

Simplifying Update Management with Autopatch



Attention

- ◆ MMS sessions are 60-75 minutes followed by LONG Q&A
- ◆ Please hold detailed questions until that Q&A starts
- ◆ Feel free to ask clarification questions
- ◆ Remind the speakers to use Zoom It when you can't see

What is Autopatch

- **Comprehensive Cloud Update Management Solution:** Integrates Windows Autopatch, Windows Update for Business Deployment Services, and Microsoft Intune Update experience into a unified product called Windows Autopatch.
- **Broad Availability:** Accessible to all Windows E3+, F3+, A3+, and Business Premium customers

Story Arch

- ◆ Unified Update Management
- ◆ Safe Rollout practices – AP groups setup, RBAC, Preset profiles
- ◆ Quality Update tools and tips – Rings, Expedite
- ◆ Feature Update Management – Win 11 EOL, Optional updates, side-by-side
- ◆ Drivers and Firmware – Wingman tools for IT admins

Speakers



Ken Goossens



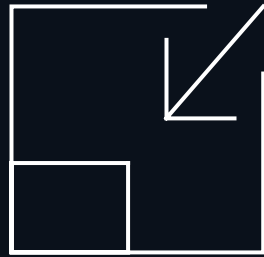
Surabhi Calla

Unified Update Management Experience



Known vulnerabilities

Unpatched OS and M365 exploits are the way in for bad actors



Competing IT priorities

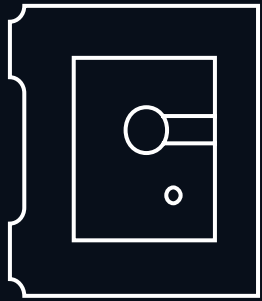
Environments are more complex and specialized skills are rare



Reduce costs

Optimize budgets to improve or maintain service

Unified Update Management Experience



More secure

Updates applied automatically, even Zero-day



More productive

IT teams can spend more time on higher-value tasks



Less overhead

Reduce inputs, consolidate vendors, retire infrastructure

Windows Autopatch

Where we are today!

2025

Handle everything
yourself

2022

Let Microsoft
handle everything

← Update tasks →

Evaluate and select which updates to perform, such as drivers, Microsoft 365 apps, and feature updates.

Define and test the protocols.

Define the rollout structure and schedule.

Monitor the updates and pause or roll them back.



Releases Blade

Microsoft Intune admin center

Home > Devices

Devices | Windows updates

Search

Overview
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Device query
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Windows 365
Enrollment
Manage devices
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Compliance
Conditional access
Scripts and remediations
Group Policy analytics
eSIM cellular profiles (preview)
Policy sets
Device categories
Partner portals
Manage updates
Windows updates
Apple updates
Android FOTA deployments
Organize devices
Device clean-up rules
Assignment filters

Releases | Update rings | Feature updates | Quality updates | Driver updates | Monitor

Select a release to see deployment information across your policies. Data does not include expedited quality update releases for policies that aren't in an Autopatch group.

Quality updates 2 | Feature updates 2

Refresh | Export | Columns

Search | Add filters

Release	Update type	Deployment status	First deployment
2025.04 B	Quality	In Progress	8/4/2025
2025.4 OOB	Quality	In Progress	11/4/2025
Windows 10, version 22H2	Feature	In Progress	10/12/2024
Windows 11, version 24H2	Feature	In Progress	23/12/2024

Update rings

Microsoft Intune admin center

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- eSIM cellular profiles (preview)
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Manage updates

- Windows updates**
- Apple updates
- Android FOTA deployments

Organize devices

- Device clean-up rules
- Assignment filters

Releases

Update rings

Feature updates

Quality updates

Driver updates

Monitor

View your policy settings and make changes as needed. With Autopatch groups, you can manage rollouts across multiple deployment rings. Go to Tenant administration to [manage your Autopatch groups](#)

+ Create profile Refresh Export Columns Pause Resume Uninstall

Search Add filters

Name	Object type	Quality	Feature	Quality deferral	Feature deferral	
☒ Windows Autopatch	Autopatch group	Running	Running	Mixed	0 days	...
☐ Windows Autopatch Update Policy - Default - Test	Update rings for Windows updates	Running	Running	0 days	0 days	...
☐ Windows Autopatch Update Policy - Default - Ring1	Update rings for Windows updates	Running	Running	1 days	0 days	...
☐ Windows Autopatch Update Policy - Default - Last	Update rings for Windows updates	Running	Running	11 days	0 days	...
☐ WUFB	Update rings for Windows updates	Running	Running	0 days	0 days	...

- Pause quality updates
- Pause feature updates
- Resume quality updates
- Resume feature updates
- Uninstall quality updates
- Uninstall feature updates
- Delete policy
- Assign scope tags

Feature updates

Microsoft Intune admin center

Home > Devices

Devices | Windows updates

Search

Releases Update rings **Feature updates** Quality updates Driver updates Monitor

View your Windows feature update policy settings and create new feature update releases. Go to Tenant administration to [manage your Autopatch groups](#).

+ Create Refresh Export Columns

- Create feature update policy
- Create Autopatch multi-phase release

Add filters

Name	Object Type	Feature update version	Deployment Status	Support End Date
Windows Autopatch - Global DSS Policy	Feature update policy	Windows 10, version 22H2	In progress	14/10/2025, 02:00:00
Feature Update Cycle for 24H2	Feature update policy group	Windows 11, version 24H2	In progress	12/10/2027, 02:00:00
Windows Autopatch - DSS policy - Feature Update Cycle for 24H2 - Phase 1	Feature update policy	Windows 11, version 24H2	In progress	12/10/2027, 02:00:00
Windows Autopatch - DSS policy - Feature Update Cycle for 24H2 - Phase 2	Feature update policy	Windows 11, version 24H2	In progress	12/10/2027, 02:00:00
Windows Autopatch - DSS policy - Feature Update Cycle for 24H2 - Phase 3	Feature update policy	Windows 11, version 24H2	In progress	12/10/2027, 02:00:00

Left sidebar navigation:

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- Endpoint security
- Reports
- Users
- Groups
- Tenant administration
- Troubleshooting + support
- Device onboarding
 - Windows 365
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Quality updates

Microsoft Intune admin center

Home > Devices

Devices | Windows updates

Search

Releases Update rings Feature updates **Quality updates** Driver updates Monitor

+ Create Refresh Export Columns

+ Windows quality update policy

+ Expedite policy

Name	Policy Type	Assigned	Last modified
Goosnet - Expedited	Expedite policy	Yes	12/10/2024, 11:54 PM
Goosnet - Hotpatch	Windows quality update policy	Yes	12/10/2024, 11:55 PM

Home Dashboard All services Devices Apps Endpoint security Reports Users Groups Tenant administration Troubleshooting + support

Overview All devices Device query Monitor By platform Windows iOS/iPadOS macOS Android Linux Device onboarding Windows 365 Enrollment Manage devices Configuration Compliance Conditional access Scripts and remediations Group Policy analytics eSIM cellular profiles (preview) Policy sets Device categories Partner portals Manage updates **Windows updates** Apple updates Android FOTA deployments Organize devices Device clean-up rules Assignment filters

MMS

Driver updates

Microsoft Intune admin center

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Releases Update rings Feature updates Quality updates **Driver updates** Monitor

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- Windows 365
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- Windows updates**
- Apple updates
- Android FOTA deployments

Organize devices

- Device clean-up rules
- Assignment filters

Select a policy to manage its drivers. Windows Autopatch will apply your driver update settings to releases as they become available. With Autopatch groups, you can review drivers in bulk. Go to Tenant administration to [manage your Autopatch groups](#).

+ Create profile Refresh Export Columns Manage drivers for Autopatch groups

Search Add filters

Name	Object type ↑	Drivers to review	Deferral period	Approval method
Windows Autopatch	Autopatch group	3 to review	Not applicable	Manual
Windows Autopatch Driver Update Policy - Default - Test	Driver update policy	3 to review	Not applicable	Manual
Windows Autopatch Driver Update Policy - Default - Ring1	Driver update policy	0 to review	Not applicable	Manual
Windows Autopatch Driver Update Policy - Default - Last	Driver update policy	0 to review	Not applicable	Manual

Monitor

Microsoft Intune admin center

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Releases Update rings Feature updates Quality updates Driver updates **Monitor**

