autopilot)
- No computer naming options
- Limited to 10 managed apps in ESP (per profile)
- Limited/delayed Microsoft Entra ID Dynamic Group usage - Enrollment time grouping is the solution: No device assignment, User assignment only (it make sense…)

- Currently require personal devices enrollment (no enrollment restriction)
- Currently corporate device identifiers is not supported/possible

Links
Enrollment time grouping in Microsoft Intune:
https://learn.microsoft.com/mem/intune/enrollment/enrollment-time-grouping

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Slide 20 [00:00:00]

Modern Update Management using Windows Autopatch

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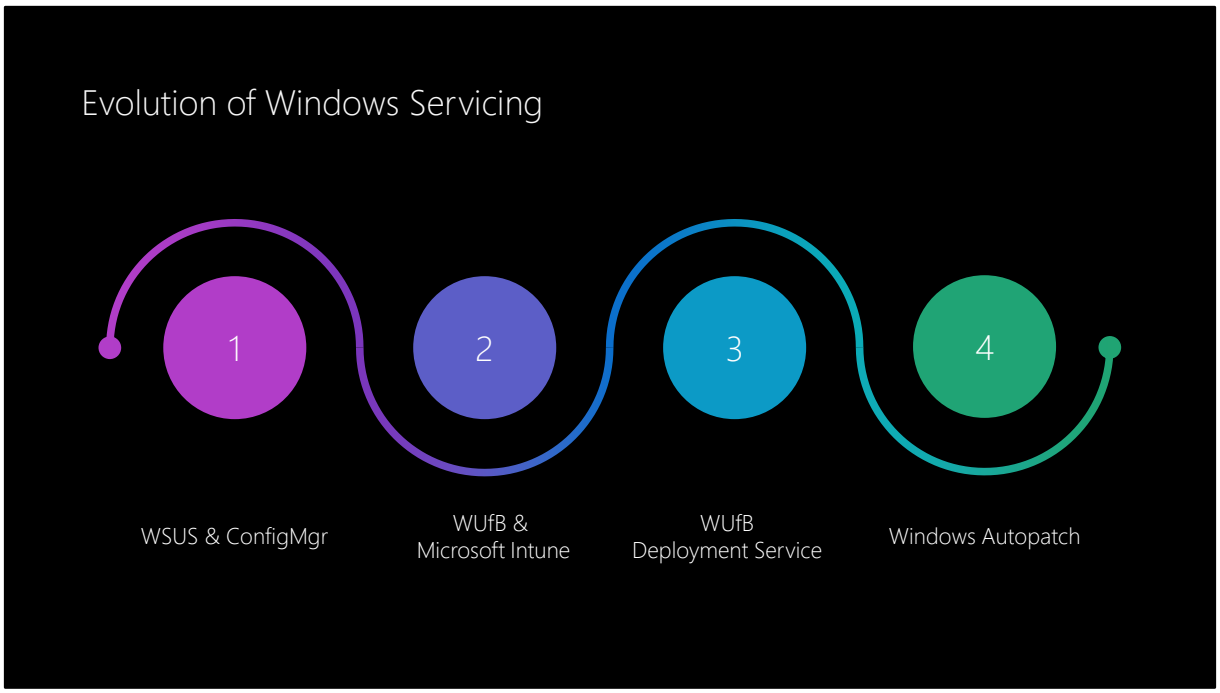

Slide 21 [00:00:00]

Evolution of Windows Servicing

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Slide 22 [00:00:00]

What is Windows Autopatch?

Windows Autopatch is a cloud service that automates Windows, Microsoft 365 Apps for enterprise, Microsoft Edge, and Microsoft Teams updates, to improve security and productivity across your organization.

Rather than maintaining complex digital infrastructure, businesses want to focus on what makes them unique and successful. Windows Autopatch offers a solution to some of the challenges facing businesses and their people today:

- Close the security gap: Windows Autopatch keeps software current, there are fewer vulnerabilities and threats to your devices.
- Close the productivity gap: Windows Autopatch adopts features as they're made available. End users get the latest tools to amplify their collaboration and work.
- Optimize your IT admin resources: Windows Autopatch automates routine endpoint updates. IT pros have more time to create value.
- On-premises infrastructure: Transitioning to the world of software as a service (SaaS) allows you to minimize your investment in on-premises hardware since updates are

delivered from the cloud.
- Onboard new services: Windows Autopatch makes it easy to enroll and minimizes the time required from your IT Admins to get started.
- Minimize end user disruption: Windows Autopatch releases updates in sequential deployment rings, and responding to reliability and compatibility signals, user disruptions due to updates are minimized.

https://learn.microsoft.com/windows/deployment/windows-autopatch/overview/windows-autopatch-overview

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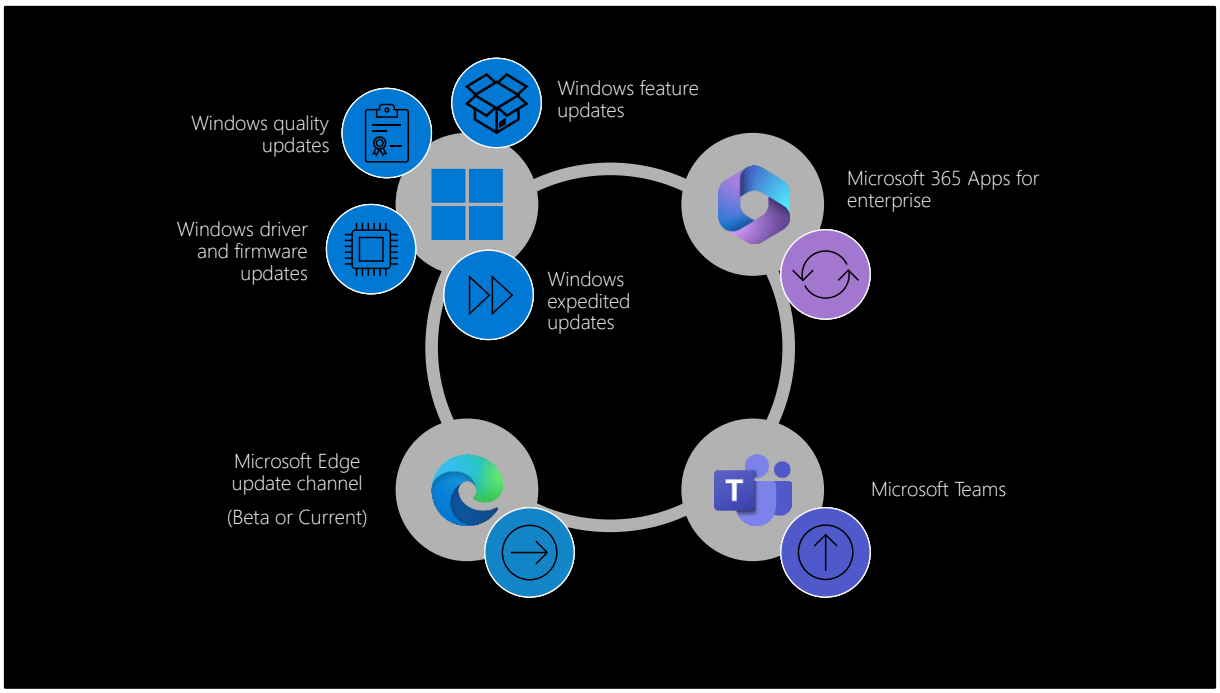

