

Modern Management of Windows Devices

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Agenda

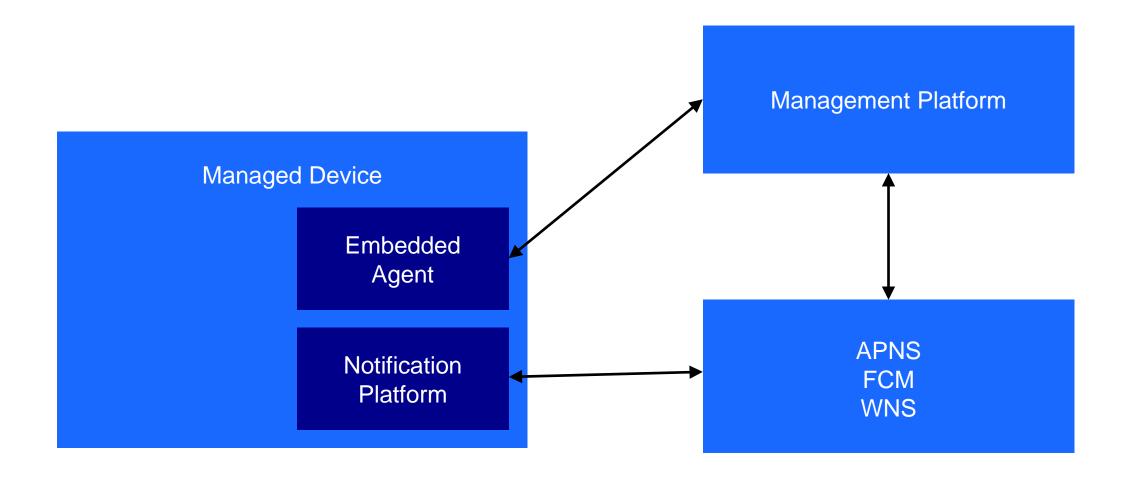
- What is Modern Management?
- Modern Management of Windows Devices
- ZENworks and Modern Management of Windows
- Windows Provisioning Package
- Windows Autopilot

What is Modern Management?

- Use of native OS built-in management agents or OS provided management API's
 - Supports 'agent less' management
- Requires internet connectivity for enrolment and subsequent management
 - Management servers reside either in Cloud or in a DMZ environment
 - Need Push notification services offered by OS vendors
- Lesser emphasis on custom OS images and more on customizing the built-in OS through applying settings and provisioning applications
 - Supports 'ZERO Touch by IT' scenarios
 - More focus on Self-Service / Self-deployment
- Wide variance between capabilities available across platforms
- OS supporting Modern Management
 - Windows 10/11 (Built-in Management Agent)
 - macOS (Built-in Management Agent)
 - Android (Uses OS provided management API's)
 - iOS / iPadOS (Built-in Management Agent)