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Refresh

Autopatch devices

Devices ready	Devices not ready	Devices not registered
1	0	3

Deployment status per Windows update ring

Devices with error	Devices with conflict
0	0

Feature update policies with alerts

Devices with error
0

Expedited quality update policies with alerts

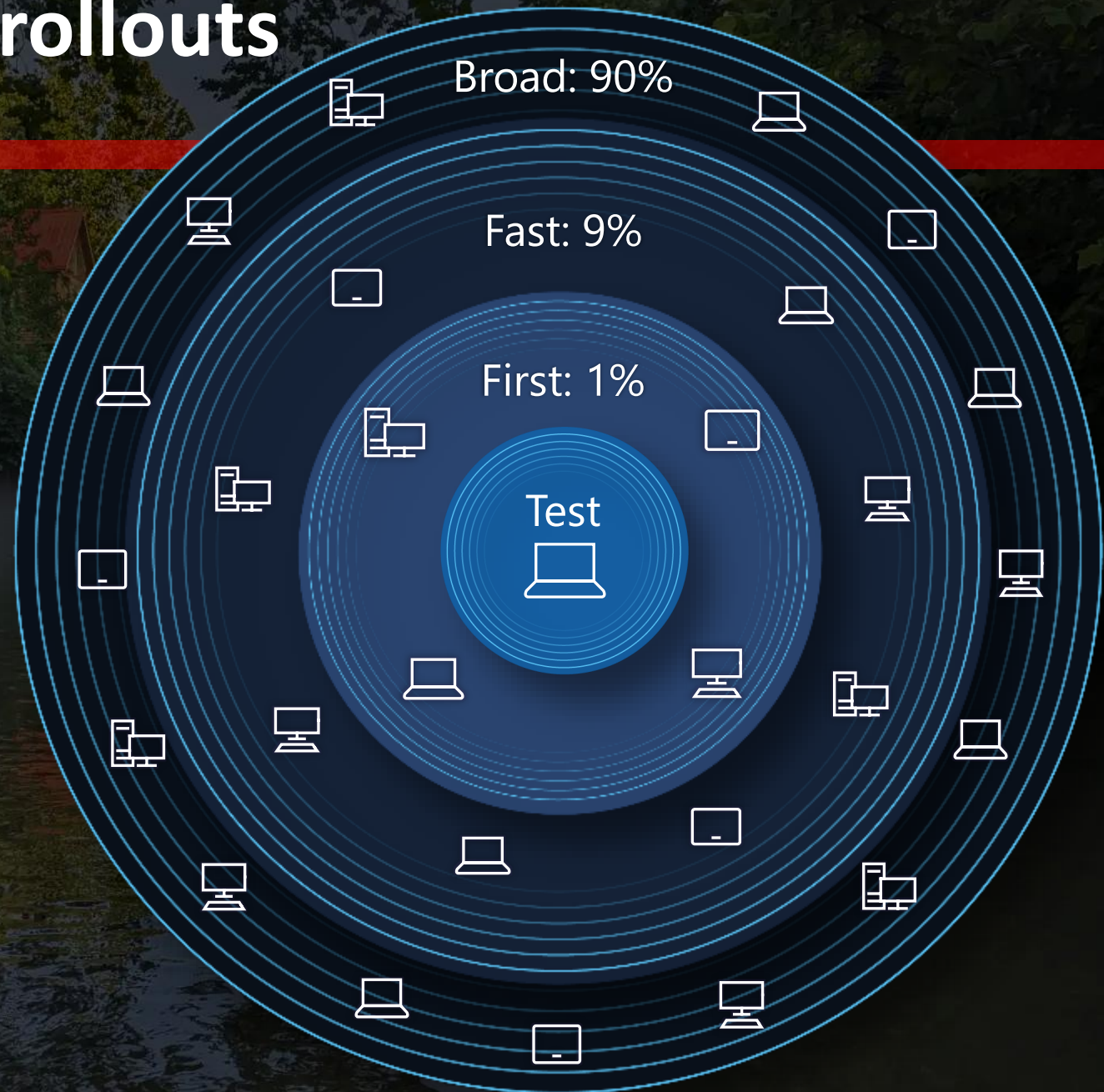
Devices with error
0

Driver update policies with alerts

Devices with error
0

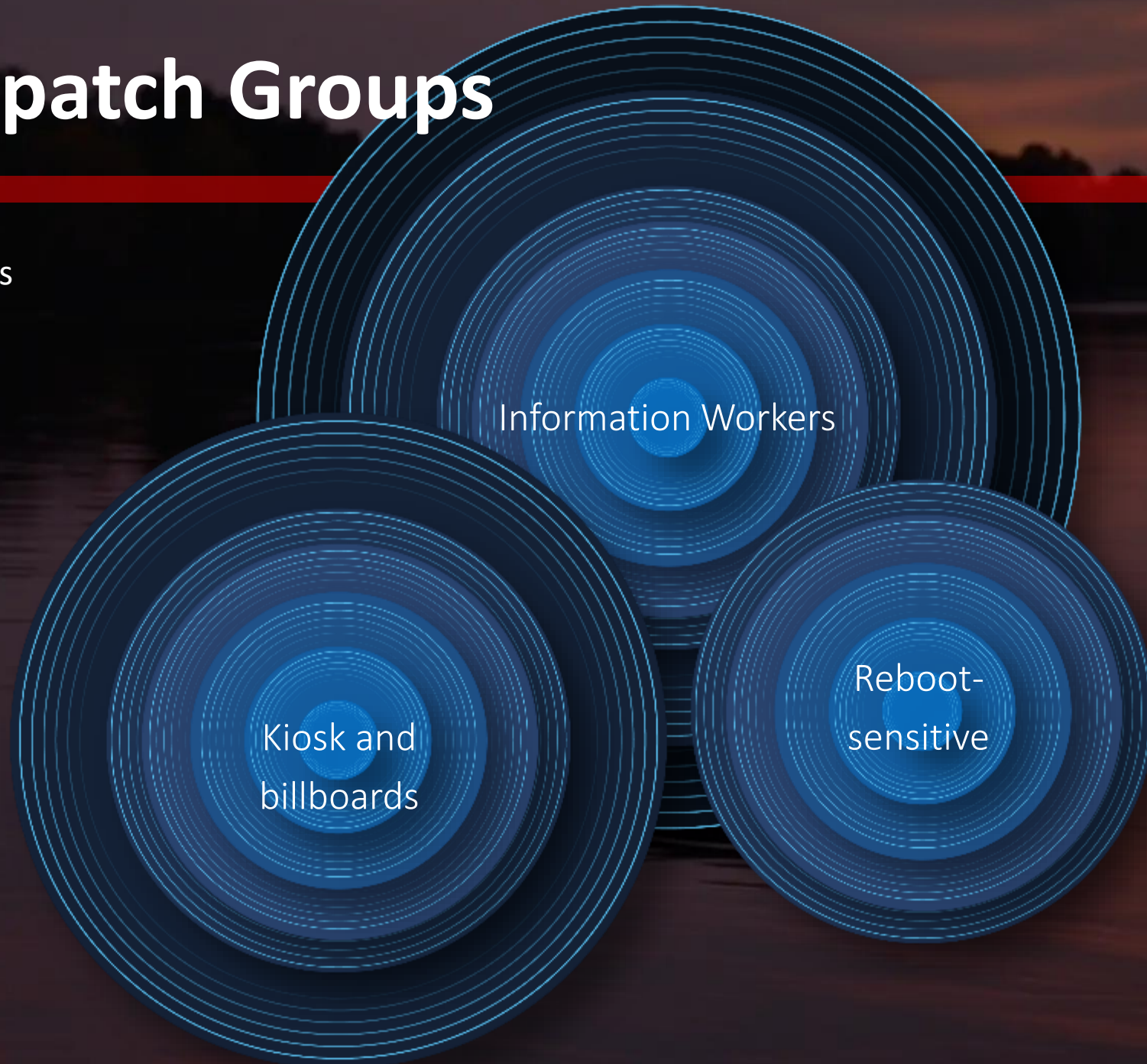
Automatic ring-based rollouts

- ◆ Balance speed and safety
- ◆ Identify issues early



Custom Autopatch Groups

- ◆ Match your organizational/business structure in Autopatch
- ◆ Divide your tenant by need
- ◆ Up to 300 groups of rings (i.e., LOB)
- ◆ Only Feature, Driver, and Quality update customizations



Entra groups

Microsoft Intune admin center

Home > Groups

Groups | All groups

Goosnet Labs

New group Download groups Refresh Manage view Delete Got feedback?

Overview

All groups

Deleted groups

Diagnose and solve problems

Settings

- General
- Expiration
- Naming policy

Activity

- Access reviews
- Audit logs
- Bulk operation results

Troubleshooting + Support

- New support request

Microsoft Entra has a simpler, integrated experience for managing all your Identity and Access Management needs. Try the new Microsoft Entra admin center!