Slide 23 [00:00:00]

The anatomy of Windows Autopatch

https://learn.microsoft.com/windows/deployment/windows-autopatch/overview/windows-autopatch-overview

- Windows quality updates: Windows Autopatch aims to keep at least 95% of eligible devices on the latest Windows quality update 21 days after release.
- Windows feature updates: Windows Autopatch aims to keep at least 99% of eligible devices on a supported version of Windows so that they can continue receiving Windows feature updates.
- Microsoft 365 Apps for enterprise: Windows Autopatch aims to keep at least 90% of eligible devices on a supported version of the Monthly Enterprise Channel (MEC).
- Microsoft Edge: Windows Autopatch configures eligible devices to benefit from Microsoft Edge's progressive rollouts on the Stable channel.
- Microsoft Teams: Windows Autopatch allows eligible devices to benefit from the standard automatic update channel.

Manage Teams with policies: https://learn.microsoft.com/microsoftteams/manage-teams-

with-policies

References

Windows quality updates: https://learn.microsoft.com/windows/deployment/windows-autopatch/operate/windows-autopatch-groups-windows-quality-update-overview

Manage Windows Autopatch groups: https://learn.microsoft.com/windows/deployment/windows-autopatch/deploy/windows-autopatch-groups-manage-autopatch-groups

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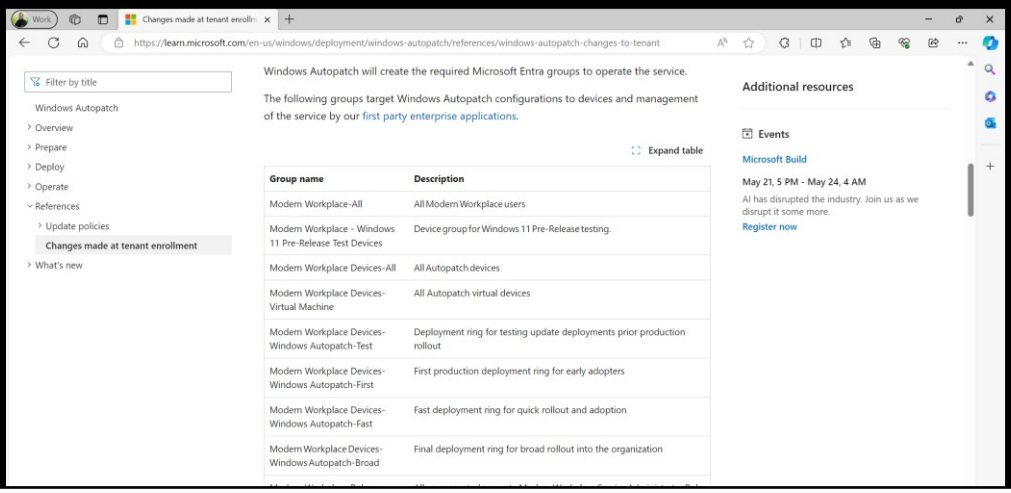
Changes made at tenant enrollment



Slide 24 [00:00:00]

The anatomy of Windows Autopatch: Configuration profiles

Changes made at tenant enrollment:
https://learn.microsoft.com/windows/deployment/windows-autopatch/references/windows-autopatch-changes-to-tenant/

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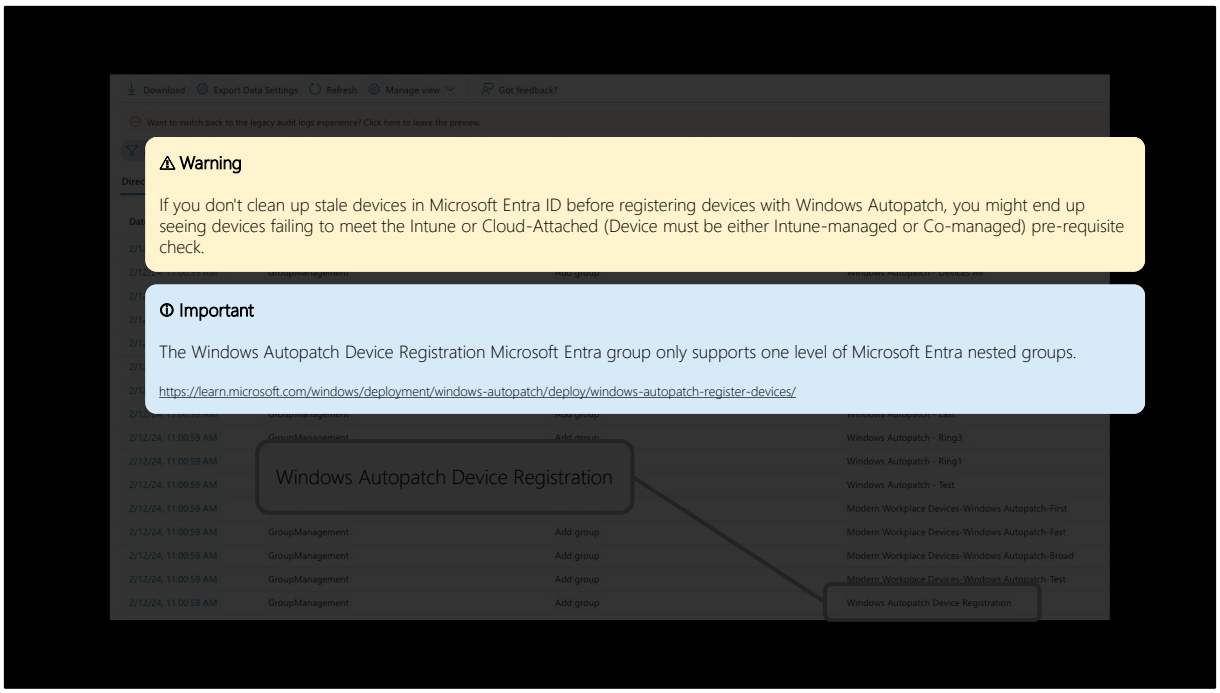