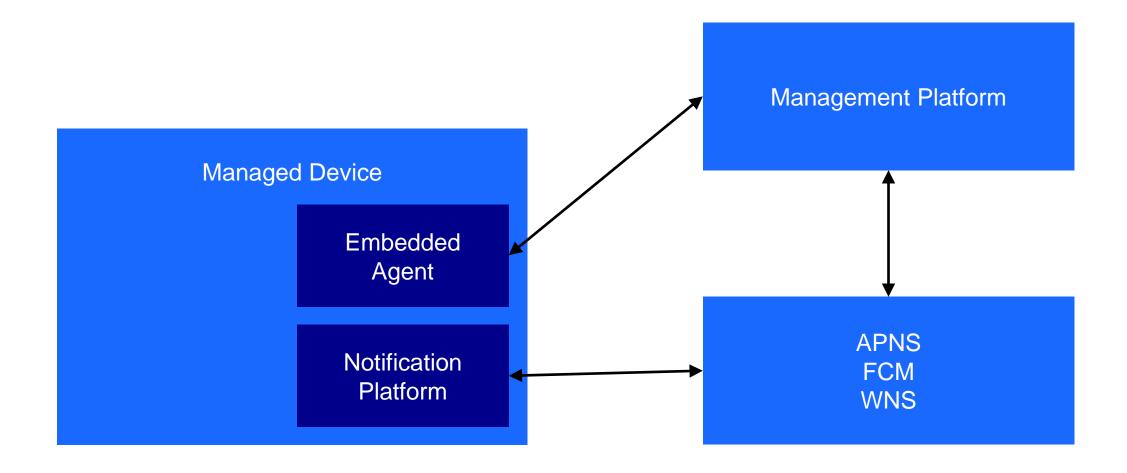


Modern Management



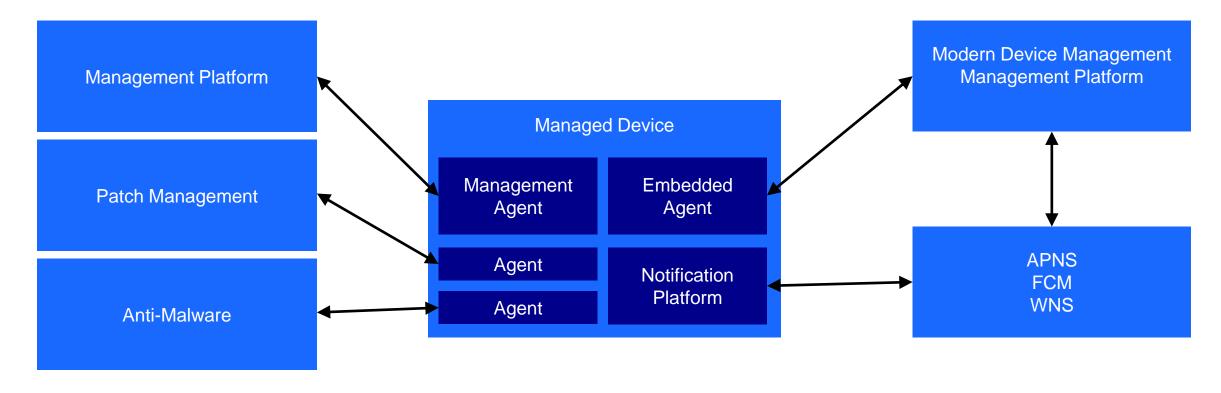


Modern Management



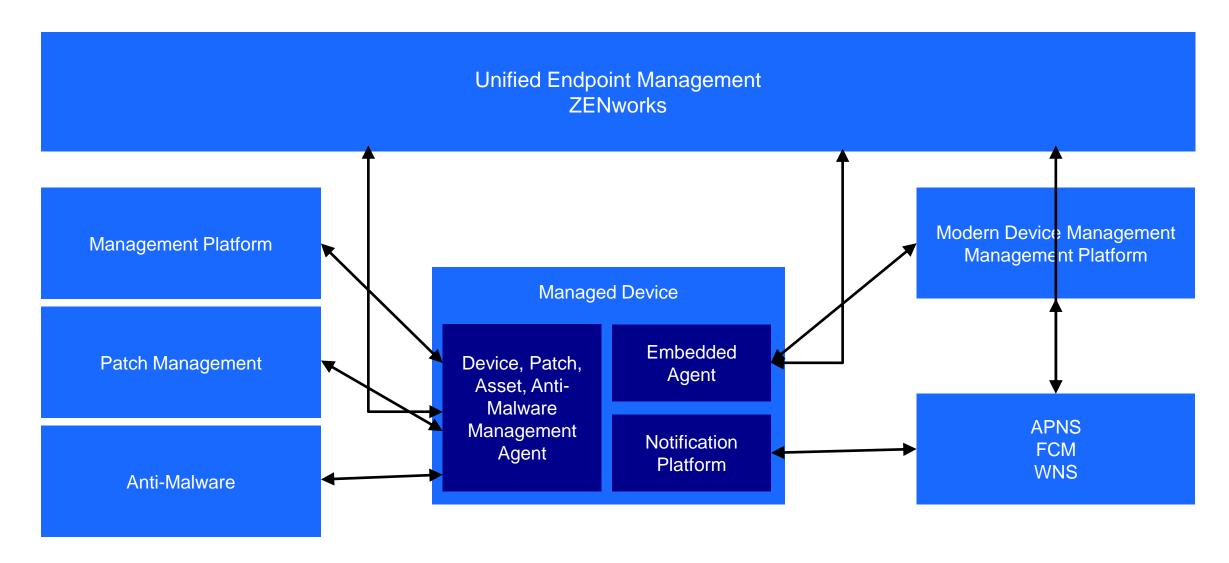


Managing Windows





Managing with ZENworks





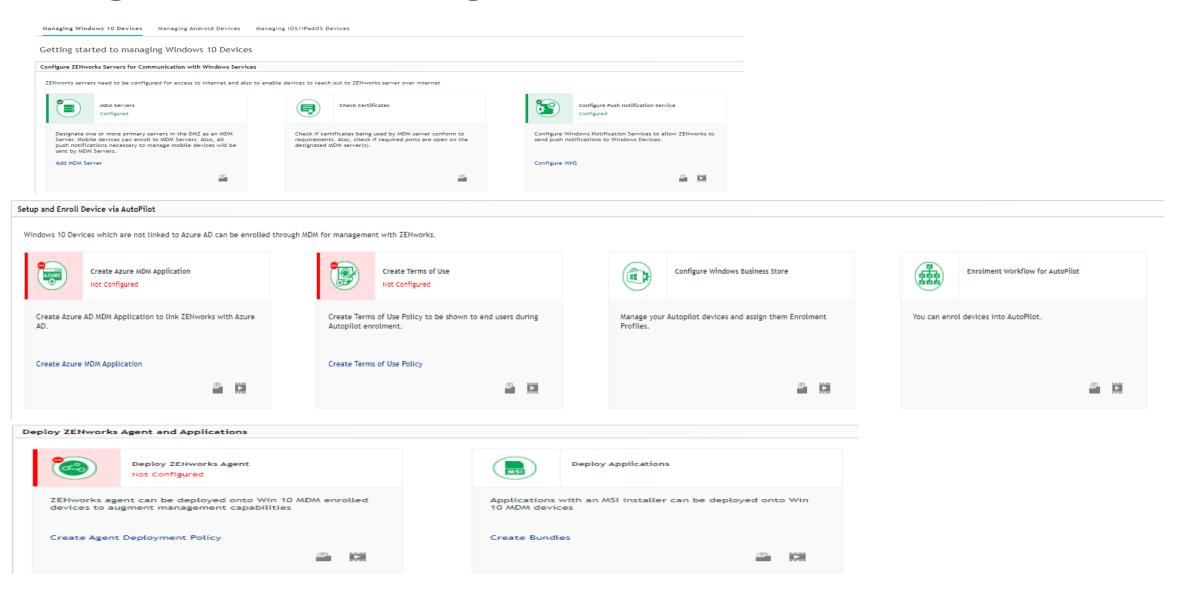
ZENworks & Modern Management of Windows 10 & 11

- Enrolment of Corporate Devices
 - Through deployment of Provisioning Package (for AD environments)
 - Through AutoPilot / OOBE Experience (for Azure AD environments)
- Support for following modes of enrolment
 - Devices managed through both ZEN Agent & Win 10/11 Modern Management
 - Device Managed through Win 10/11 Modern Management alone (without a need for 'Agent' on device)





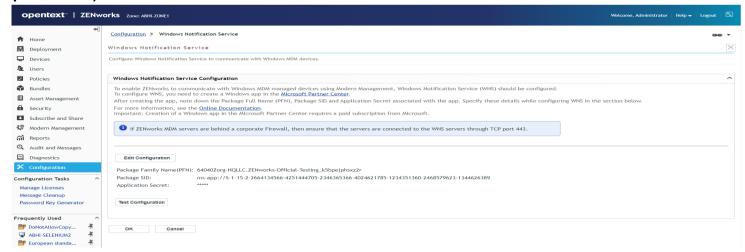
Getting Started to Manage Windows 10 & 11 Devices