MMS

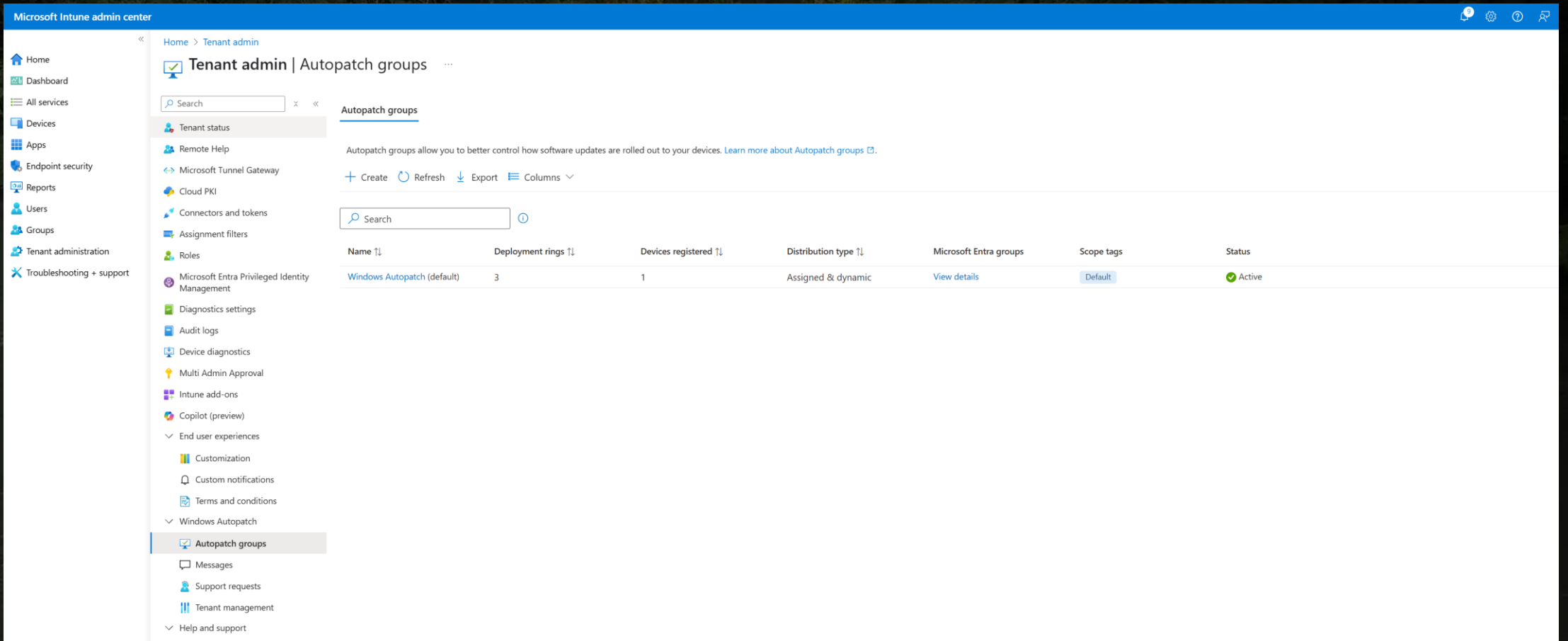
Add filter

Search mode Contains

3 groups found

☐	Name	Object Id	Group type	Membership type	Email	Source
☐	 MMS MOA - Dynamic Distribution Group	58888631-89ae-41f1-986f-2f3987ed1f8e	Security	Assigned		Cloud
☐	 MMS MOA - Dedicated Test Ring	87bd5914-0fd1-4e4b-a1ed-4a9fd5087418	Security	Assigned		Cloud
☐	 MMS MOA - Dedicated Last Ring	ca95f373-7f53-4b8c-90b3-e7b492c6dc68	Security	Assigned		Cloud

Tenant admin - Autopatch groups



The screenshot displays the Microsoft Intune admin center interface. The left-hand navigation pane lists various management areas, with 'Autopatch groups' selected under the 'Windows Autopatch' section. The main content area is titled 'Tenant admin | Autopatch groups' and includes a search bar and action buttons like 'Create', 'Refresh', 'Export', and 'Columns'. Below this is a table listing the available autopatch groups.

Name ↑↓	Deployment rings ↑↓	Devices registered ↑↓	Distribution type ↑↓	Microsoft Entra groups	Scope tags	Status
Windows Autopatch (default)	3	1	Assigned & dynamic	View details	Default	Active

Autopatch groups – Deployment rings

Microsoft Intune admin center

Home > Tenant admin | Autopatch groups >

Add Autopatch group

1 Basics 2 **Deployment rings** 3 Update types 4 Deployment settings 5 Release schedules 6 Scope tags 7 Review + create

Releases are sequentially deployed through the deployment rings. Select the desired number of deployment rings for the Autopatch group and assign either dynamic or assigned device-based Microsoft Entra groups to each deployment ring. [Learn more about deployment rings](#).

Add devices to each deployment ring using one or both of the following Autopatch group deployment ring distribution types:

- Select an **Assigned deployment ring group**: this deployment ring distribution type is required for the Test and Last deployment rings.
- Create a **Dynamic deployment ring group**: this deployment ring distribution type is not applicable for the Test and Last deployment rings.

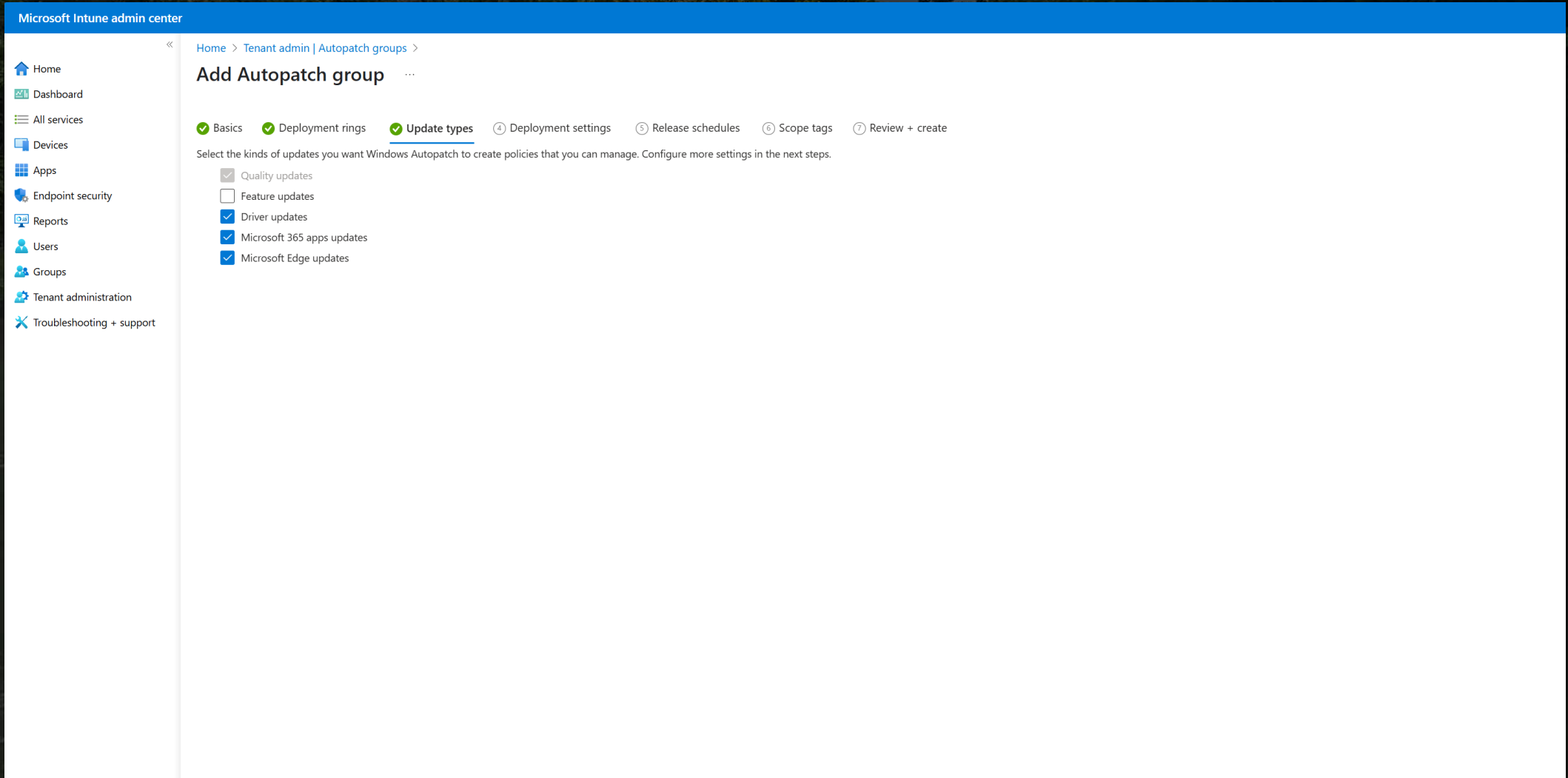
Dynamic group distribution ⓘ MMS MOA - Dynamic Distribution Group [Edit](#) ⓘ

+ Add deployment ring Columns ⓘ Apply default dynamic group distribution 5 records

Deployment ring	Assigned group ⓘ	Dynamic group distribution ⓘ	Approx. device count ⓘ
MMS MOA - Autopatch Group - Test	MMS MOA - Dedicated Test Ring Edit ⓘ	Not applicable	0
MMS MOA - Autopatch Group - Ring1	Add group to ring ⓘ	☒ 15 %	0 Delete ⓘ
MMS MOA - Autopatch Group - Ring2	Add group to ring ⓘ	☒ 35 %	0 Delete ⓘ
MMS MOA - Autopatch Group - Ring3	Add group to ring ⓘ	☒ 50 %	0 Delete ⓘ
MMS MOA - Autopatch Group - Last	MMS MOA - Dedicated Last Ring Edit ⓘ	Not applicable	0

MMS

Autopatch groups – Update types



The screenshot displays the Microsoft Intune admin center interface. The left-hand navigation pane includes links to Home, Dashboard, All services, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support. The main content area is titled 'Add Autopatch group' and shows a progress bar with seven steps: Basics, Deployment rings, Update types (currently selected), Deployment settings, Release schedules, Scope tags, and Review + create. Below the progress bar, a message states: 'Select the kinds of updates you want Windows Autopatch to create policies that you can manage. Configure more settings in the next steps.' A list of update types follows: Quality updates (checked), Feature updates (unchecked), Driver updates (checked), Microsoft 365 apps updates (checked), and Microsoft Edge updates (checked).

Microsoft Intune admin center

Home > Tenant admin | Autopatch groups >

Add Autopatch group

✓ Basics ✓ Deployment rings **✓ Update types** ④ Deployment settings ⑤ Release schedules ⑥ Scope tags ⑦ Review + create

Select the kinds of updates you want Windows Autopatch to create policies that you can manage. Configure more settings in the next steps.

- ☒ Quality updates
- ☐ Feature updates
- ☒ Driver updates
- ☒ Microsoft 365 apps updates
- ☒ Microsoft Edge updates

Autopatch groups – Deployment settings

Microsoft Intune admin center

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Home > Tenant admin | Autopatch groups >

Add Autopatch group

✓ Basics

✓ Deployment rings

✓ Update types

4 Deployment settings

3 Release schedules

3 Scope tags

7 Review + create

Quality updates

Quality updates are deployed automatically. Autopatch creates update ring policies to control when changes are rolled out to your deployment rings. Those settings are configured in the Release schedules section.