Slide 25 [00:00:00]

The anatomy of Windows Autopatch: Changes made at tenant enrollment

Changes made at tenant enrollment:
https://learn.microsoft.com/windows/deployment/windows-autopatch/references/windows-autopatch-changes-to-tenant/

The Windows Autopatch Device Registration Microsoft Entra group only supports one level of Microsoft Entra nested groups:
https://learn.microsoft.com/windows/deployment/windows-autopatch/deploy/windows-autopatch-register-devices/

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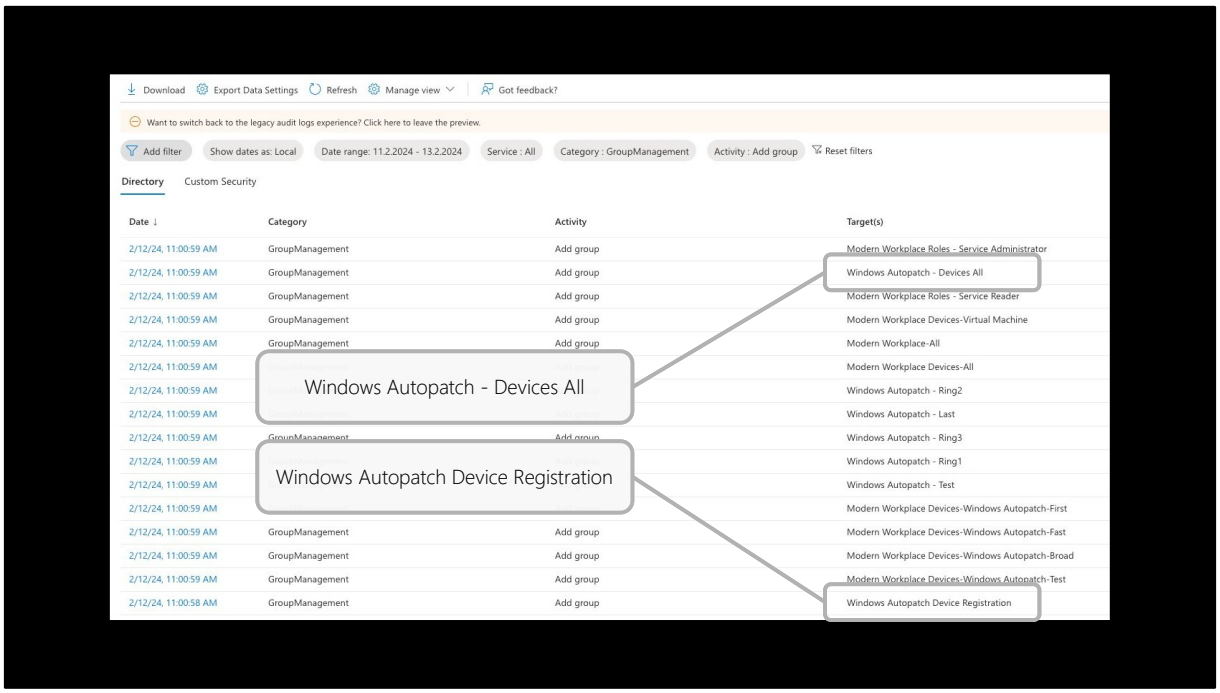

Slide 26 [00:00:00]

The anatomy of Windows Autopatch: Changes made at tenant enrollment

Changes made at tenant enrollment:
https://learn.microsoft.com/windows/deployment/windows-autopatch/references/windows-autopatch-changes-to-tenant/

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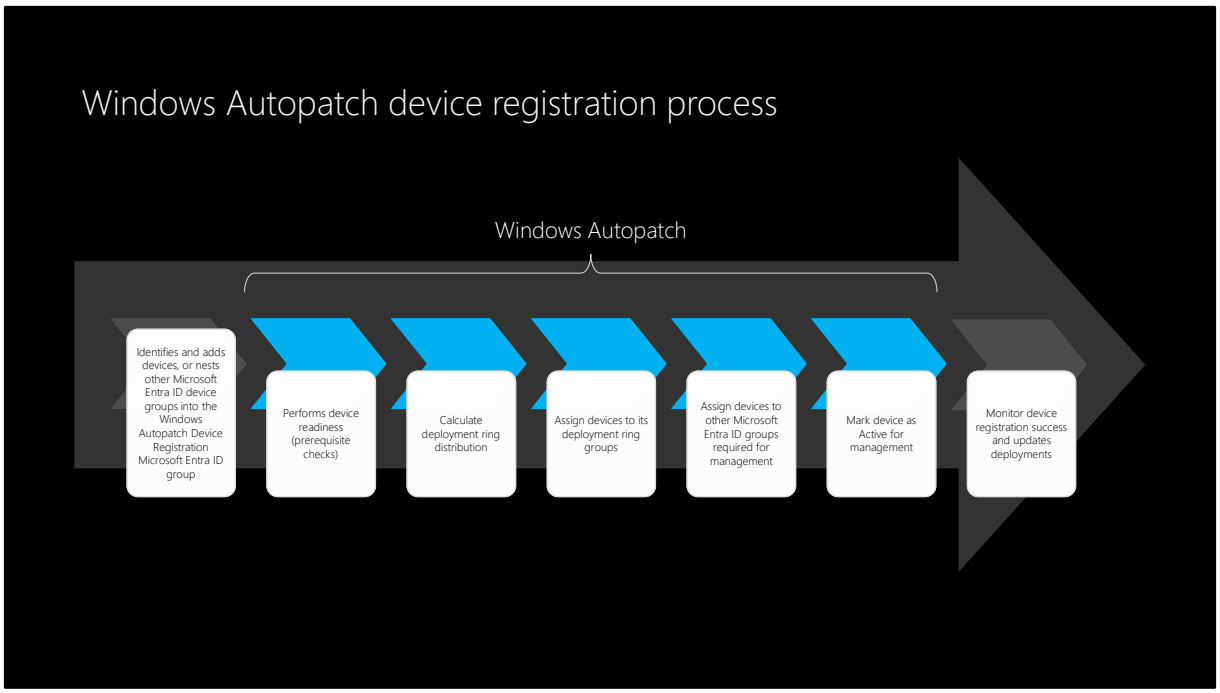

