

Microsoft Intune & Entra ID Device Enrollment Lab

Objective:

To successfully enroll and manage both Windows and iOS devices using Microsoft Intune and Entra ID.

Tasks Done:

- Windows & iOS device enrollment
- Apple MDM Push Certificate setup
- Device restriction & compliance configuration
- Group creation with dynamic rules
- Device sync validation

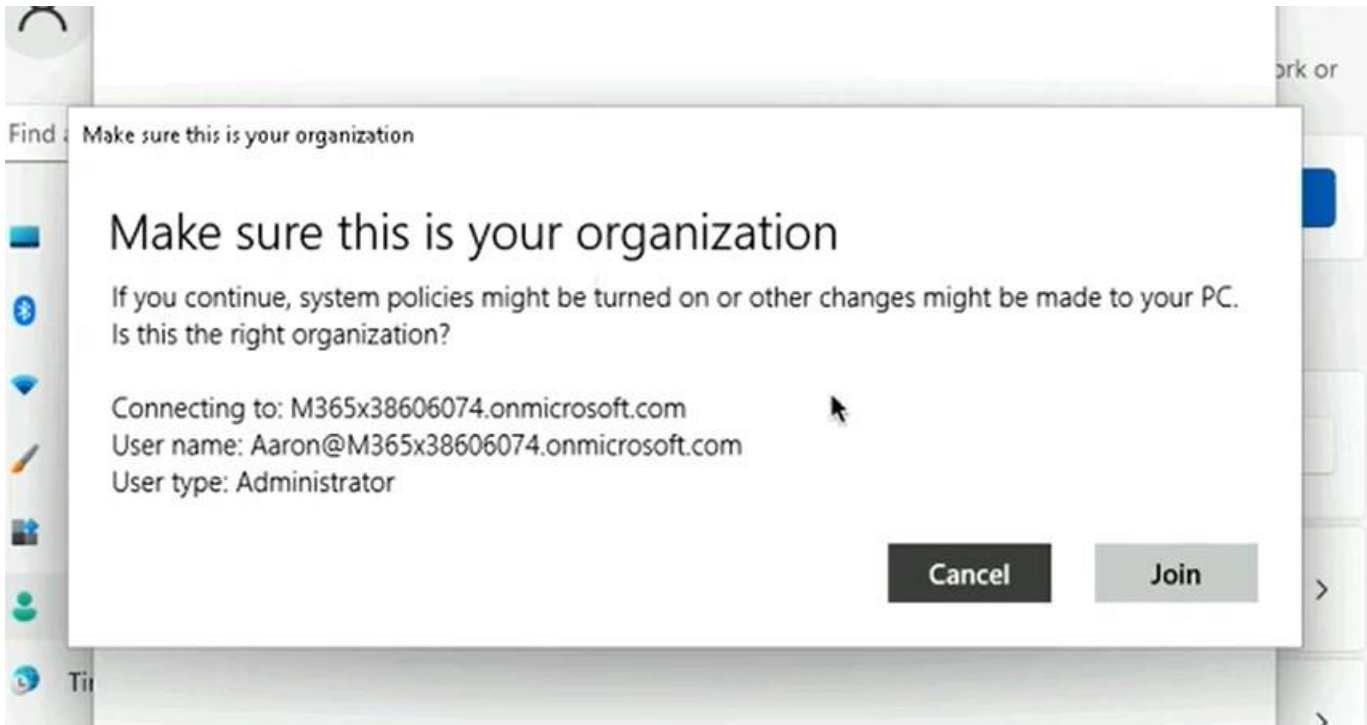
- App deployment via intune

Tools Used:

Microsoft Intune Admin Center, Microsoft Entra Admin Center, Apple Push Certificates Portal, Windows Settings

Outcome:

All devices were successfully enrolled and policies were applied. Compliance and sync statuses were verified.



Confirmation prompt when joining the Windows device to Microsoft Entra ID using a user with Administrator role.