Windows Provisioning Package Pre-requisites

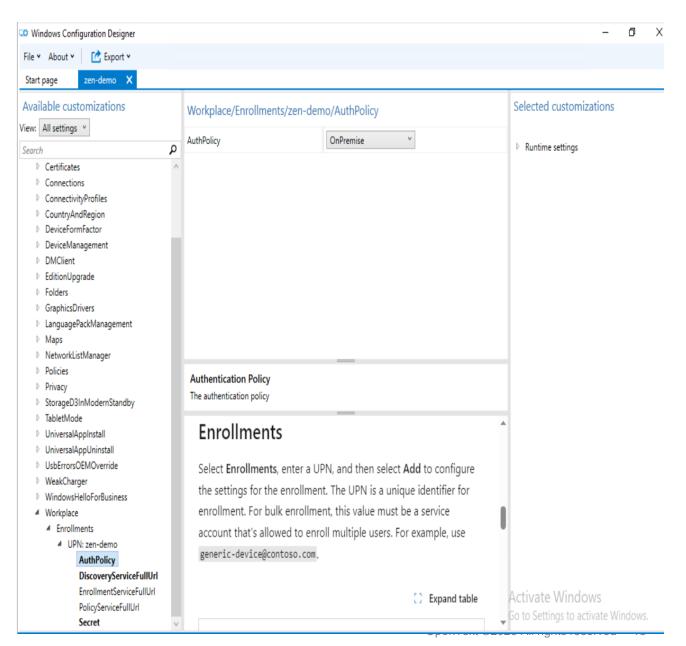
Requires Configuration of Windows Notification Service (WNS). Requires a MS developer Account (at present)



Doesn't require user to be there on device. Is independent of logged in user and its directory source

Windows Provisioning Package Pre-requisites

<u>Configuration</u> > Enrollment using Provisioning Package Enrollment using Provisioning Package Prerequisites to create a provisioning package to enroll Windows MDM devices. Prerequisites for Provisioning Package Creation The Provisioning Package is created using the Windows Configuration Designer tool on a Windows MDM device. The following prerequisites are require For information on enrolling Windows MDM devices to ZENworks, see the Online Documentation. Registration Key Create a new registration key or use an existing key to set rules for enrolling Windows MDM devices to ZENworks. Create or View Registration Key Authorization Key Create a new authorization key or use an existing key to validate the devices that will be registered to the zone. Create or View Authorization Key MDM Server Select a MDM Server to which the Windows MDM devices should be enrolled. /Devices/Servers/abhinandan-zen1 MDM Enrollment URL Copy the following URL, which is required while creating the provisioning package. https://abhinandan-zen1.epm.blr.novell.com:443/zenworks-win-mdm/registration/discoveryservice Zone Certificate Download the zone certificate to secure the communication between Windows MDM devices and ZENworks during enrollment. Download





Enrolment of Windows Devices as MDM Device

Deployment of Windows Provisioning Package

Devices can be enrolled just by executing Provisioning Package

- As part of Imaging
- Through ZENworks Agent (Install-ProvisioningPackage -PackagePath C:\<packagename>.ppkg —QuietInstall)
- Through Group Policies
- Manually

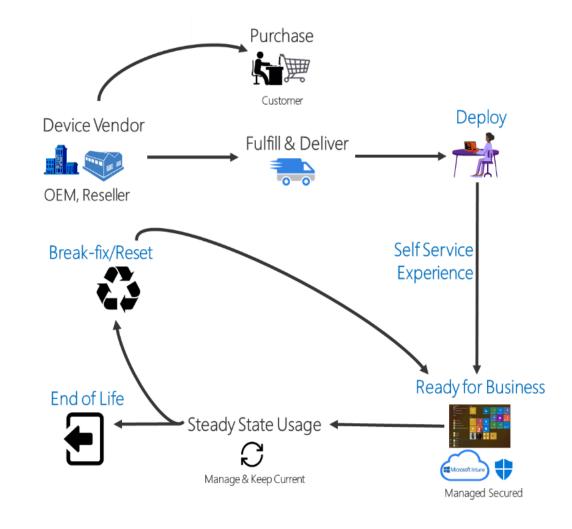
Suitable for scenarios, where bulk enrolment of devices is required

Suitable for scenarios, where enrolment into Windows MDM is required for specific capabilities available via MDM (say Windows Store Management)

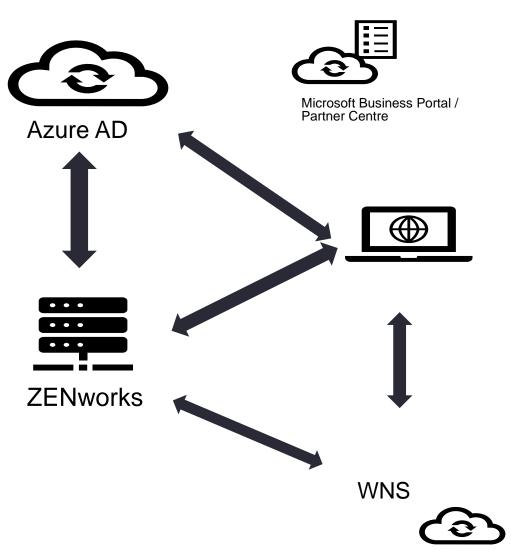


What is Windows Autopilot?