Driver updates

Windows Autopatch settings only apply to recommended drivers. You can manually approve other drivers as needed.

☐ Use the same approval method for all deployment rings.

☒ Use different approval methods for each deployment ring.

MMS MOA - Autopatch Group - Test

Automatically approve

MMS MOA - Autopatch Group - Ring1

Automatically approve

MMS MOA - Autopatch Group - Ring2

Automatically approve

MMS MOA - Autopatch Group - Ring3

Automatically approve

MMS MOA - Autopatch Group - Last

Manually review and approve

Microsoft 365 apps updates

Windows Autopatch will create policies targeting the Monthly Enterprise Channel for devices in this Autopatch Group. You'll be able to configure deferrals, deadlines, and notification settings in the next step.

Microsoft Edge updates

A policy will be created to assign devices to this channel for Microsoft Edge.

☐ Use the same channel for all deployment rings.

☒ Use different channel for each deployment ring.

MMS MOA - Autopatch Group - Test

Beta

MMS MOA - Autopatch Group - Ring1

Stable

MMS MOA - Autopatch Group - Ring2

Stable

MMS MOA - Autopatch Group - Ring3

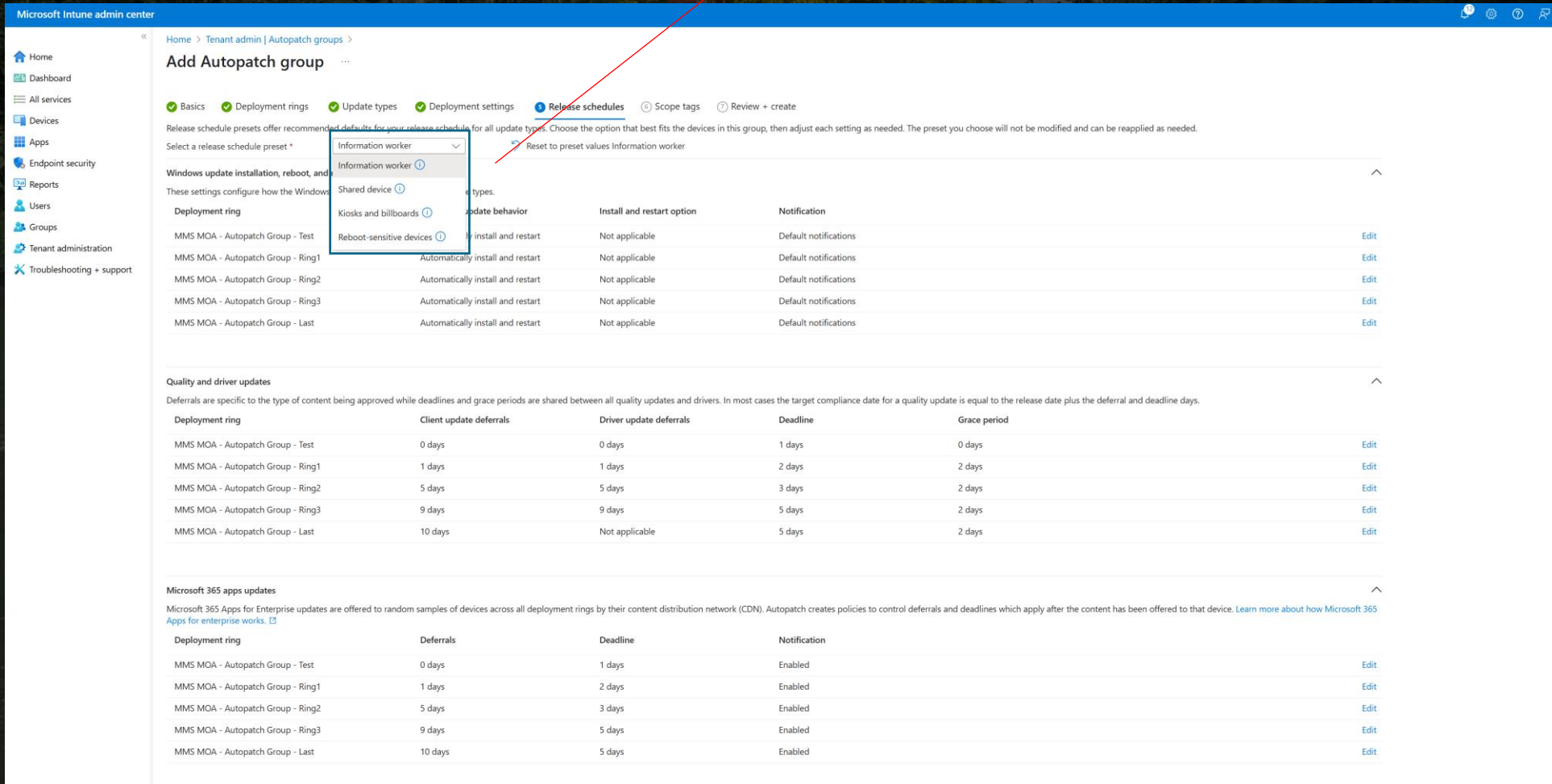
Stable

MMS MOA - Autopatch Group - Last

Stable

Autopatch groups – Release schedules

!! Note the Schedule presets



The screenshot shows the 'Add Autopatch group' page in the Microsoft Intune admin center. The 'Release schedules' tab is selected, and a dropdown menu is open showing the 'Information worker' preset. The page includes sections for 'Windows update installation, reboot, and update behavior', 'Quality and driver updates', and 'Microsoft 365 apps updates'.

Windows update installation, reboot, and update behavior

Deployment ring	Update behavior	Install and restart option	Notification
MMS MOA - Autopatch Group - Test	Information worker	Not applicable	Default notifications
MMS MOA - Autopatch Group - Ring1	Shared device	Not applicable	Default notifications
MMS MOA - Autopatch Group - Ring2	Kiosks and billboards	Not applicable	Default notifications
MMS MOA - Autopatch Group - Ring3	Reboot-sensitive devices	Not applicable	Default notifications
MMS MOA - Autopatch Group - Last	Automatically install and restart	Not applicable	Default notifications

Quality and driver updates

Deployment ring	Client update deferrals	Driver update deferrals	Deadline	Grace period
MMS MOA - Autopatch Group - Test	0 days	0 days	1 days	0 days
MMS MOA - Autopatch Group - Ring1	1 days	1 days	2 days	2 days
MMS MOA - Autopatch Group - Ring2	5 days	5 days	3 days	2 days
MMS MOA - Autopatch Group - Ring3	9 days	9 days	5 days	2 days
MMS MOA - Autopatch Group - Last	10 days	Not applicable	5 days	2 days

Microsoft 365 apps updates

Deployment ring	Deferrals	Deadline	Notification
MMS MOA - Autopatch Group - Test	0 days	1 days	Enabled
MMS MOA - Autopatch Group - Ring1	1 days	2 days	Enabled
MMS MOA - Autopatch Group - Ring2	5 days	3 days	Enabled
MMS MOA - Autopatch Group - Ring3	9 days	5 days	Enabled
MMS MOA - Autopatch Group - Last	10 days	5 days	Enabled

DEMO

Creating custom Autopatch groups



Adding devices to Autopatch

- ◆ Add Devices to the groups created earlier.

3 groups found

☐	Name ↕	Object Id	Group type	Membership type	Email
☐	 MMS MOA - Dynamic Distribution Group	58888631-89ae-41f1-986f-2f3987ed1f8e	Security	Assigned	
☐	 MMS MOA - Dedicated Test Ring	87bd5914-0fd1-4e4b-a1ed-4a9fd5087418	Security	Assigned	
☐	 MMS MOA - Dedicated Last Ring	ca95f373-7f53-4b8c-90b3-e7b492c6dc68	Security	Assigned	

Monitor device registration

Microsoft Intune admin center

Home > Devices > Windows updates >

Autopatch devices

Registered Not registered

Changes you make to devices will take up to 2 hours to be reflected here

These devices are currently or were once managed by Windows Autopatch. To register more devices, add members to the [Microsoft Entra groups](#) associated with your policies and [Autopatch groups](#). It can take up to an hour for registered devices to appear here or select [Discover devices](#) to see them sooner.

Total devices: 1 Ready devices: 1 Not ready devices: 0

Refresh Export Columns Discover devices Assign ring Exclude device

Search Add filters

☐	Device name ↑↓	Update status ↑↓	Autopatch readiness ↑↓	Autopatch group ↑↓	Deployment ring ↑↓	Last check-in ↑↓	Model ↑↓
☐	GN-KENGOOS-AIT	Not up to date	Ready	Windows Autopatch	Windows Autopatch - Test	04/24/2025, 04:29 PM	Microsoft Surface Pro, 11th Edition

Microsoft Intune admin center

Home >

Autopatch devices

Registered Not registered

Changes you make to devices will take up to 2 hours to be reflected here

These devices are not managed by Windows Autopatch or have been excluded. To register devices, add members to the [Microsoft Entra groups](#) associated with your policies and [Autopatch groups](#).