Slide 27 [00:00:00]

The anatomy of Windows Autopatch: Windows Autopatch device registration process

https://learn.microsoft.com/windows/deployment/windows-autopatch/deploy/windows-autopatch-register-devices

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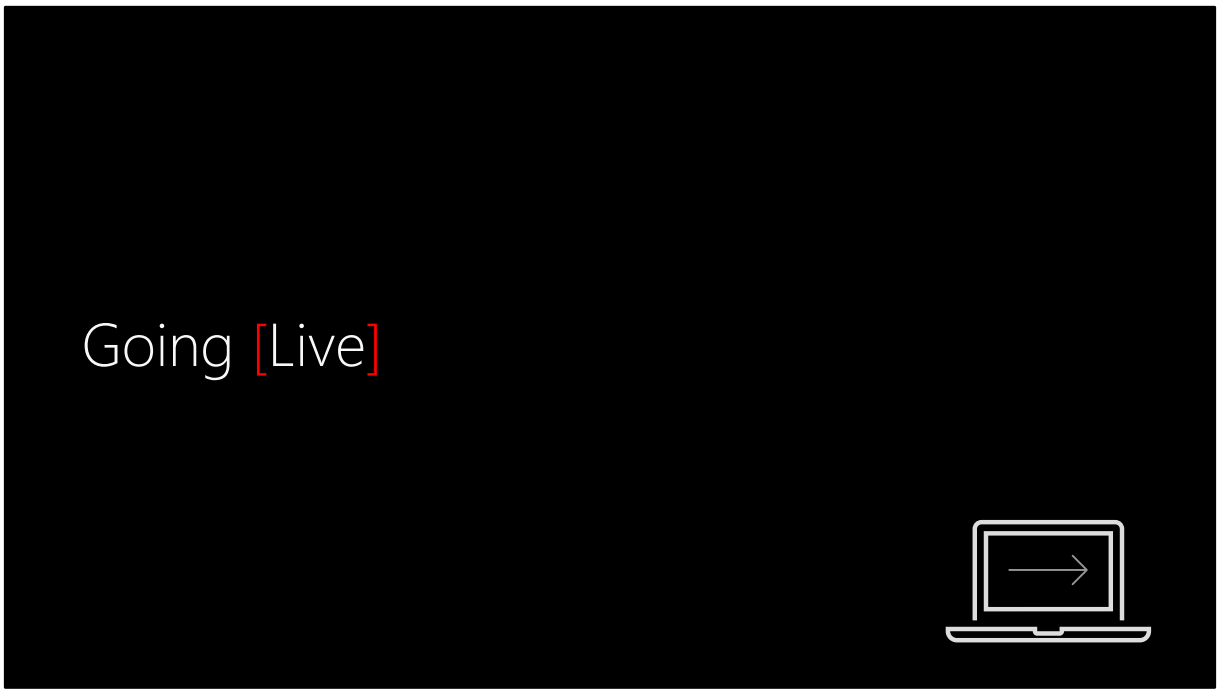

Slide 28 [00:00:00]

Windows Autopilot device preparation

- How to configure Windows Autopatch groups

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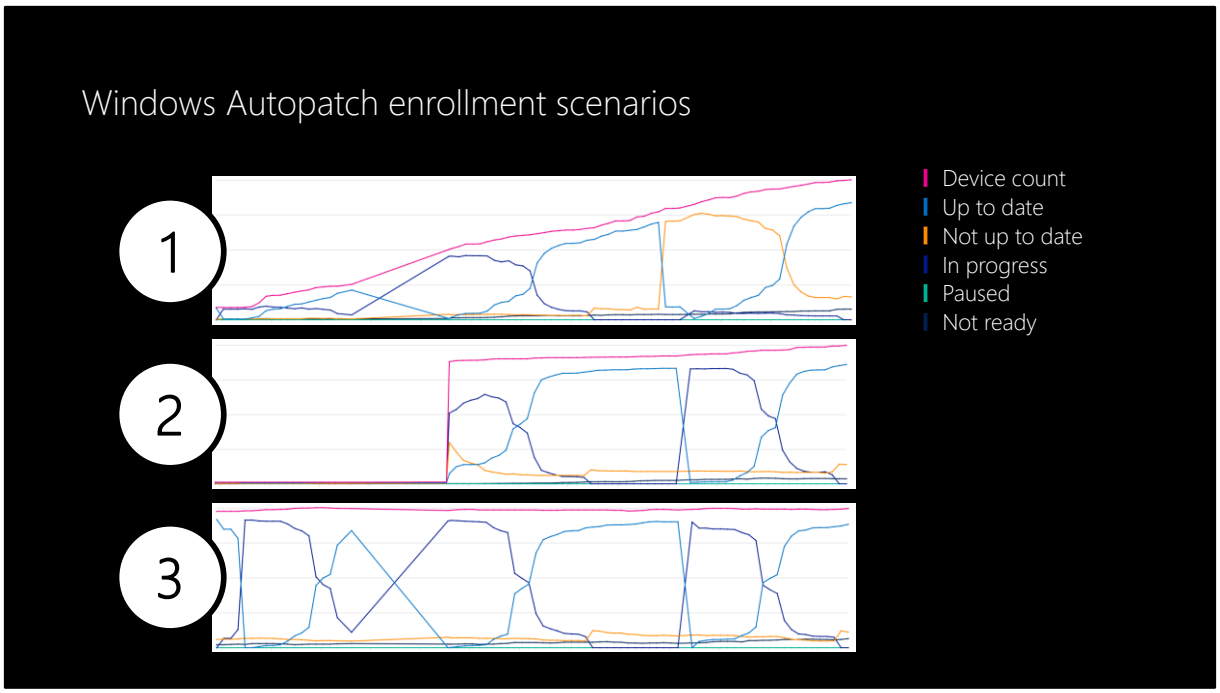