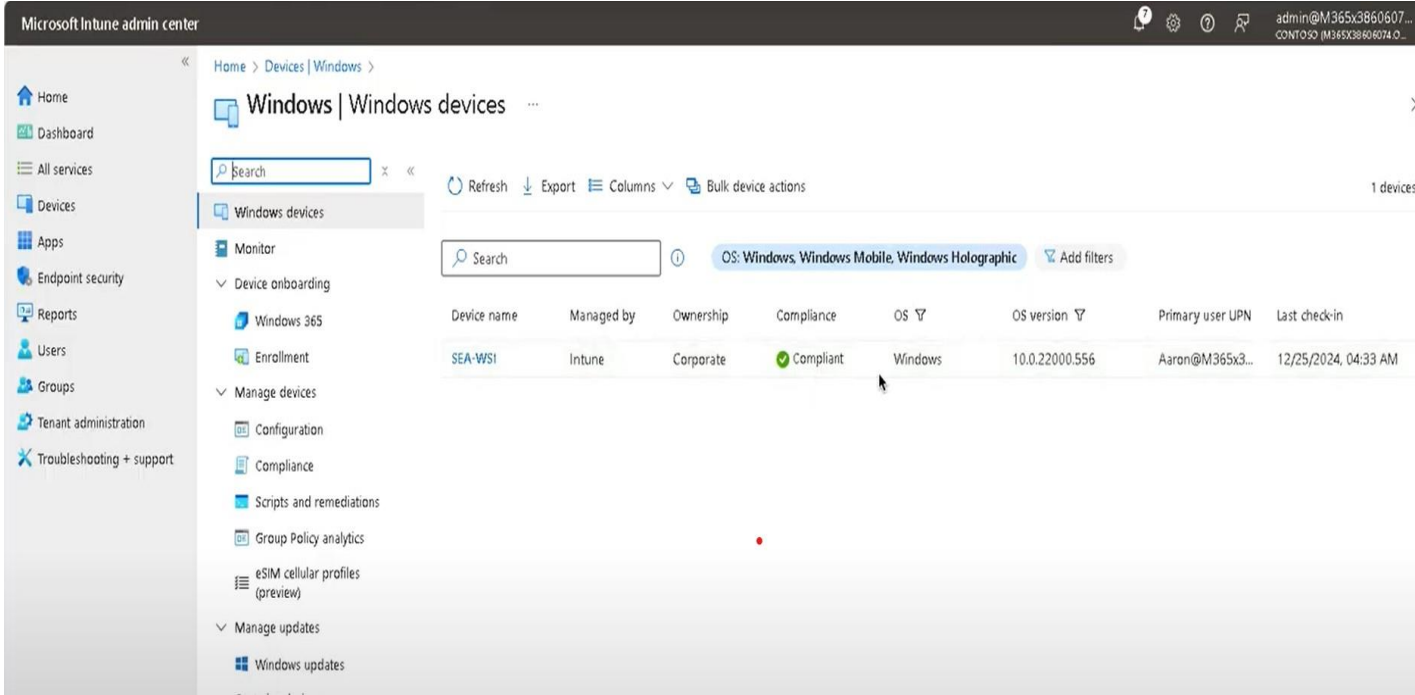
Issued To	Issued By	Expiration Date	Intended Purposes	Friendly Name	Status	Certificate Term...
3879d01b-6fe2-4804-8f2c-3aa7...	MS-Organization-Access	12/25/2034	Client Authentication	<None>		
3879d01b-6fe2-4804-8f2c-3aa7...	MS-Organization-P2P-Access [20...	12/26/2024	Server Authenticati...	<None>		
c7588d2e-6f51-4d42-841c-3ec6...	Microsoft Intune MDM Device CA	12/22/2025	Client Authentication	<None>		

Device certificates showing enrollment to Microsoft Intune MDM and organization authentication certificates.