Refresh Export Columns Discover devices Restore excluded device

Search Add filters

☐	Device name ↑↓	Serial Number	Status ↑↓	Last check-in ↑↓	Model ↑↓
☒	CPC-40XT1	0000-0017-3803-3565-4124-7983-53	Excluded	07/29/2024, 01:33 PM	Cloud PC Enterprise 4vCPU/16GB/128GB
☐	CPC-84OF2	0000-0007-8129-1709-2723-1478-30	Excluded	07/29/2024, 09:55 AM	Cloud PC Enterprise 4vCPU/16GB/128GB
☐	CPC-XHTEF	0000-0011-8827-1720-7703-2099-05	Excluded	07/29/2024, 10:01 PM	Cloud PC Enterprise 4vCPU/16GB/128GB

Create Autopatch multi-phase release

View your Windows feature update policy settings and create new feature up

+ Create ▾ Refresh Export Columns ▾

Create feature update policy

Create Autopatch multi-phase release

⌵ Add filters

> Name

Create Autopatch multi-phase release

Object Type

Create Autopatch multi-phase release

Microsoft Intune admin center

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Create a new release ...

1 Basics

2 Autopatch groups

3 Release phases

4 Release schedule

5 Scope tags

6 Review + create

1 First deployment cannot be after the end of servicing date for the Windows version to deploy. The end of servicing date is 12/10/2027.

Name *

MMS MOA - Windows 24H2 Upgrade

Description

This release will upgrade targeted devices to Windows 11 24H2

Target version *

Windows 11, version 24H2

☒ Make available to users as a required update

☐ Make available to users as an optional update

☐ When a device isn't eligible to run Windows 11, install the latest Windows 10 feature update

1 By selecting this Feature update to deploy you are agreeing that when applying this operating system to a device either (1) the applicable Windows license was purchased through volume licensing, or (2) that you are authorized to bind your organization and are accepting on its behalf the relevant Microsoft Software License Terms to be found here <https://aka.ms/useterms>.

Create Autopatch multi-phase release

Microsoft Intune admin center

Home > Devices | Windows updates >

Create a new release

1 Basics 2 Autopatch groups 3 Release phases 4 Release schedule 5 Scope tags 6 Review + create

Select Autopatch groups to include in this release. Go to Tenant administration to [manage your Autopatch groups](#).

Name	Description	Deployment rings
☐ Windows Autopatch	Windows Autopatch, the default Autopatch Group	3
☒ MMS MOA - Autopatch Group		5

Create Autopatch multi-phase release

Microsoft Intune admin center

Home > Devices | Windows updates >

Create a new release

Basics Autopatch groups **Release phases** Release schedule Scope tags Review + create

Releases are sequentially deployed across Autopatch groups. By default, Windows Autopatch pre-populates each phase within the release with Autopatch groups and deployment rings for you. Review Autopatch groups and its deployment rings to be included in each phase of this release and customize as needed.

+ Add phase Reset to default Expand all Collapse all Delete empty phases

Phase 1			Edit Delete	
	Autopatch groups	Deployment ring		
	MMS MOA - Autopatch Group	Test		
Phase 2			Edit Delete	
	Autopatch groups	Deployment ring		
	MMS MOA - Autopatch Group	Ring1		
Phase 3			Edit Delete	
	Autopatch groups	Deployment ring		
	MMS MOA - Autopatch Group	Ring2		
Phase 4			Edit Delete	
	Autopatch groups	Deployment ring		
	MMS MOA - Autopatch Group	Ring3		
Phase 5			Edit Delete	
	Autopatch groups	Deployment ring		
	MMS MOA - Autopatch Group	Last		

Create Autopatch multi-phase release

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Create a new release

Basics

Autopatch groups

Release phases

Release schedule

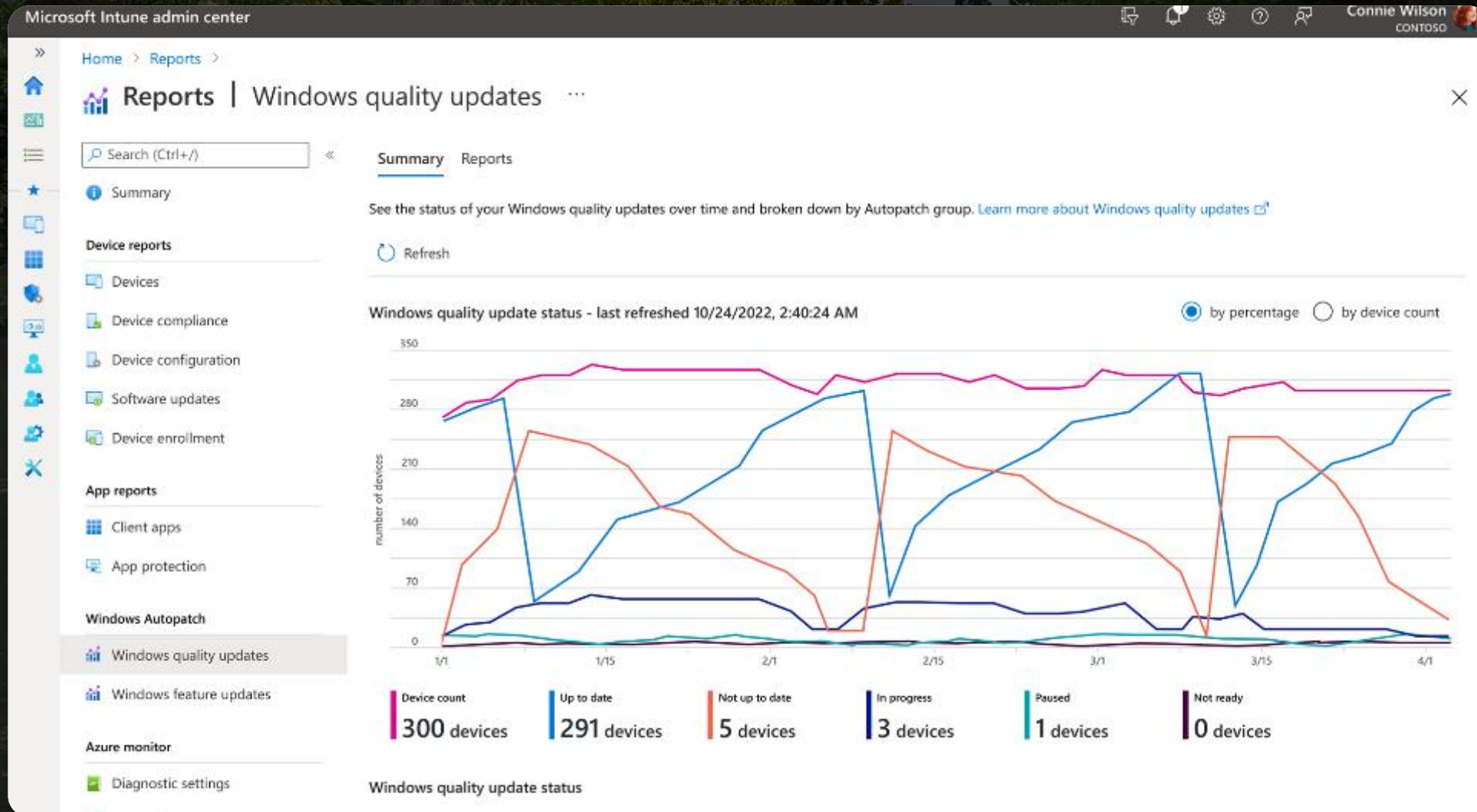
Scope tags

Review + create

Releases will be deployed sequentially across release phases. The update can either be deployed to each ring gradually, where the update service intelligently creates groups of devices based on hardware and app characteristics, or all at once.

Release phase	Availability of update	First group availability	Last group availability	Days in between groups	Gradual rollout groups
Phase 1	As soon as possible	Not applicable	Not applicable	Not applicable	Not applicable
Phase 2	On a specific date	7/28/25	Not applicable	Not applicable	Not applicable
Phase 3	Gradually	8/25/25	9/15/25	7	3
Phase 4	Gradually	9/22/25	10/13/25	7	3
Phase 5	On a specific date	10/27/25	Not applicable	Not applicable	Not applicable

