

DON'T CALL IT WINDOWS AUTOPILOT V2, BUT WINDOWS AUTOPILOT DEVICE PREPARATION

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Thank you to our sponsor

Xylos



Who am I?



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AGENDA

Agenda

- Windows Autopilot Device Preparation
- Windows Autopilot Device Preparation vs. Windows Autopilot
- Pros and Cons
- How does Windows Autopilot Device Preparation Works?
- Demo
- Reporting & Monitoring

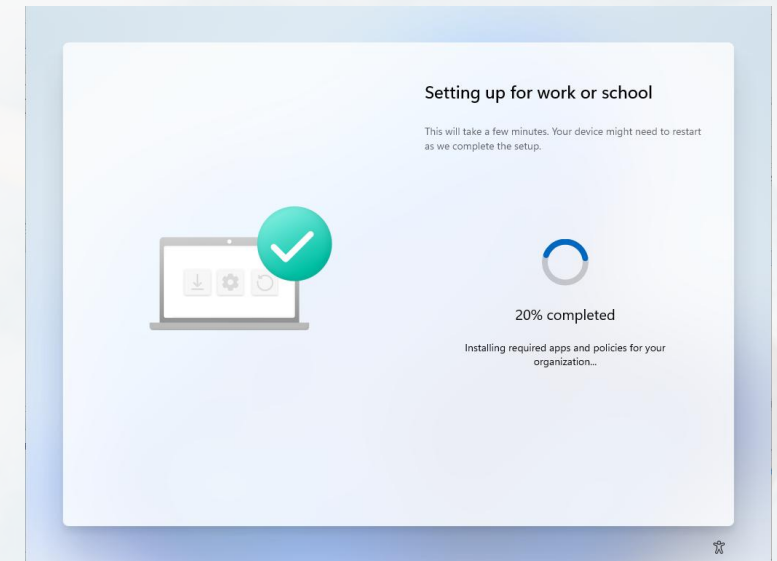


WINDOWS AUTOPILOT DEVICE PREPARATION?