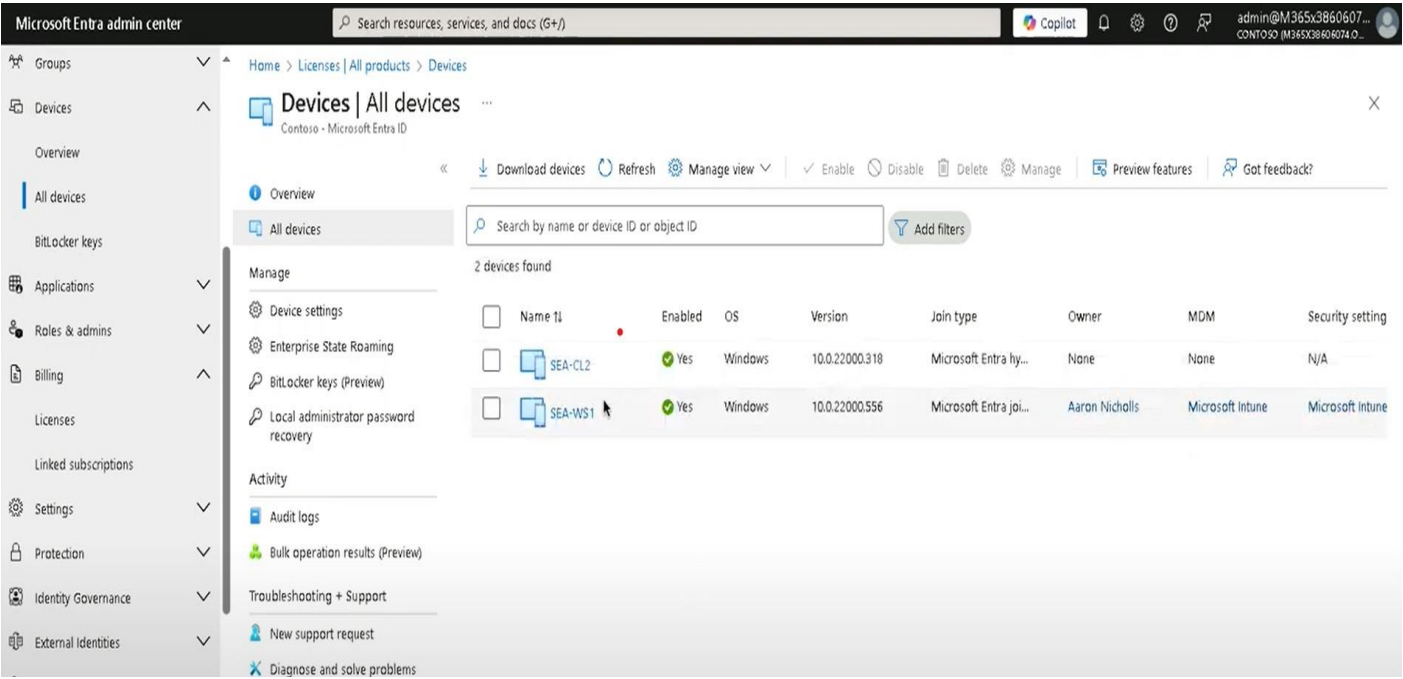
```
Tenant Details
+-----+
|
+-----+

TenantName : Contoso
TenantId : 84aec390-ce70-4af5-87e4-959b0880a7b9
AuthCodeUrl : https://login.microsoftonline.com/84aec390-ce70-4af5-87e4-959b0880a7b9/oauth2/authorize
AccessTokenUrl : https://login.microsoftonline.com/84aec390-ce70-4af5-87e4-959b0880a7b9/oauth2/token
MdmUrl : https://enrollment.manage.microsoft.com/enrollmentserver/discovery.svc
MdmTouUrl : https://portal.manage.microsoft.com/TermsOfUse.aspx
MdmComplianceUrl : https://portal.manage.microsoft.com/?portalAction=Compliance
SettingsUrl :
JoinSrvVersion : 2.0
JoinSrvUrl : https://enterpriseregistration.windows.net/EnrollmentServer/device/
JoinSrvId : urn:ms-drs:enterpriseregistration.windows.net
KeySrvVersion : 1.0
KeySrvUrl : https://enterpriseregistration.windows.net/EnrollmentServer/key/
KeySrvId : urn:ms-drs:enterpriseregistration.windows.net
WebAuthNSrvVersion : 1.0
WebAuthNSrvUrl : https://enterpriseregistration.windows.net/webauthn/84aec390-ce70-4af5-87e4-959b0880a7b9/
WebAuthNSrvId : urn:ms-drs:enterpriseregistration.windows.net
DeviceManagementSrvVer : 1.0
DeviceManagementSrvUrl : https://enterpriseregistration.windows.net/manage/84aec390-ce70-4af5-87e4-959b0880a7b9/
```