Quality update reports



Quality update status

Microsoft Intune admin center

Home > Reports | Windows quality updates

Quality update status

Refresh Export Columns 194 items

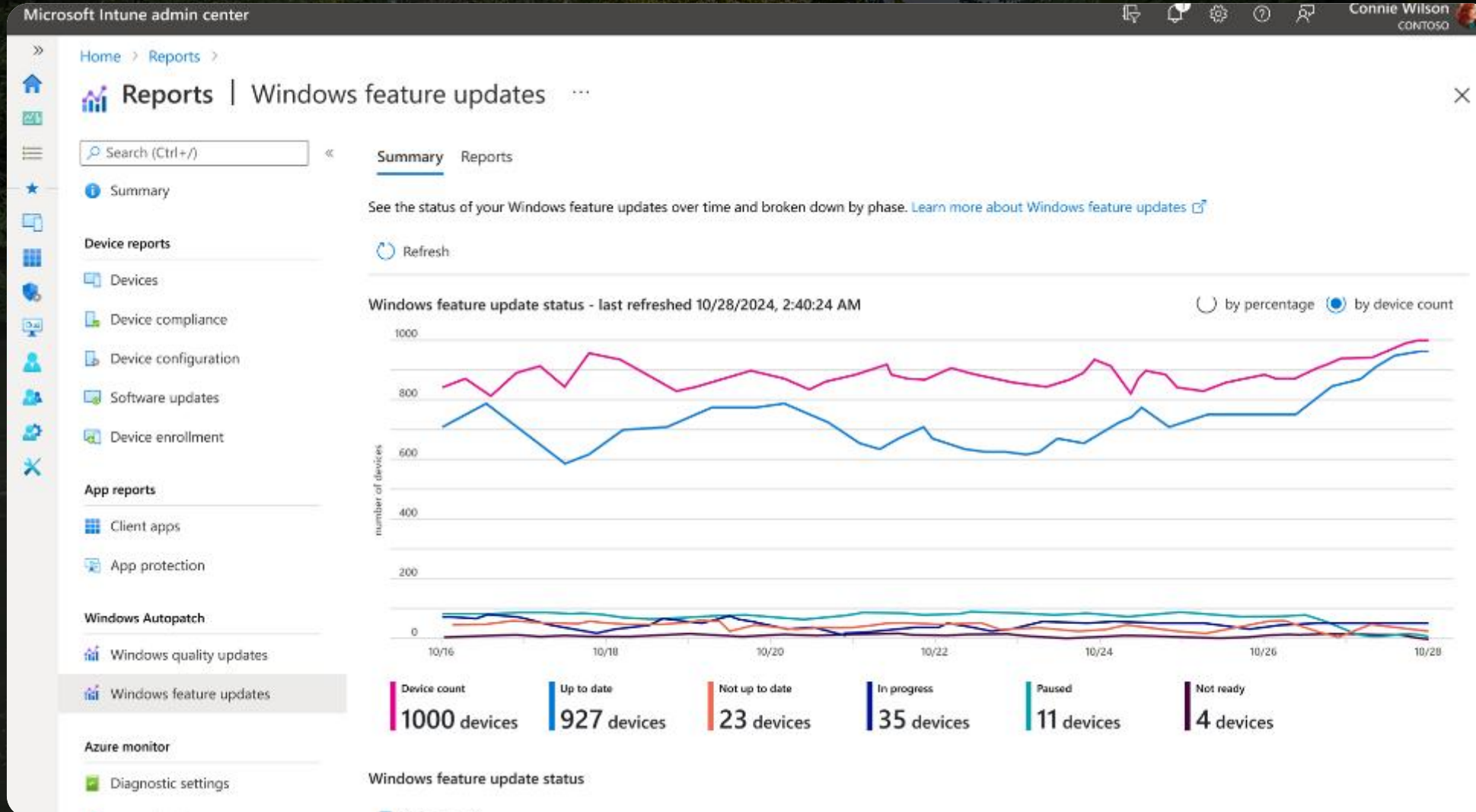
Search

Autopatch group : Windows Autopatch Update status : Up to date Add filter

Device count	Up to date	Not up to date	In progress	Paused	Not ready
194 devices	194 devices	0 devices	0 devices	0 devices	0 devices

Device name ↓	Autopatch group	Deployment ring	Update status	Pause status	OS Version	Readiness	Alerts	Microsoft Entra dev...
DESKTOP - T008Yt	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
CPC-user2-93WDB	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-083L6DQ	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-212F9D7	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-223HKPM	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-2N0PT6S	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-38TP6B3	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-3LNKCC6	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-481TUVA	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-65G4DN0	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-7G4HFDP	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-B6232U0	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...
DESKTOP-F6DNKFE	Windows Autopatch	WindowsAutopatch...	Up to date	Not paused	22000.1098	Ready	No alerts	992385a7-9f91-430...

Feature update reports



Hotpatch technology

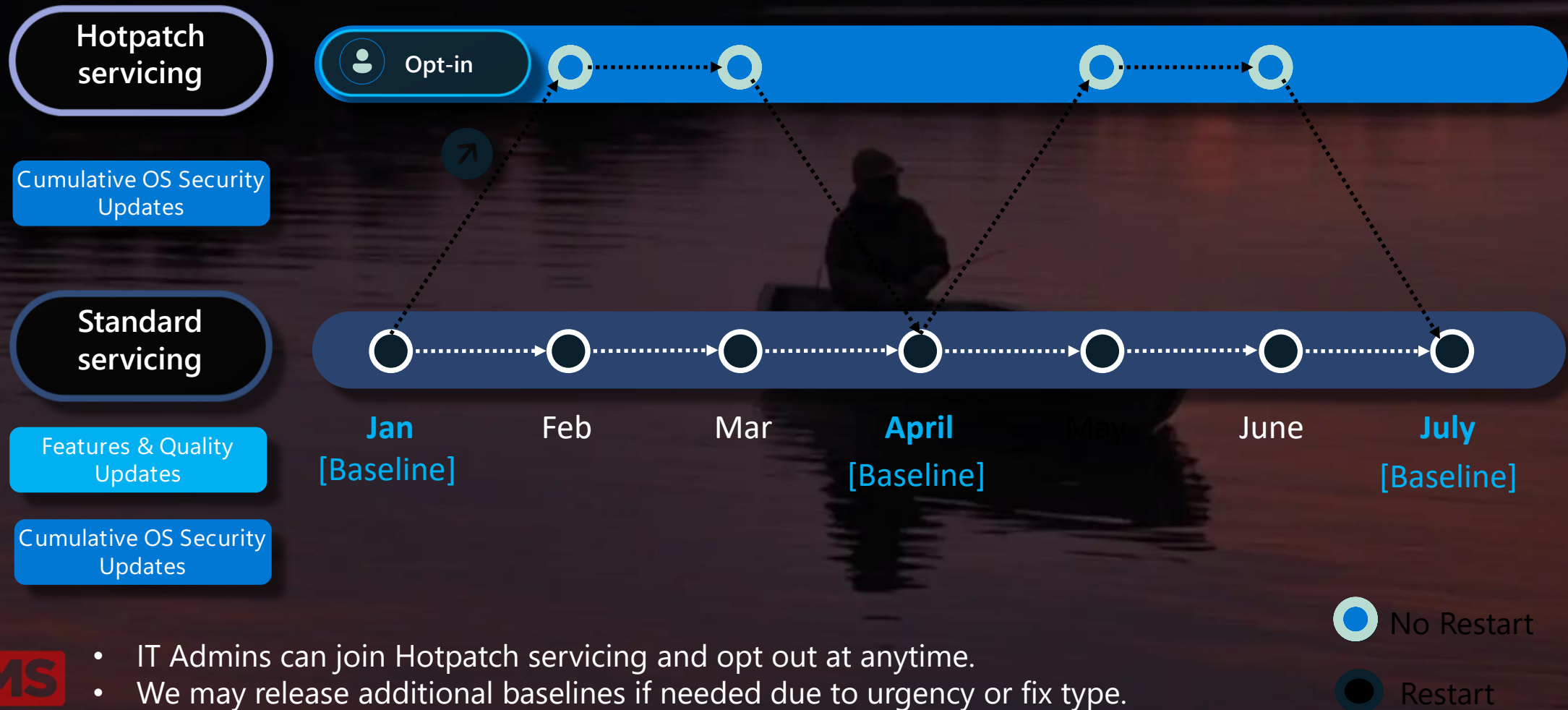
What is Hotpatching?

The ability to install security patches without a restart. Accomplished by modifying in-memory code without restarting the PC, server, process or applications.

Hotpatch updates are full "Patch Tuesday" cumulative security updates that install and take effect without a restart.

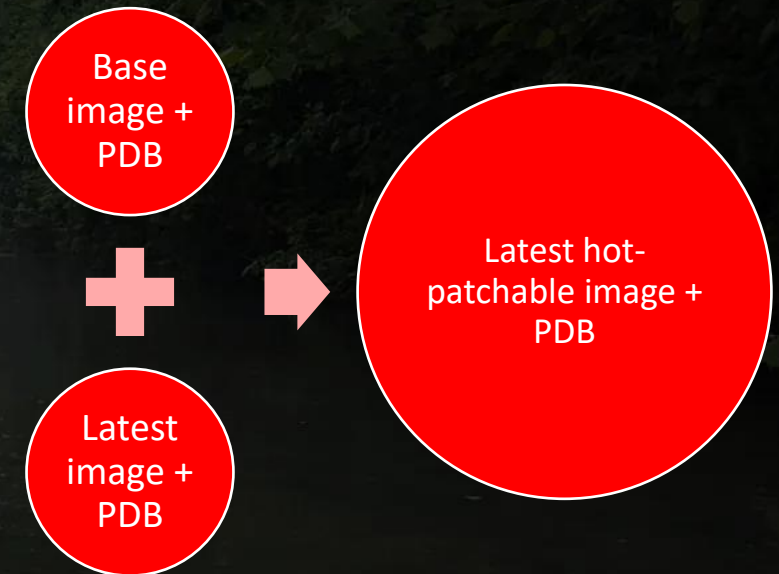
Hotpatch Updates

Release Cycle



Hotpatching Terms

- ♦ **Base Binary** – The original shipped binary which has the bug to which Hotpatch fix needs to be applied
- ♦ **Intermediate Binary** – The is normal binary which compiler generates for the modified code with the list of impacted functions identified for Hotpatching
- ♦ `C:/> cl ... -d2SecureHotPatch:foo -d2SecureHotPatch:bar...`
- ♦ **Hotpatch Binary** - The final patch binary, which consists of the intermediate patch binary object code plus the necessary hot patch metadata written to the .hpdata section of the final image.