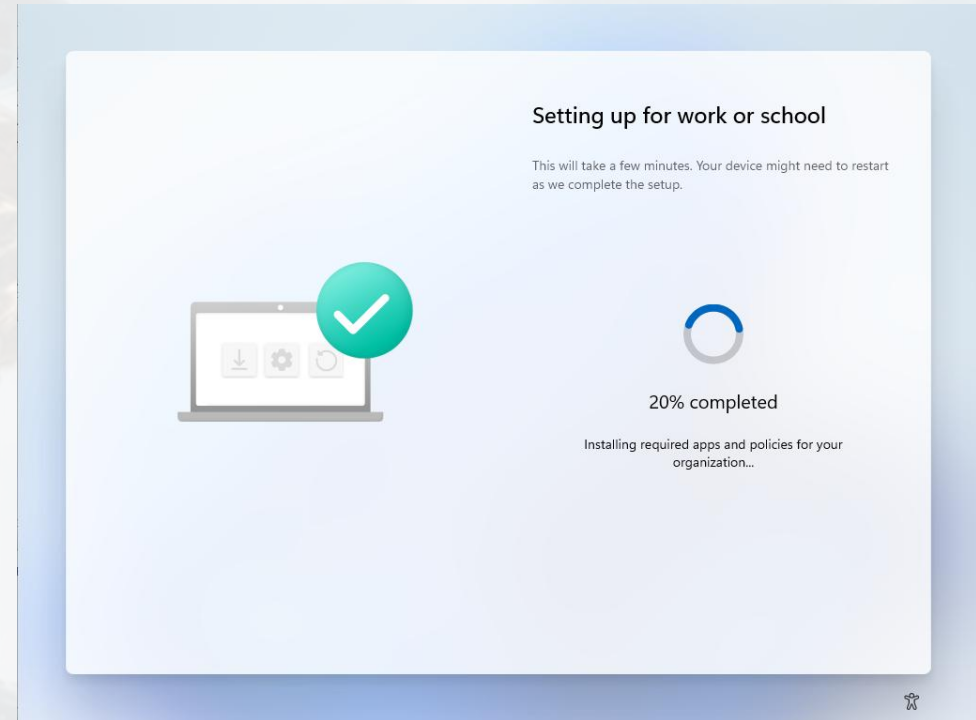
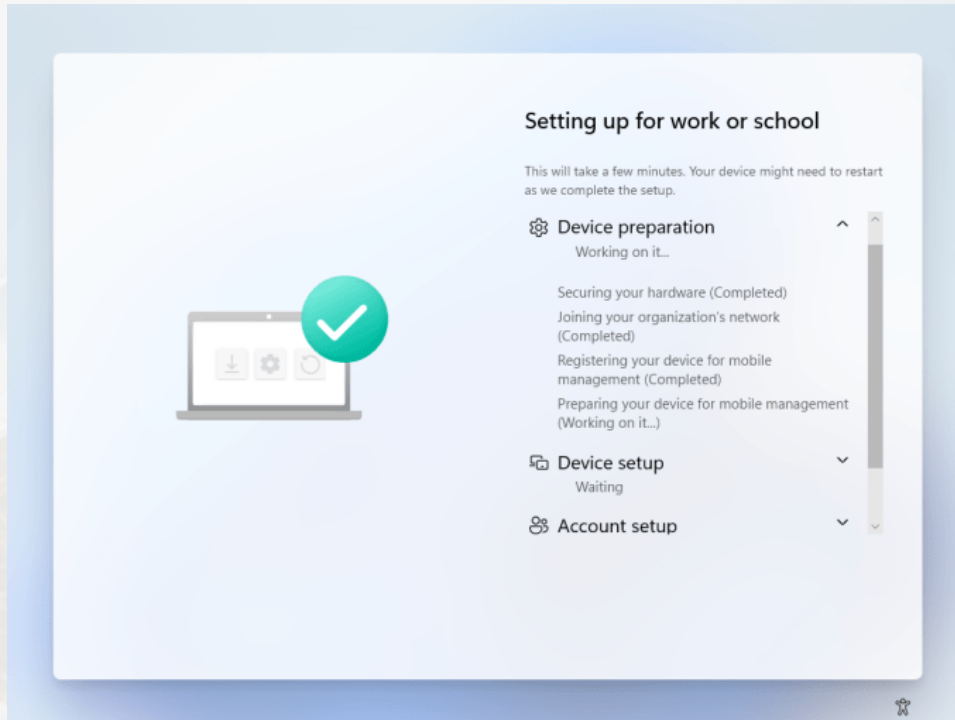
Windows Autopilot Device Preparation

Simplifies and speeds up the deployment of new devices by delivering consistent configurations and improving monitoring capabilities.

- Reducing the time IT spends on deploying devices.
- Reducing the infrastructure required to maintain the devices.
- Maximizing ease of use for all types of end users.
- Near real-time deployment status and monitoring.



Classic vs. Device Preparation



Classic vs. Device Preparation

	WINDOWS AUTOPILOT DEVICE PREPARATION	WINDOWS AUTOPILOT
Device Registration Required?	No	Yes
Supported Deployment Modes	User-driven Automatic (Preview)	User-driven, pre-provisioned, self-deploying
Provisioning Speed	Faster, more consistent provisioning	Standard provisioning experience
Monitoring & Troubleshooting	Near real-time monitoring and troubleshooting info	Standard reporting, not real-time
Supported Windows versions	Windows 11, version 24h2 or later	All currently supported versions of Windows 11 & Windows 10
Join Types Supported	Microsoft Entra Join	Microsoft Entra Join, Microsoft Entra hybrid join



Pros and cons

PROS	CONS
Faster Provisioning	Limited deployment modes
Real-time monitoring	Microsoft Entra Join only
No device registration required	Fewer provisioning configurations
Maximizes ease of use	Requires Windows 11 24h2 or later



HOW DOES IT WORK?