- Setup & pre-Configure new devices
- Allows reset, repurpose & recover devices
- Leverages OEM version of Windows without needing to re-image the device
- Allows Skipping of panes during Setup and restriction of Admin Account creation
- Once device is setup, it can be managed through Windows MDM



ZENworks & Windows Autopilot - Prequisites



Configuration

In ZENworks

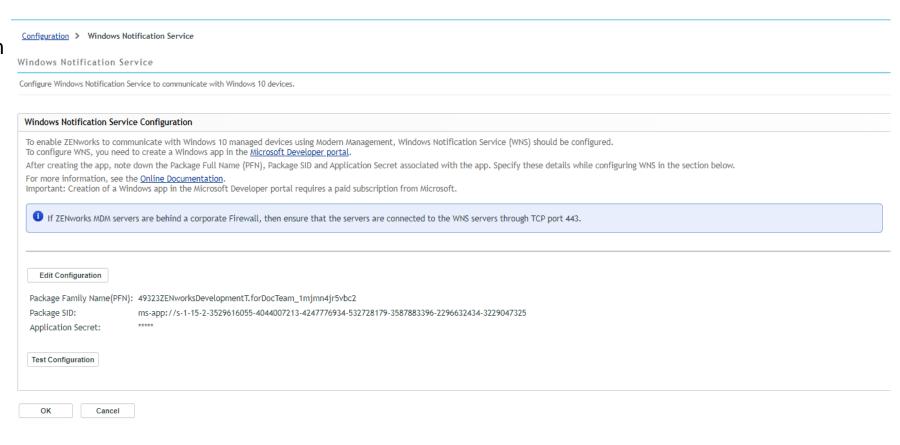
- Configure ZENworks to communicate with WNS
- Configure ZENworks to communicate with Azure AD using Azure AD MDM Application
- Create a Terms of Use Policy in ZENworks

Outside ZENworks

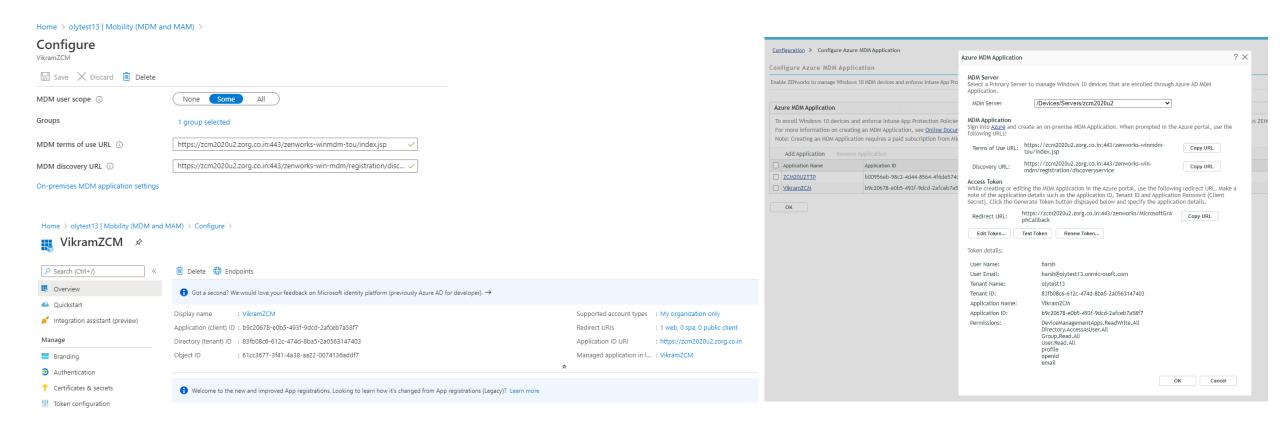
- Upload / Ask Vendor for Device List in MS Partner Centre
- Create an Auto Pilot Profile in MS Partner Centre
- Ensure ZENworks Root CA certificate is either installed or trusted by device
- Make sure User has licenses assigned in Azure and is part of user scope linked to Azure AD MDM Application
 - More details are <u>here</u> about Azure licensing