Slide 29 [00:00:00]

Windows Autopatch enrollment scenarios

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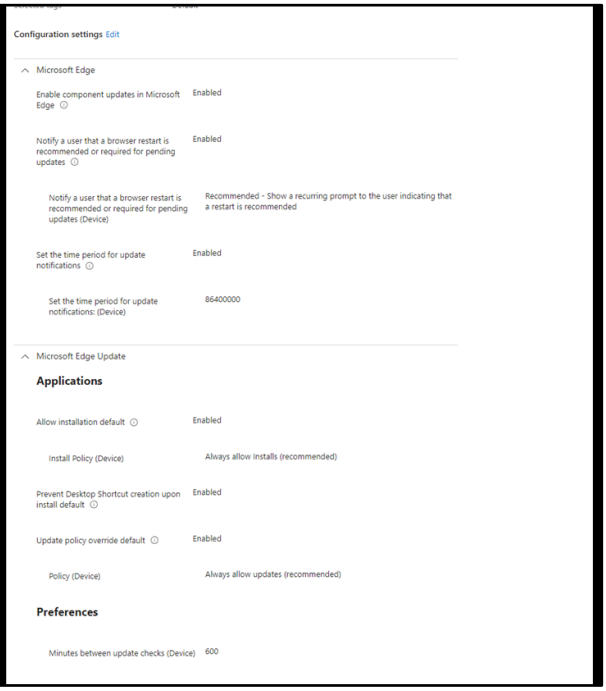
Windows Autopatch for Microsoft Edge

Windows Autopatch does not come with a Microsoft Edge Update behavior configuration policy.

You should control Microsoft Edge Update behavior with your own configuration!



Slide 30 [00:00:00]

Windows Autopatch for Microsoft Edge

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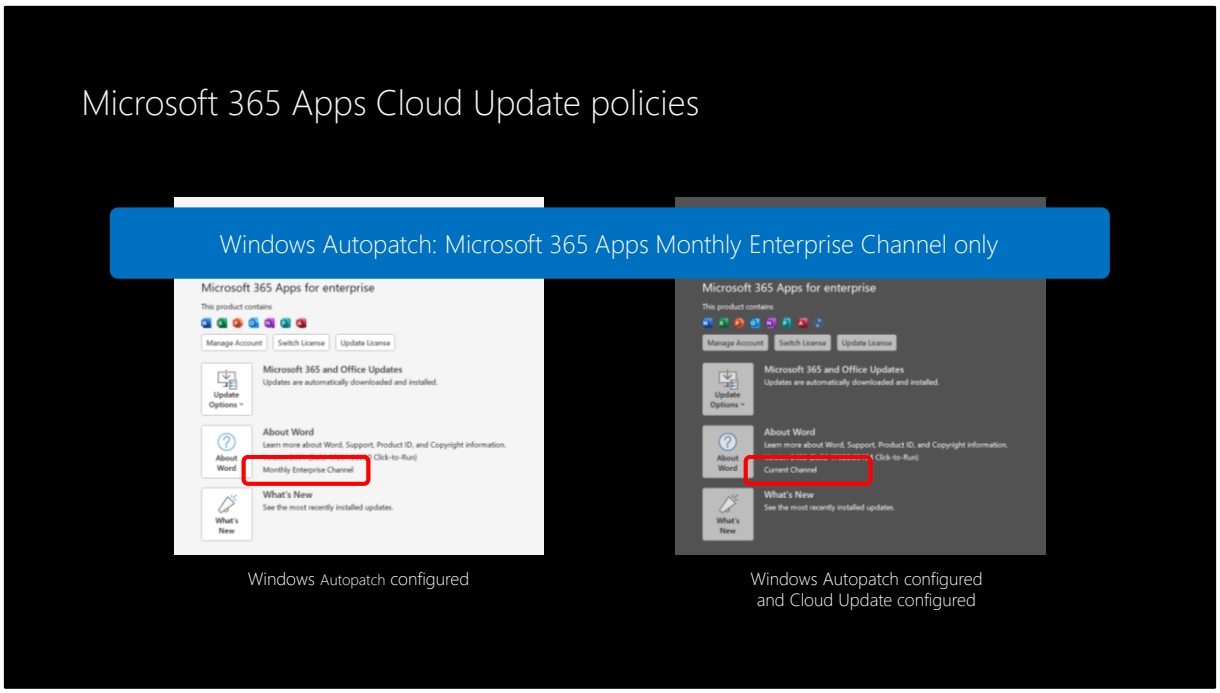
Slide 31 [00:00:00]

Windows Autopatch & Microsoft 365 Apps Update

//



Slide 32 [00:00:00]

Microsoft 365 Apps Cloud Update policies

Cloud update is the successor to servicing profile.

Cloud update provides a modern update management solution for Microsoft 365 Apps. Use cloud update to address common servicing needs with features such as custom rollout waves, exclusion windows, pause, and rollback.