Requirements

- Microsoft Intune P1 license (incl. in Microsoft 365 Business Premium, F1/F3, A1/A3/A5, E3/E5)
- Windows 11 23h2 or 24h2 with April CU Update.
- Microsoft Entra P1 or P2
- Microsoft Entra ID Device Group
- Microsoft Entra ID User Group
- Windows Autopilot Device Preparation Profile



Microsoft Entra ID – Groups



Device Group (Enrollment Time Grouping)

Type: Security

Membership type: Assigned

Owner: Intune Autopilot ConfidentialClient
(AppID f1346770-5b25-470b-88bd-d5744ab7952c)

Note

- In some tenants, the service principal might have the name of **Intune Autopilot ConfidentialClient** instead of **Intune Provisioning Client**. As long as the AppID of the service principal is **f1346770-5b25-470b-88bd-d5744ab7952c**, it's the correct service principal.
- If the **Intune Provisioning Client** or **Intune Autopilot ConfidentialClient** service principal with AppID of **f1346770-5b25-470b-88bd-d5744ab7952c** isn't available either in the list of objects or when searching, see [Adding the Intune Provisioning Client service principal](#) for next steps.



User Group

Type: Security

Membership type: Assigned or Dynamic User



Enrollment Time Grouping

Also known as Just-In-Time grouping, is a feature that speeds up app and policy provisioning by adding devices to a **Microsoft Entra security group** during enrollment

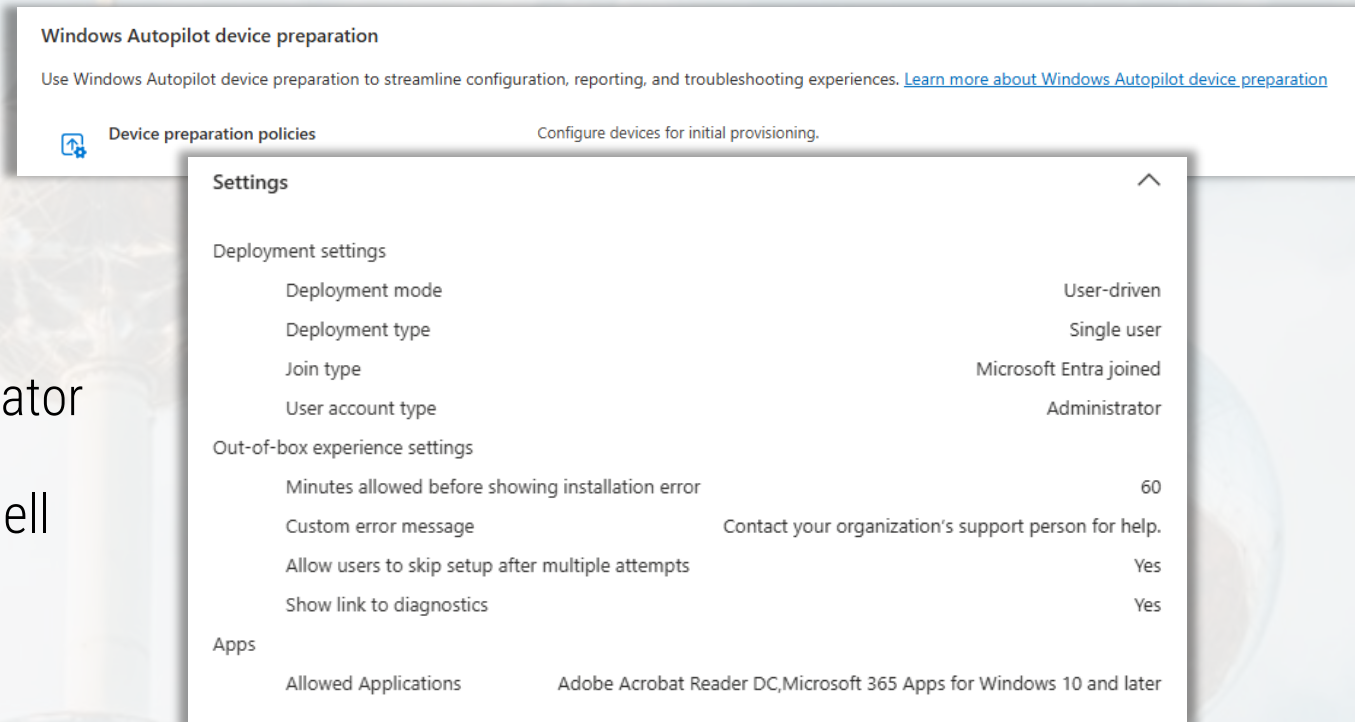
- Ensures devices receive required apps and policies immediately upon enrollment.
- Reduces post-enrollment latency, improving time to productivity.
- Helps **Microsoft Intune deliver configurations faster**, avoiding delays of up to 8 hours.