- Configure Windows Push Notification Service in **ZENworks**
- This requires a onetime creation of Microsoft **Developer Account**



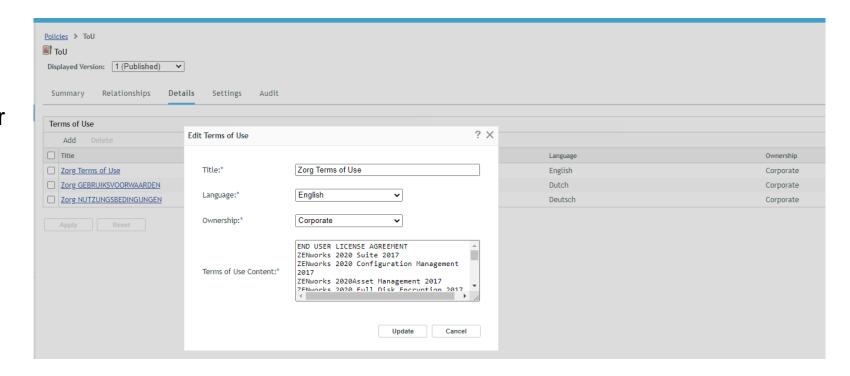




- Create a Mobility (MDM & MAM) application in Azure AD
- Configure ZENworks to communicate with Azure AD using Azure AD MDM **Application**

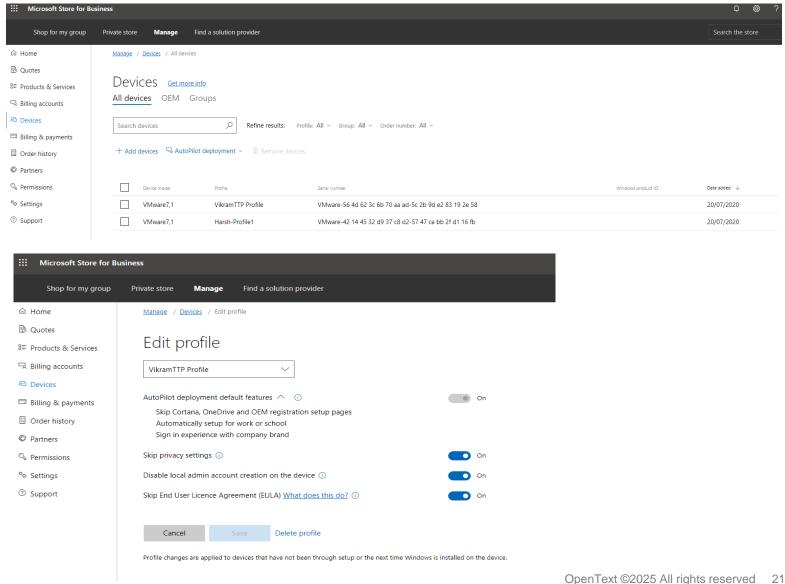


- Create a Terms of Use Policy in ZENworks
- Add Languages as per your end user needs

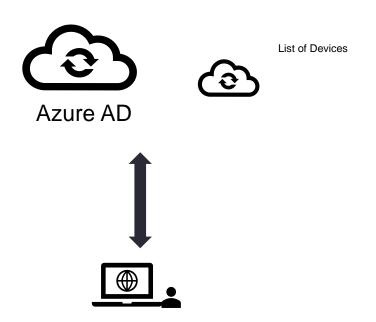


- Provision Purchased **Devices in Microsoft Business Store**
 - Ask OEM Vendor / Reseller to upload details
 - If not purchased, device details can be extracted using **PowerShell** script and uploaded