Hotpatch prerequisite – Enable VBS

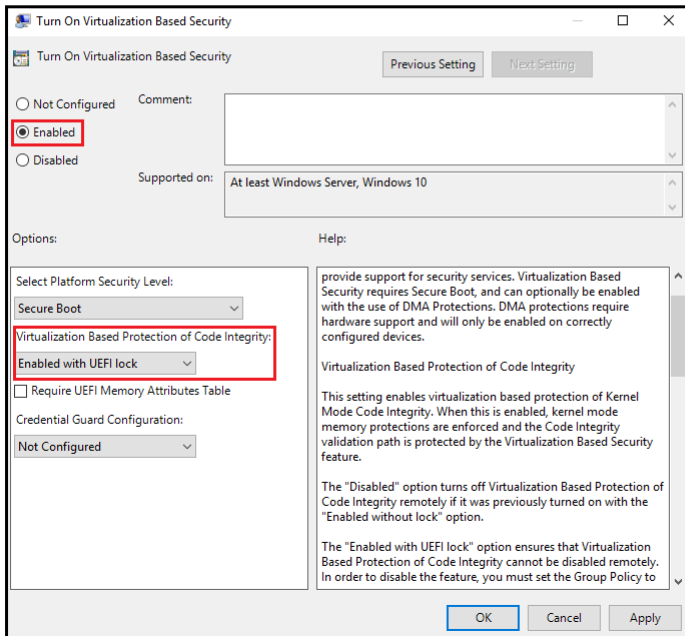


Option 1

Enable VBS w/ Group Policy

Enable memory integrity using Group Policy

1. Use Group Policy Editor (gpedit.msc) to either edit an existing GPO or create a new one.
2. Navigate to **Computer Configuration > Administrative Templates > System > Device Guard**.
3. Double-click **Turn on Virtualization Based Security**.
4. Select **Enabled** and under **Virtualization Based Protection of Code Integrity**, select **Enabled without UEFI lock**.
Only select **Enabled with UEFI lock** if you want to prevent memory integrity from being disabled remotely or by policy update. Once enabled with UEFI lock, you must have access to the UEFI BIOS menu to turn off Secure Boot if you want to turn off memory integrity.



Option 2

Enable VBS by setting a registry key:

To enable VBS only (no memory integrity)

Windows Command Prompt

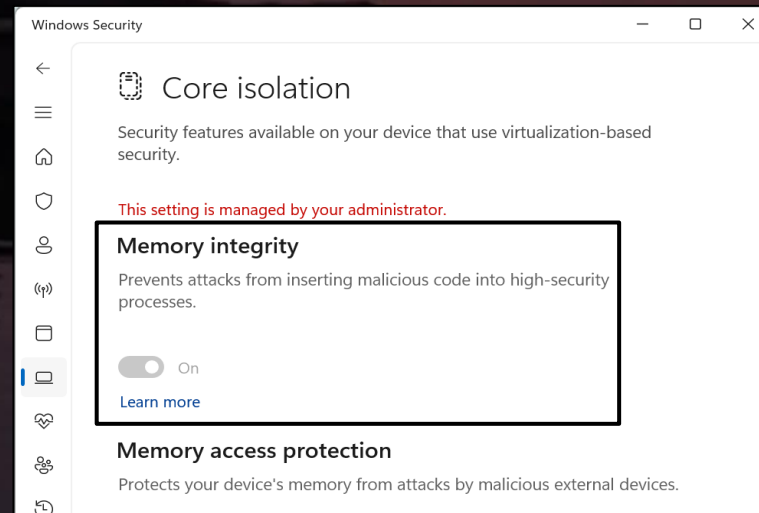
Copy

```
reg add "HKLM\SYSTEM\CurrentControlSet\Control\DeviceGuard" /v "EnableVirtualizationBasedSecurity" /t REG_DWORD /d 1 /f
```

Option 3

Windows Settings

Settings->Device Security->Core Isolation
Set Memory integrity "on" and restart.



ARM64 PC must disable CHPE before hotpatch



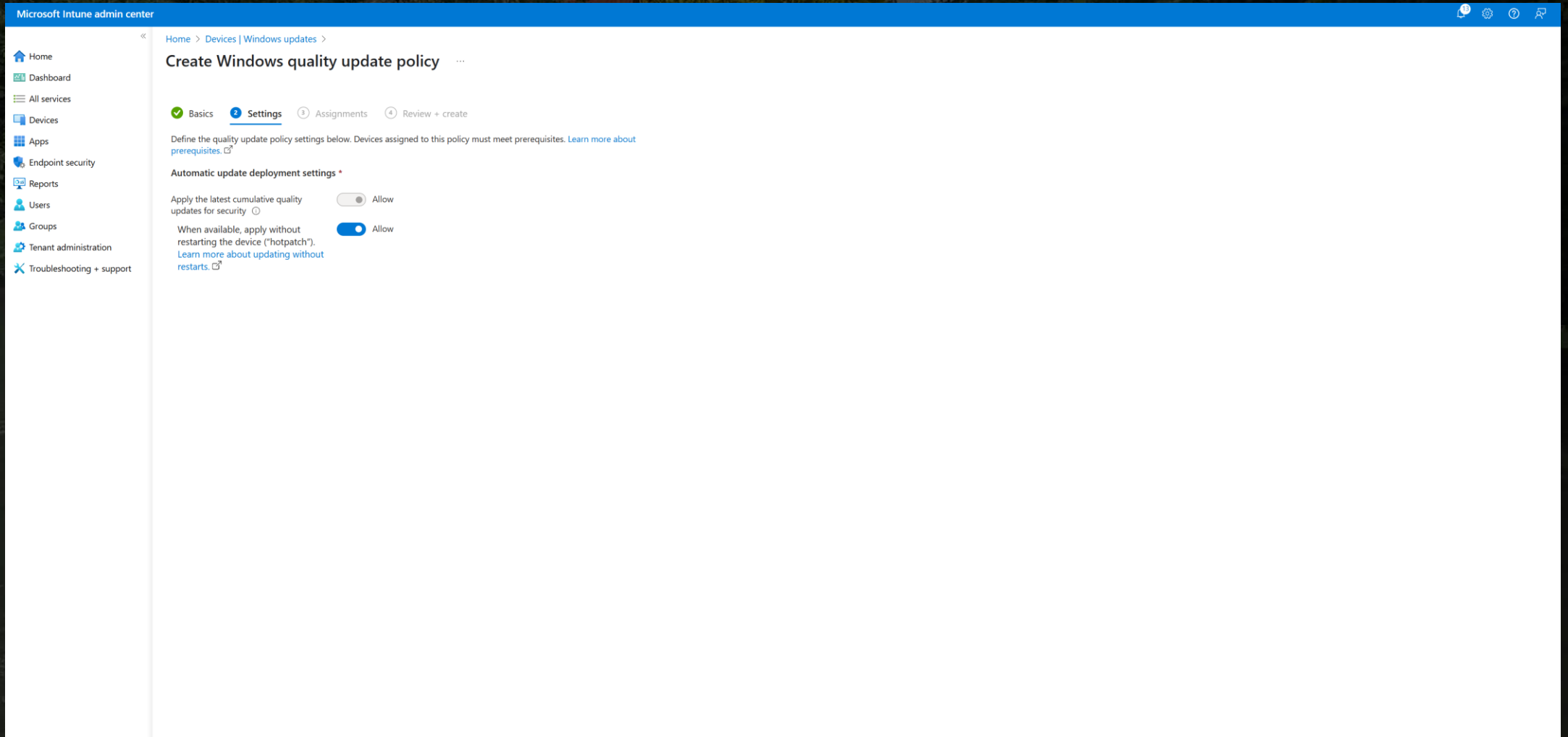
ARM64 PCs must manually disable CHPE before attempting to install hotpatch updates. Set the registry key and restart the device.

HKLM\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management

DWORD Key value: HotPatchRestrictions=1

The screenshot shows a web browser displaying a Microsoft Learn article titled "Virtualization based security (VBS)". The left sidebar contains a navigation menu with categories like "Windows Autopatch", "Overview", "Prepare", "Deploy", and "Manage". Under "Manage", there are sub-items such as "Release schedule", "Update rings", "Windows Autopatch groups", "Windows feature updates", "Windows quality updates", "Windows quality update end user experience", "Windows quality update communications", "Windows quality update policies", "Programmatic controls for expedited Windows quality updates", "Hotpatch updates", "Driver and firmware updates", "Microsoft 365 Apps for enterprise", "Microsoft Edge", "Microsoft Teams", and "Submit a support request". The "Hotpatch updates" item is highlighted. The main content area has the title "Virtualization based security (VBS)" and a sub-section "Arm 64 devices must disable compiled hybrid PE usage (CHPE) (Arm 64 CPU Only)". The text explains that VBS must be turned on for Hotpatch updates and that CHPE OS binaries are not compatible. It instructs users to set the CHPE disable flag and restart the device. The registry path is given as `Path: HKLM\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management` with the DWORD key value `HotPatchRestrictions=1`. An "Important" callout box states that this setting forces the OS to use x86-only binaries instead of CHPE binaries on Arm 64 devices. At the bottom, it notes that if users no longer use Hotpatch updates, they should clear the flag (`HotPatchRestrictions=0`) and restart the device.