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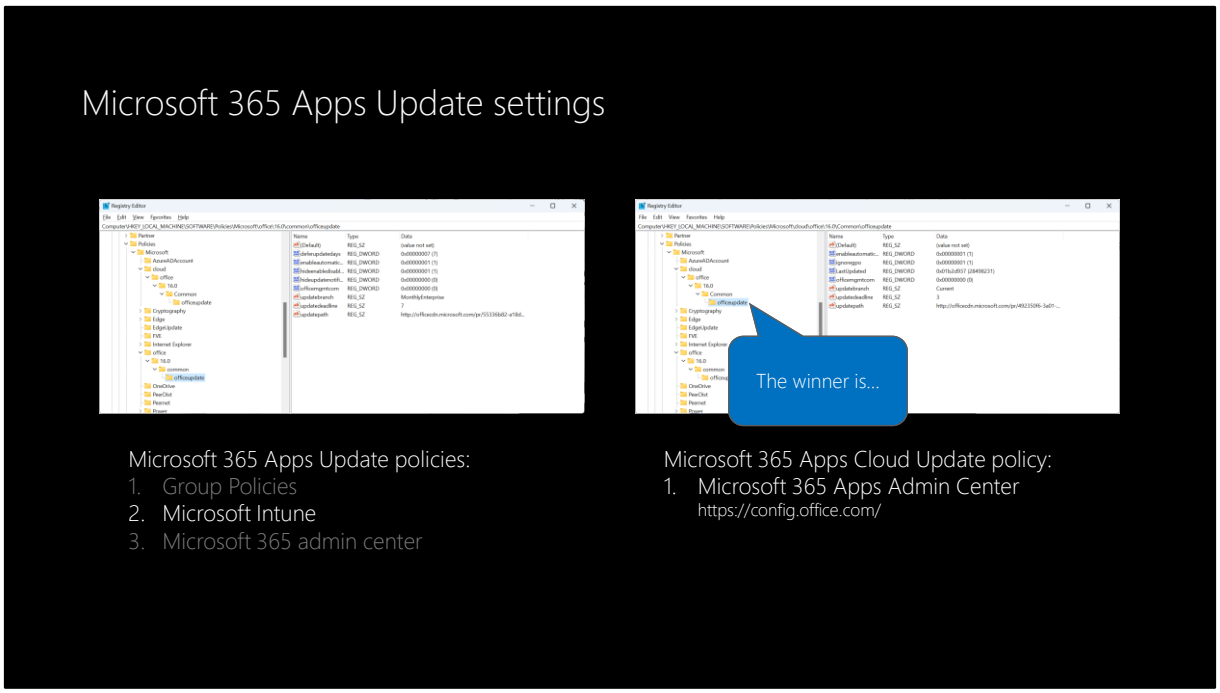

Slide 33 [00:00:00]

Microsoft 365 Apps Update settings

Microsoft 365 Apps Update policies:
1. Group Policies
2. Microsoft Intune
3. Microsoft 365 admin center

Microsoft 365 Apps Cloud Update policy:
1. Microsoft 365 Apps Admin Center
   https://config.office.com/

Cloud update is the successor to servicing profile.

Order of assignment (who wins):
1. Microsoft 365 admin center
2. Group Policies
3. Microsoft Intune
4. Microsoft 365 Apps Admin Center

Highest number wins.

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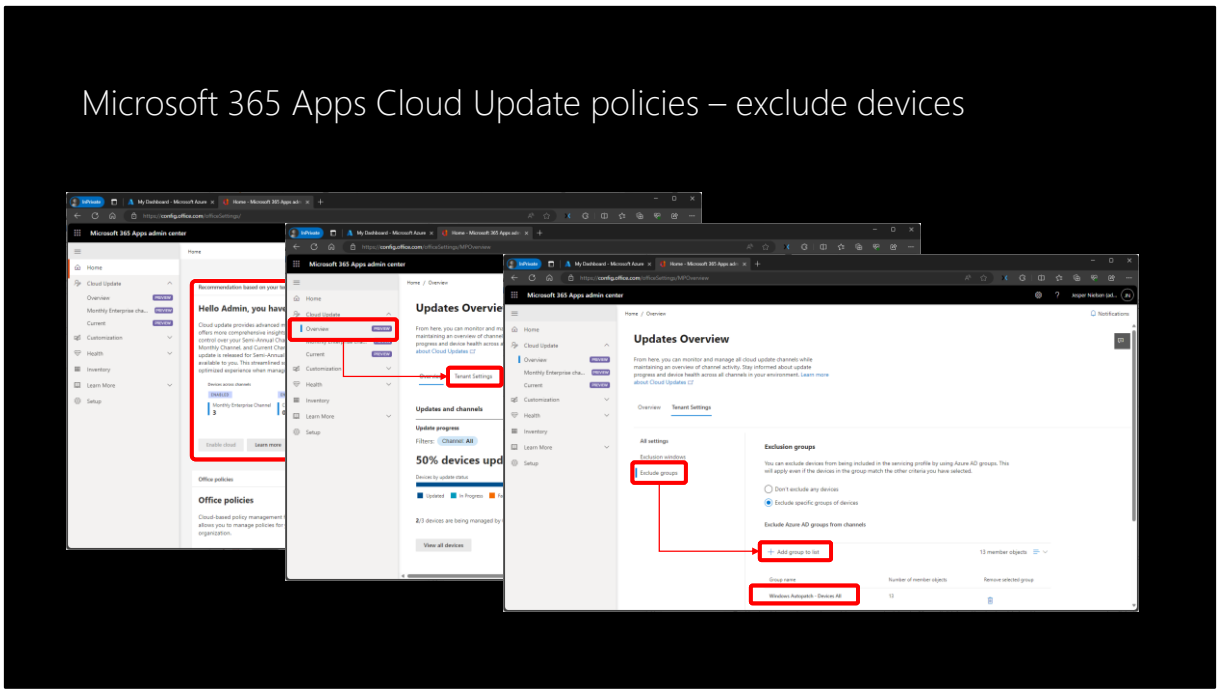

Slide 34 [00:00:00]

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Slide 35 [00:00:00]