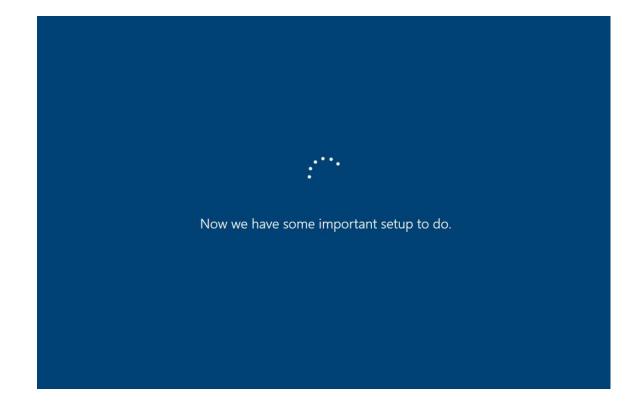
Create an Auto Pilot Profile and assign it to purchased devices



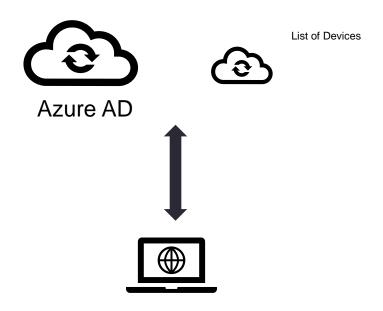




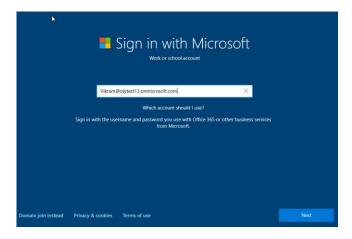
1. While setting up, Windows queries and identifies that device is registered with Autopilot