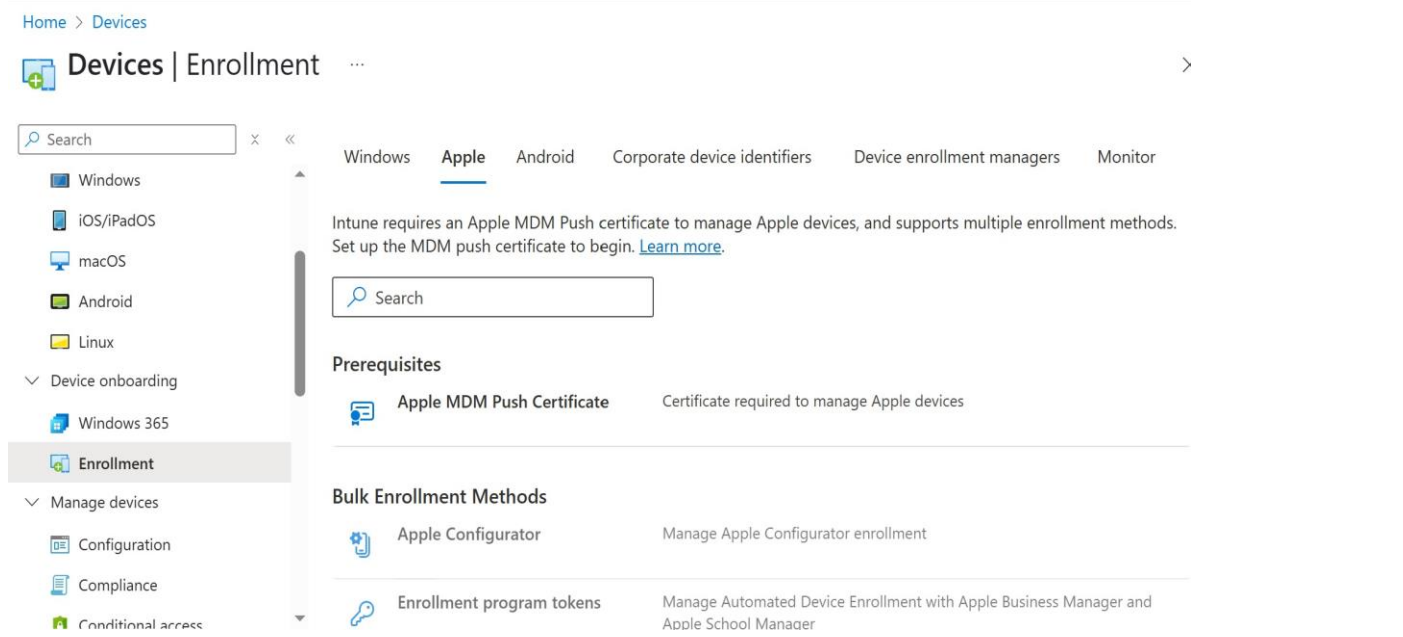
PowerShell output displaying tenant details and service endpoints related to device registration and MDM.