Modern Provisioning and Update Management | Extra

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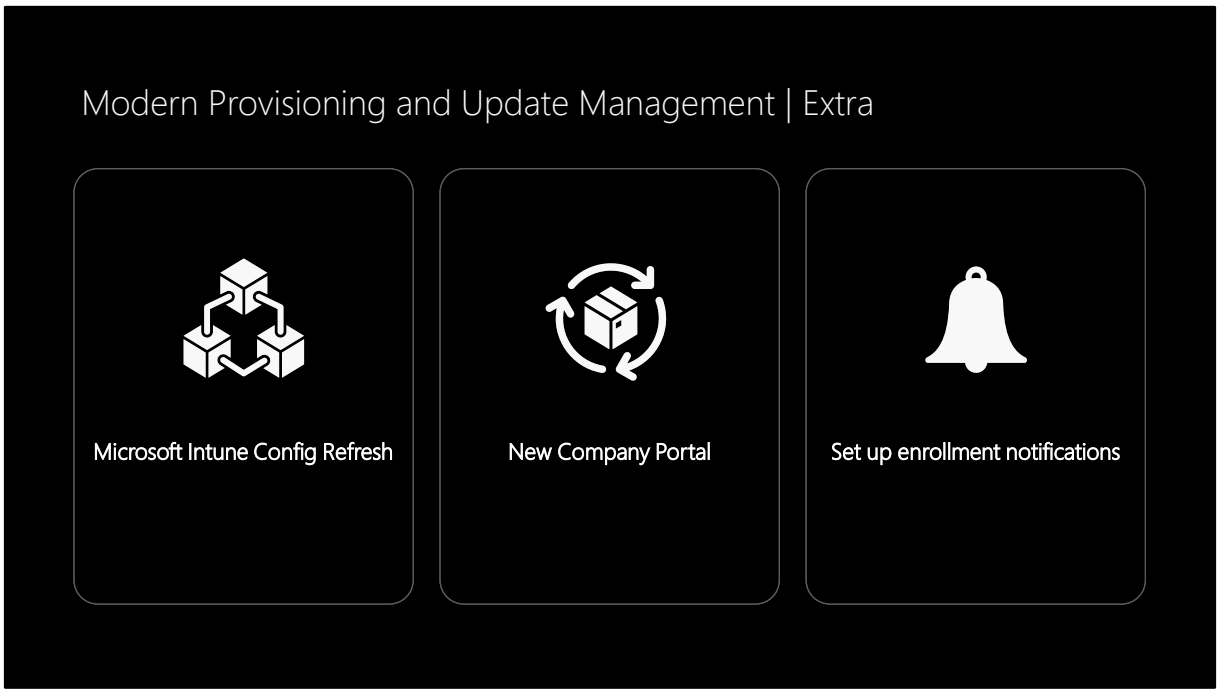

Slide 36 [00:00:00]

Modern Provisioning and Update Management | Extra

- **Microsoft Intune Config Refresh**: https://techcommunity.microsoft.com/t5/windows-it-pro-blog/intro-to-config-refresh-a-refreshingly-new-mdm-feature/ba-p/4176921
- **New Company Portal**: https://techcommunity.microsoft.com/t5/intune-customer-success/new-look-for-intune-company-portal-app-for-windows/ba-p/4158755
- **Set up enrollment notifications**: https://learn.microsoft.com/mem/intune/enrollment/enrollment-notifications

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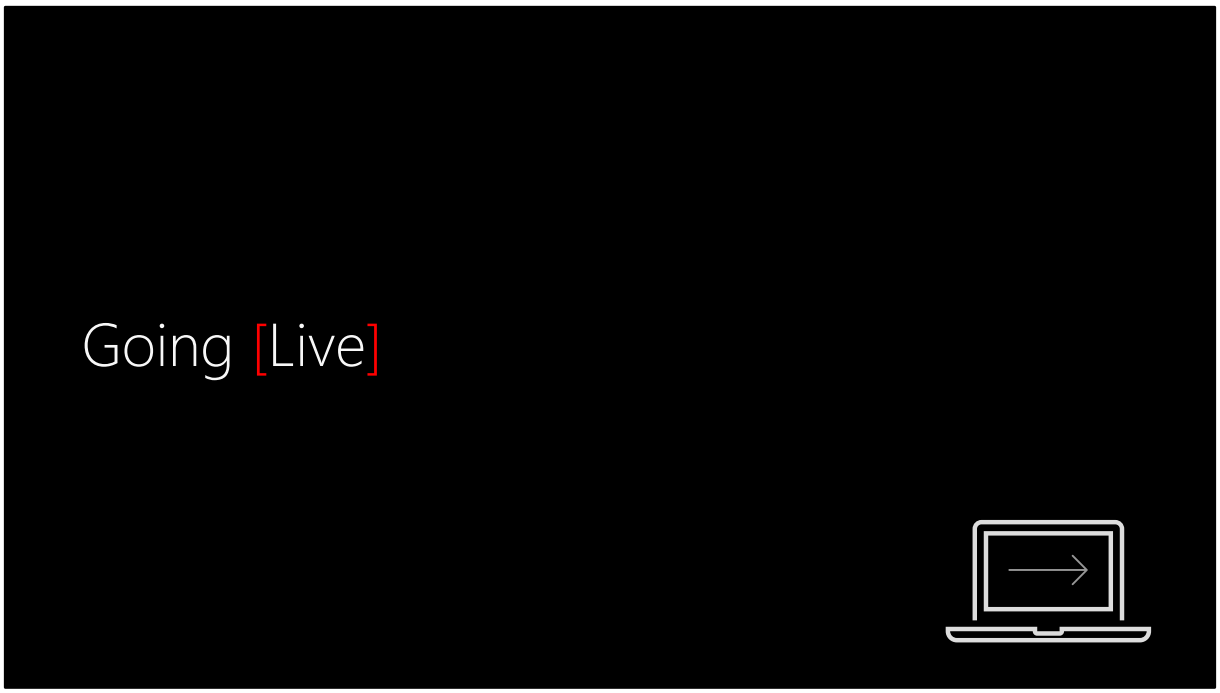

Slide 37 [00:00:00]

Modern Provisioning and Update Management | Extra

- Microsoft Intune Config Refresh
- New Company Portal
- Set up enrollment notifications

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Slide 38 [00:00:00]