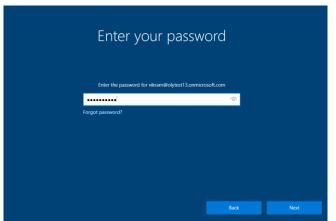




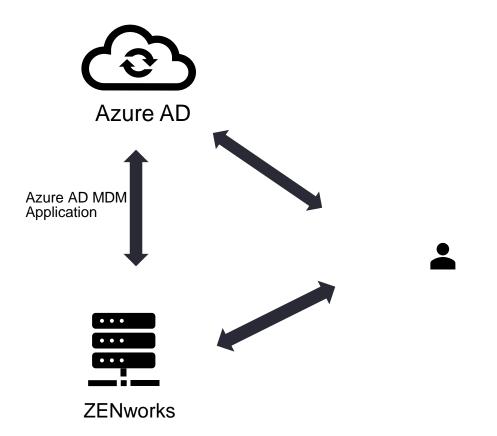


2. User logs in with Azure AD creds and is Authenticated





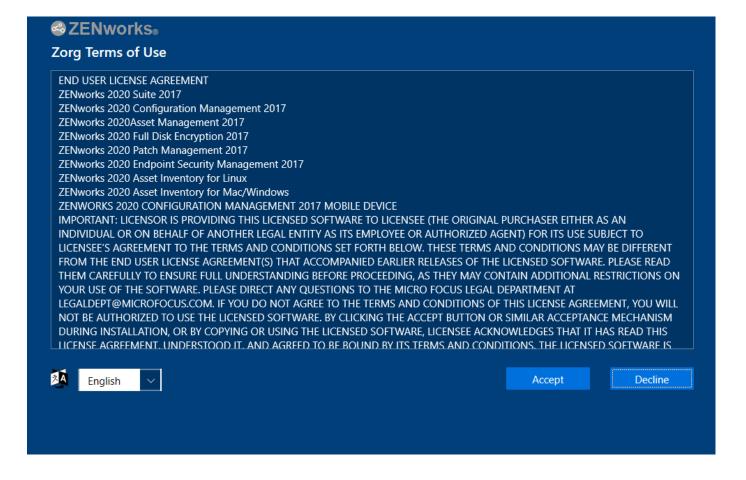


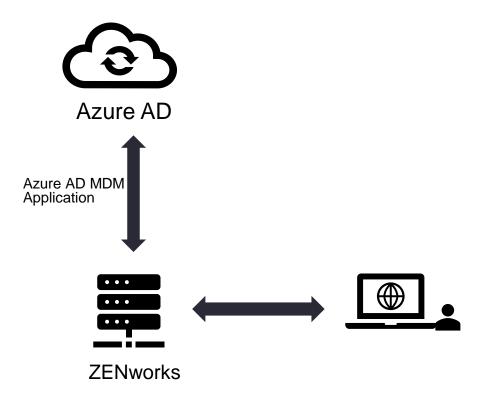


3. Based on user, appropriate MDM App is looked up in Azure and corresponding ZENworks URL's are passed to device

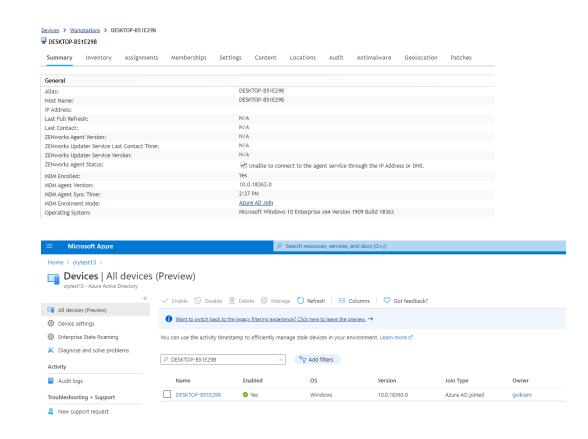


4. Device contacts ZENworks and is presented with Terms of Use

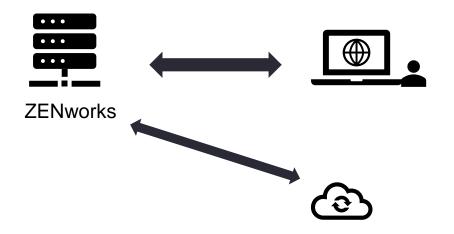




- 5. ZENworks validates details with Azure and enrols Device
- 6. ZENworks sets Device Status in Azure



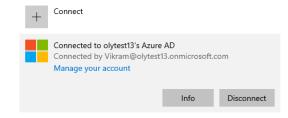




7. Device gets Setup and sync is initiated with **ZENworks**

Access work or school

Get access to resources like email, apps, and the network. Connecting means your work or school might control some things on this device, such as which settings you can change. For specific info about this, ask



₼ Managed by ZENworks

Connecting to work or school allows your organization to control some things on this device, such as settings and applications.

Areas managed by ZENworks

ZENworks manages the following areas and settings. Settings marked as Dynamic might change depending on device location, time, and network configuration.

More information about Dynamic Management

Connection info

Management Server Address: https://zcm2020u2.zorg.co.in/endpoint/windowsmdm/sync Exchange ID:

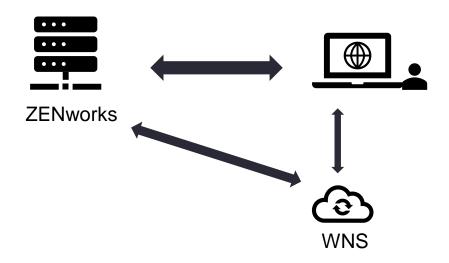
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Device sync status

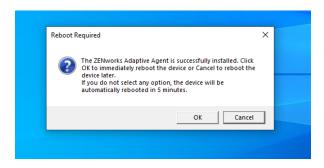
Syncing keeps security policies, network profiles, and managed applications up to date. Last Attempted Sync:

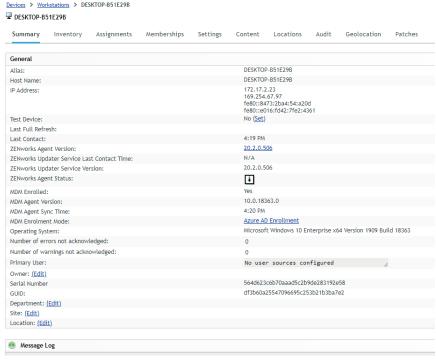


ZENworks & Windows Autopilot – Deployment of ZENworks Agent (Optional)



8. If assigned, on sync, ZENworks Agent gets installed on device along with any other provisioned application







Modern Management Capabilities

- Basic Management Device Refresh, Un-enrolment, Deletion
- Deployment of ZENworks Agent through Win 10/11 Modern Management
- Deployment of MSI Applications to devices (Experimental)
- Deployment of any CSP (Experimental)
- **ZENworks CSP Repository**



Thank you