Create the Hotpatch policy



The screenshot displays the Microsoft Intune admin center interface. The left-hand navigation pane includes links to Home, Dashboard, All services, Devices, Apps, Endpoint security, Reports, Users, Groups, Tenant administration, and Troubleshooting + support. The main content area is titled 'Create Windows quality update policy' and shows a four-step wizard: Basics, Settings (active), Assignments, and Review + create. Below the wizard steps, a message states: 'Define the quality update policy settings below. Devices assigned to this policy must meet prerequisites. [Learn more about prerequisites.](#)' The 'Automatic update deployment settings' section contains two toggle switches, both set to 'Allow'. The first toggle is for 'Apply the latest cumulative quality updates for security'. The second toggle is for 'When available, apply without restarting the device ("hotpatch")', with a link to '[Learn more about updating without restarts.](#)'

Microsoft Intune admin center

Home > Devices | Windows updates >

Create Windows quality update policy

✓ Basics 2 Settings 3 Assignments 4 Review + create

Define the quality update policy settings below. Devices assigned to this policy must meet prerequisites. [Learn more about prerequisites.](#)

Automatic update deployment settings *

Apply the latest cumulative quality updates for security ☐ Allow

When available, apply without restarting the device ("hotpatch"). ☒ Allow

[Learn more about updating without restarts.](#)

Process Explorer to identify hotpatch dll's

The screenshot displays the Sysinternals Suite interface. The main window is Process Explorer, showing a list of processes. The 'Handles' tab is selected, displaying a list of loaded DLLs. A search window titled 'Process Explorer Search' is open, showing search results for 'hotpatch'.

Process Explorer - Sysinternals: www.sysinternals.com [REDMONDYdcallaghan]

Process List:

Process	CPU	Private Bytes	Working Set	PID	Description	Company Name
WidgetService.exe	< 0.01	6,032 K	24,784 K	3336	WidgetService.exe	Microsoft Corporation
OpenConsole.exe	< 0.01	4,112 K	6,328 K	8748		
RuntimeBroker.exe		2,528 K	5,180 K	7652	Runtime Broker	Microsoft Corporation
WmiPvSE.exe		14,328 K	18,800 K	21964		
WmiPvSE.exe		9,708 K	12,200 K	19408		
WmiPvSE.exe		12,924 K	19,440 K	18784		
StartMenuExperienceHost.exe	< 0.01	85,856 K	179,244 K	944	Windows Start Experience Host	Microsoft Corporation
ShellExperienceHost.exe	Susp...	26,896 K	82,032 K	22256	Windows Shell Experience Host	Microsoft Corporation
RuntimeBroker.exe	< 0.01	3,616 K	27,720 K	21068	Runtime Broker	Microsoft Corporation
SystemSettings.exe	Susp...	42,020 K	99,872 K	21236	Settings	Microsoft Corporation
LockApp.exe	Susp...	26,480 K	85,040 K	7872	LockApp.exe	Microsoft Corporation
RuntimeBroker.exe	< 0.01	12,564 K	60,420 K	11296	Runtime Broker	Microsoft Corporation
RuntimeBroker.exe	< 0.01	4,296 K	30,208 K	21952	Runtime Broker	Microsoft Corporation
WmiPvSE.exe	< 0.01	13,700 K	41,156 K	22364		

Handles - DLLs

Name	Description	Company Name	Path
C_1252.NLS			C:\Windows\System32\C_1252.NLS
C_1252.NLS			C:\Windows\System32\C_1252.NLS
C_437.NLS			C:\Windows\System32\C_437.NLS
C_437.NLS			C:\Windows\System32\C_437.NLS
cfgmgr32.dll	Configuration Manager DLL	Microsoft Corporation	C:\Windows\System32\cfgmgr32.dll
clbcatq.dll	COM+ Configuration Catalog	Microsoft Corporation	C:\Windows\System32\clbcatq.dll
clbcatq.dll	Cloud API user mode API	Microsoft Corporation	C:\Windows\System32\clbcatq.dll
combase.dll	Microsoft COM for Windows	Microsoft Corporation	C:\Windows\System32\combase.dll
combase.dll.mui	Microsoft COM for Windows	Microsoft Corporation	C:\Windows\System32\en-US\combase.dll.mui
CoreMessaging.dll	Microsoft CoreMessaging DLL	Microsoft Corporation	C:\Windows\System32\CoreMessaging.dll
CoreMessaging_hotpatch.dll	Microsoft CoreMessaging DLL	Microsoft Corporation	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...
crypt32.dll	Crypto API32	Microsoft Corporation	C:\Windows\System32\crypt32.dll
cryptbase.dll	Base cryptographic API DLL	Microsoft Corporation	C:\Windows\System32\cryptbase.dll

Process Explorer Search

Handle or DLL substring: hotpatch

Search

63 matching items.

Process	Type	Name
ms-teams.exe	DLL	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...
ms-teams.exe	DLL	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...
ms-teams.exe	DLL	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...
StartMenuEx...	DLL	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...
StartMenuEx...	DLL	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...
WidgetServic...	DLL	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...
explorer.exe	DLL	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...
explorer.exe	DLL	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...
explorer.exe	DLL	C:\Windows\WinSxS\arm64_microsoft-windows-hotpatches_31bf385...

Download PDF

Autopatch API Private Preview Program

- ◆ Opt-in for private preview program (via account manager or contact for Autopatch team)
- ◆ Once a month call with the Autopatch team for feedback:
 - Current API testing progress
 - Future development needs/wants
- ◆ Value:
 - Early influence on APIs delivered (Autopatch feature priorities, development or structure of APIs, scenarios needed, etc.).
 - Development guidance/recommendation for specific scenarios utilizing Autopatch APIs.

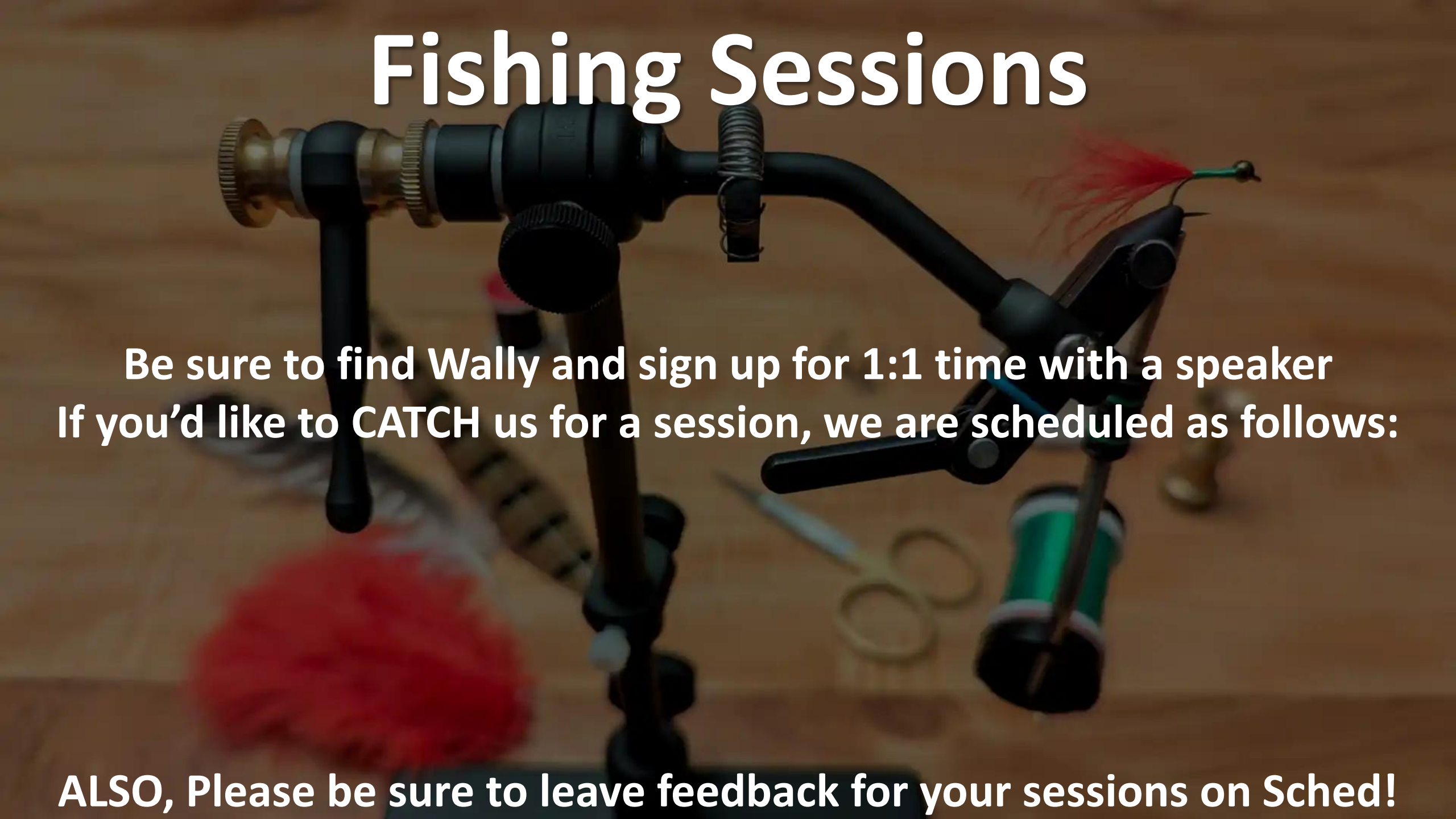
Survey

If you are interested in Autopatch Graph APIs, please fill out our survey. We'd love to hear your feedback on what is most important for you.



<https://nam.dcv.ms/HRHvQBhC9e>

Fishing Sessions

A close-up photograph of a fly fishing reel and a fly fishing lure. The reel is black with brass-colored accents and is mounted on a wooden surface. A fly fishing lure with a red feather and a green body is attached to the reel. The background is a wooden surface with various fishing tools and materials scattered around.

Be sure to find Wally and sign up for 1:1 time with a speaker
If you'd like to CATCH us for a session, we are scheduled as follows:

ALSO, Please be sure to leave feedback for your sessions on Sched!

Save the Dates

12-15 Oct. 2025



May 3-7, 2026



Oct 25-28, 2026



Extended Q&A