<https://call4cloud.nl/device-preparation-enrollment-time-grouping/>



Device Preparation Profile

- Deployment Mode: User-Driven
- Deployment Type: Single user
- Join Type: Microsoft Entra joined
- User account type: Standard user or Administrator
- Up to max. 10 managed apps and 10 PowerShell scripts during enrollment



Corporate Identifiers

Automatically classify devices as corporate-owned

- IMEI
- Serial Number

<https://inthecloud247.com/automatically-register-windows-corporate-device-identifiers-for-autopilot-device-preparation/>

Platform settings Edit					
Type	Platform	Min	Max	Personally owned	Blocked manufacturers
Android Enterprise (work prof...	Allow			Block	
Android device administrator	Allow			Block	
iOS/iPadOS	Allow			Block	N/A
macOS	Allow	N/A	N/A	Block	N/A
Windows (MDM)	Allow				

Add identifiers

Corporate device identifiers

You can import a list to add device identifiers and details. Imported files can contain only one type of identifier. Identifiers can't be used with some platforms.

Select identifier type

IMEI

IMEI

Serial number

Something went wrong.



This feature is not supported. Contact your system administrator with the error code 80180014.

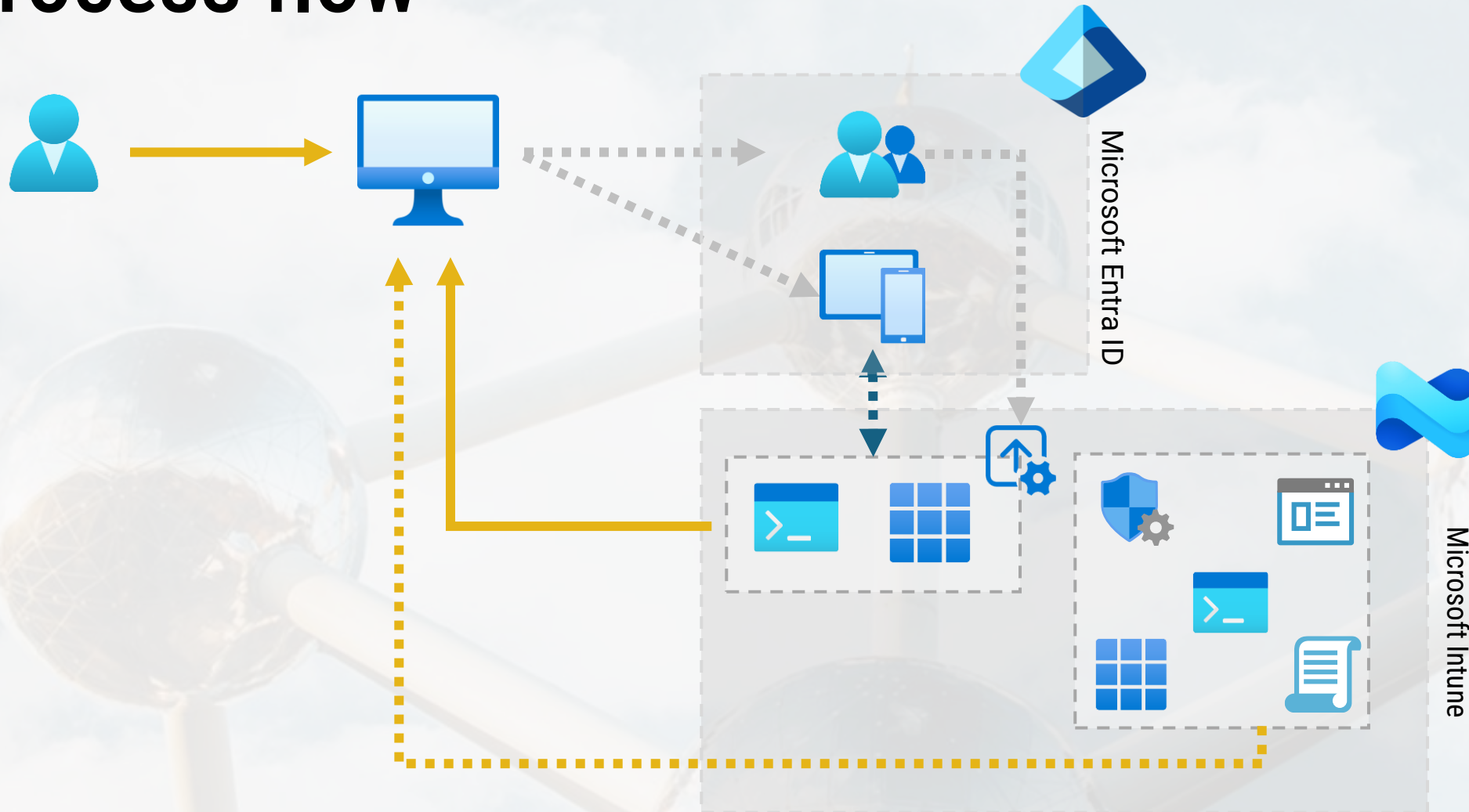
Additional problem information:

Server error code: 80180014
Correlation ID: Not available
Timestamp: 2025-05-05T19:01:37Z
Server message: Not available
More information: <https://www.microsoft.com/mdmerrors>

Try again

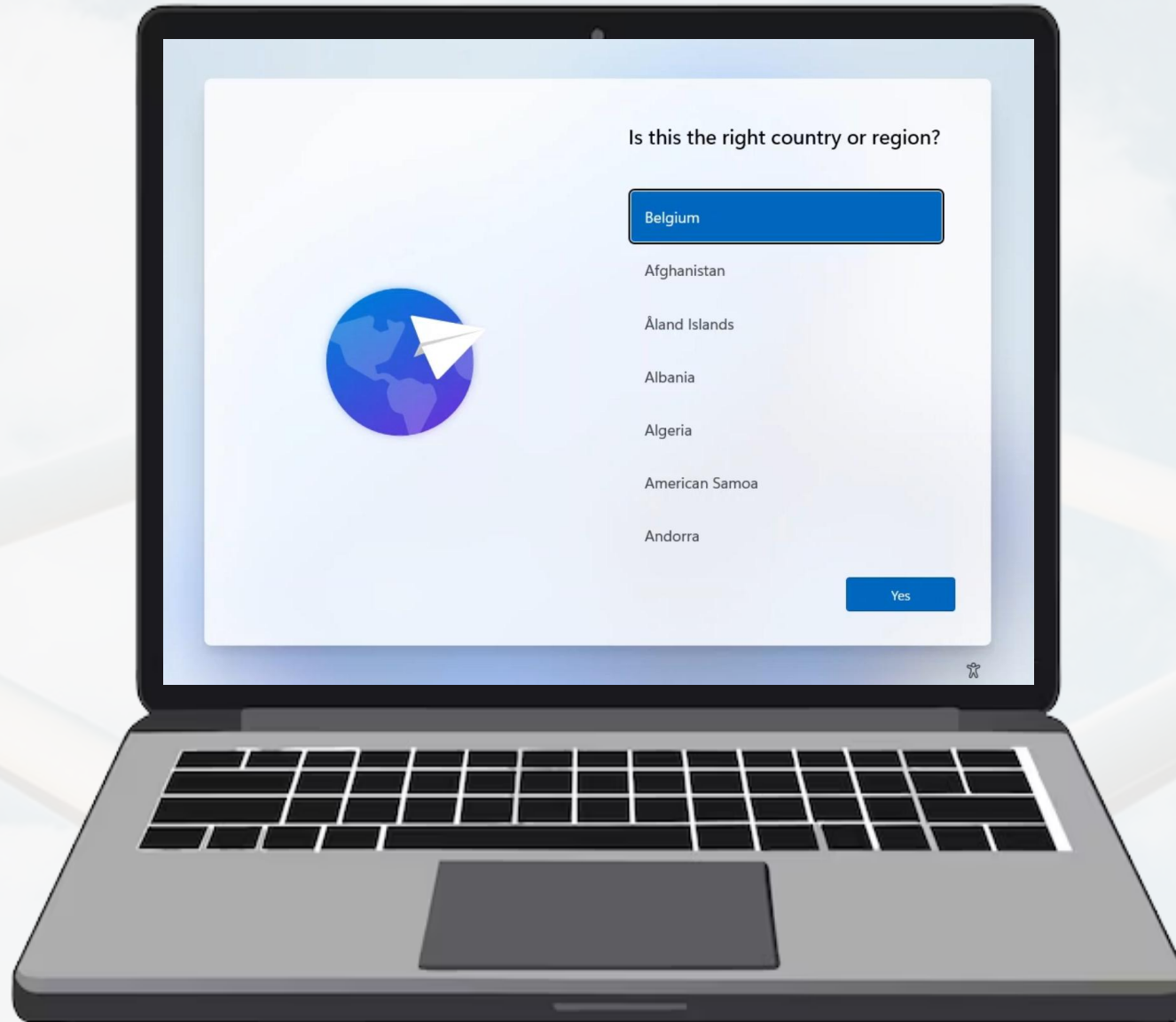


Process flow



DEMO

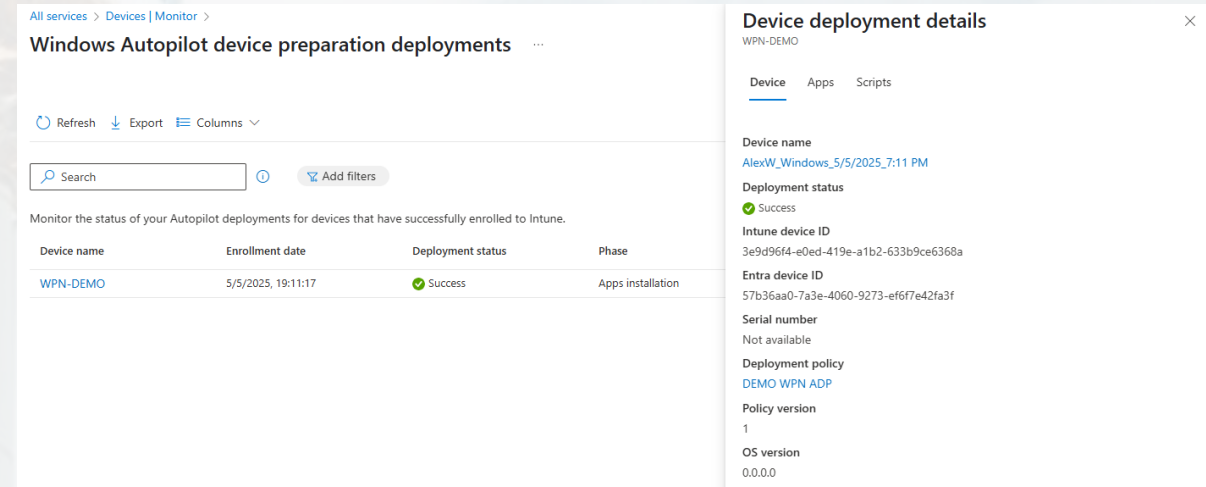
Enrollment



Reporting & Monitoring

Out of the box reporting and monitoring with **near real-time** status of deployments, including applications and PowerShell scripts details and deployment time.

- **Device:** Device Name, Deployment Status, ID, Serial Number, etc...
- **Apps:** Installed, In progress, Skipped, Failed...
- **Scripts:** Installed, In progress, Skipped, Failed...



The screenshot displays the 'Windows Autopilot device preparation deployments' page in the Intune console. The main table shows a single deployment for a device named 'WPN-DEMO', which was successfully deployed on 5/5/2025 at 19:11:17, with the phase being 'Apps installation'. A right-hand pane titled 'Device deployment details' provides further information for the selected device, including its name, deployment status (Success), Intune and Entra device IDs, serial number (Not available), deployment policy (DEMO WPN ADP), policy version (1), and OS version (0.0.0.0).

Device name	Enrollment date	Deployment status	Phase
WPN-DEMO	5/5/2025, 19:11:17	Success	Apps installation

Device deployment details

WPN-DEMO

Device name: AlexW_Windows_5/5/2025_7:11 PM

Deployment status: Success

Intune device ID: 3e9d96f4-e0ed-419e-a1b2-633b9ce6368a

Entra device ID: 57b36aa0-7a3e-4060-9273-ef6f7e42fa3f

Serial number: Not available

Deployment policy: DEMO WPN ADP

Policy version: 1

OS version: 0.0.0.0



ANY QUESTIONS?

THANK YOU!