Summary

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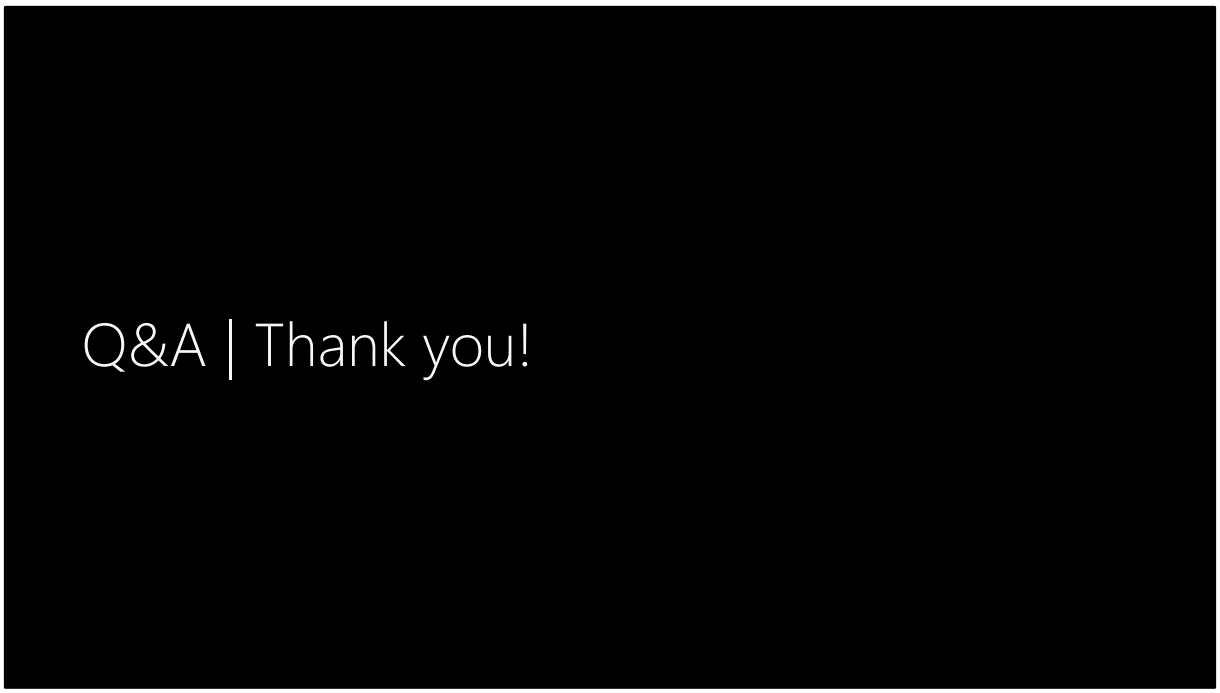

Slide 39 [00:00:00]

Thank you

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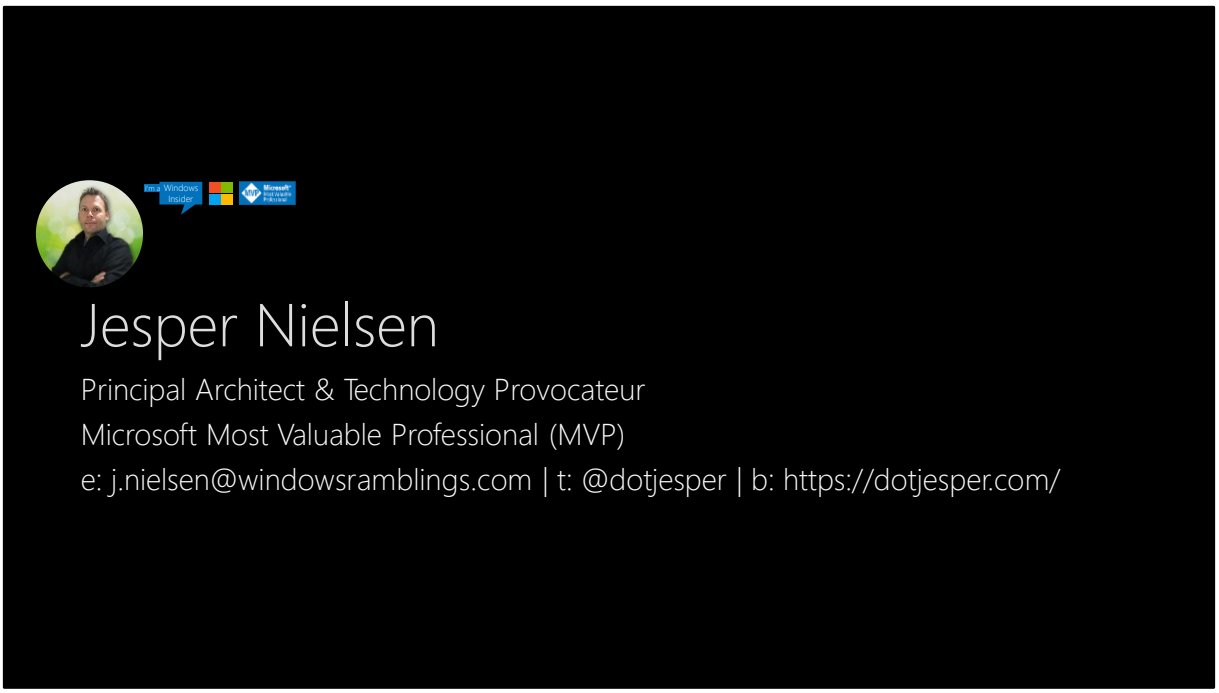

Slide 40 [Hidden]

About :: Biography

Who he is and what he do:
Jesper Nielsen is a Principal Architect and Technology Provocateur, Microsoft Most Valuable Professional (MVP)). He has been working hands-on with small- and large-scale IT-Infrastructure in many different industries for more than 20 years.

With a long background in supporting Windows technologies, Jesper Nielsen have designed and implemented several generations of Windows and is always happy to share his knowledge around this subject and related technologies.

Jesper Nielsen is the founder of the Everything Windows User Group, Denmark and is active in the community and can often be found at user group events as both speaker and attendee. He has been facilitating numerous seminars and events and has made several speaker appearances over the years were his passionate style of delivery, combined with his sense of humor, has made him a recognize speaker.

He does the work he does, because he is loving it, he likes the people he meets and is

always embracing the inner nerd and good presentation skills.

He finished a marathon around the four hours' mark, have been a gymnastics instructor for more than 30 years, he enjoying exploring technology and guide his kids into new technologies and is currently teaching himself C# for Windows app development.

He was awarded the MVP Status for Windows and Devices for IT for the first time, July 2016.

Find him:
E-mail: j.nielsen@windowsramblings.com

Follow him:
Blog: https://dotjesper.com/
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GitHub: https://github.com/dotjesper/
LinkedIn: https://www.linkedin.com/in/dotjesper/

Microsoft MVP: https://mvp.microsoft.com/en-us/PublicProfile/5002044/

Join him:
Everything User Group Denmark: http://wmug.dk/
Workplace Ninja User Group Denmark: https://wpninjas.dk/

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References

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