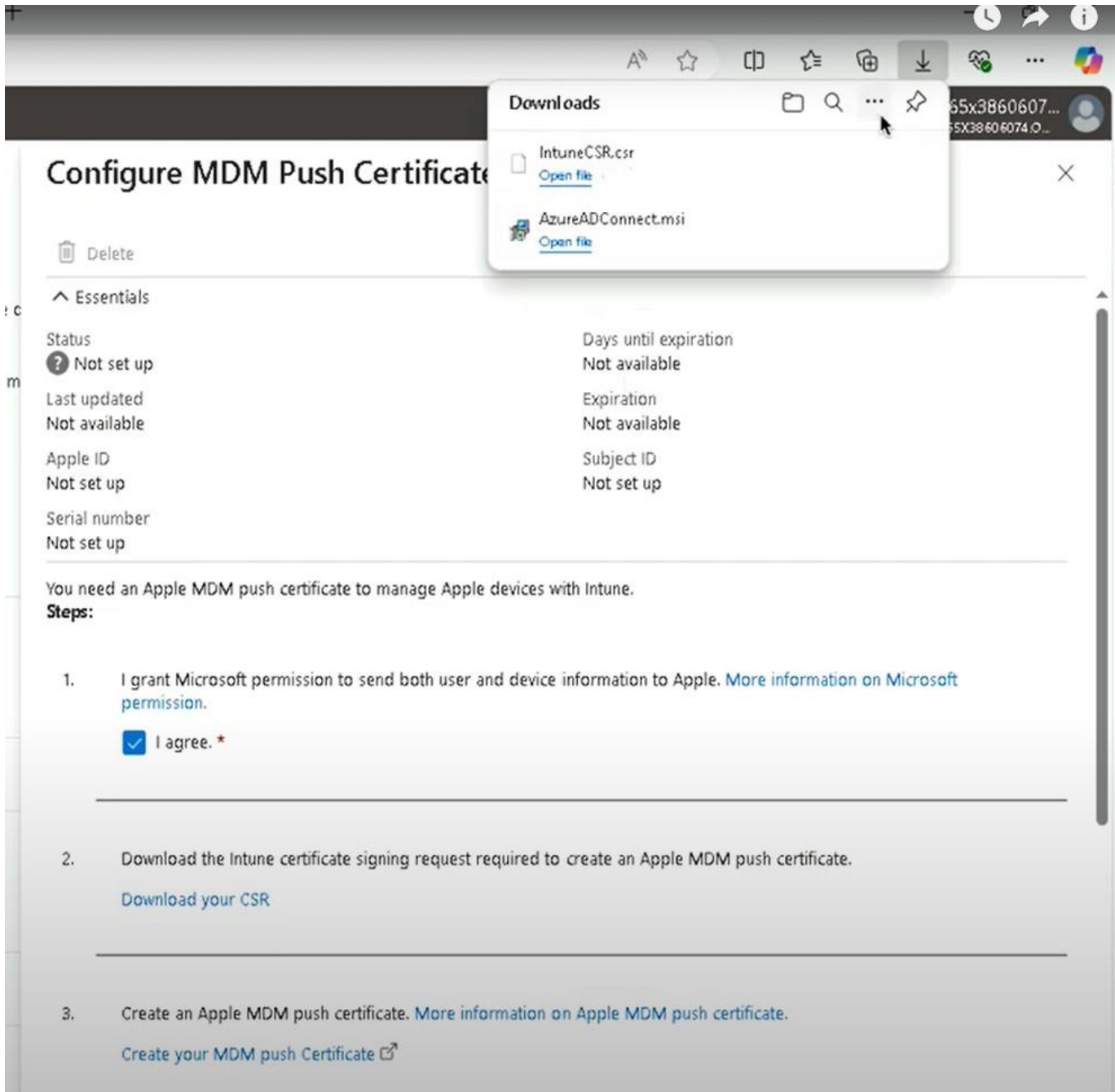
Microsoft Intune admin center showing a compliant Windows device successfully enrolled and managed.



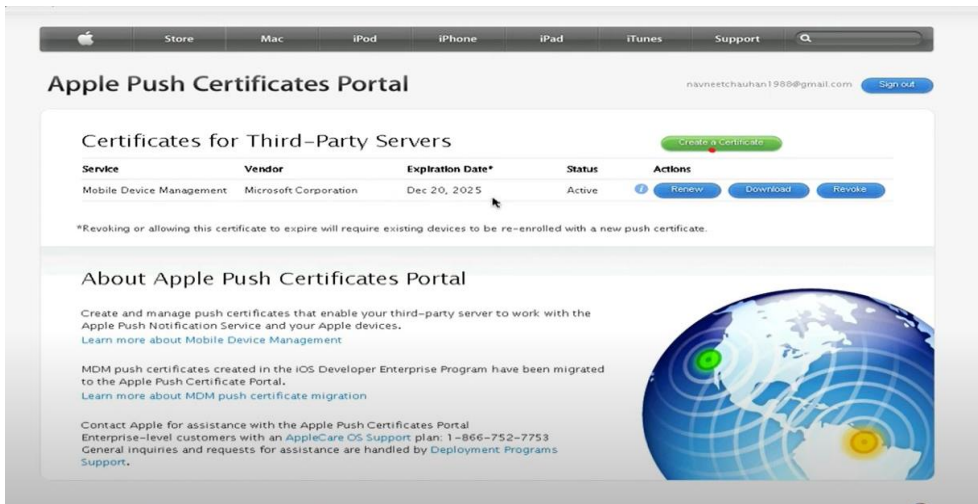
Microsoft Entra admin center listing enrolled devices, including the device SEA-WS1 joined via Entra.



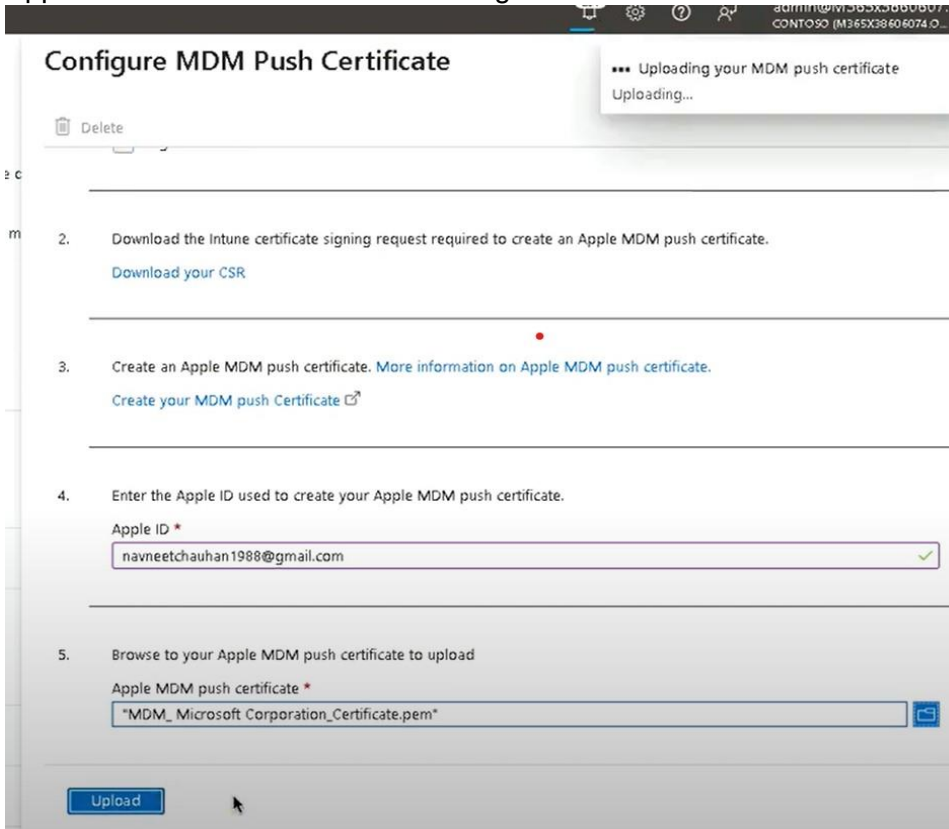
Apple device enrollment options in Intune, showing prerequisites and bulk enrollment methods.



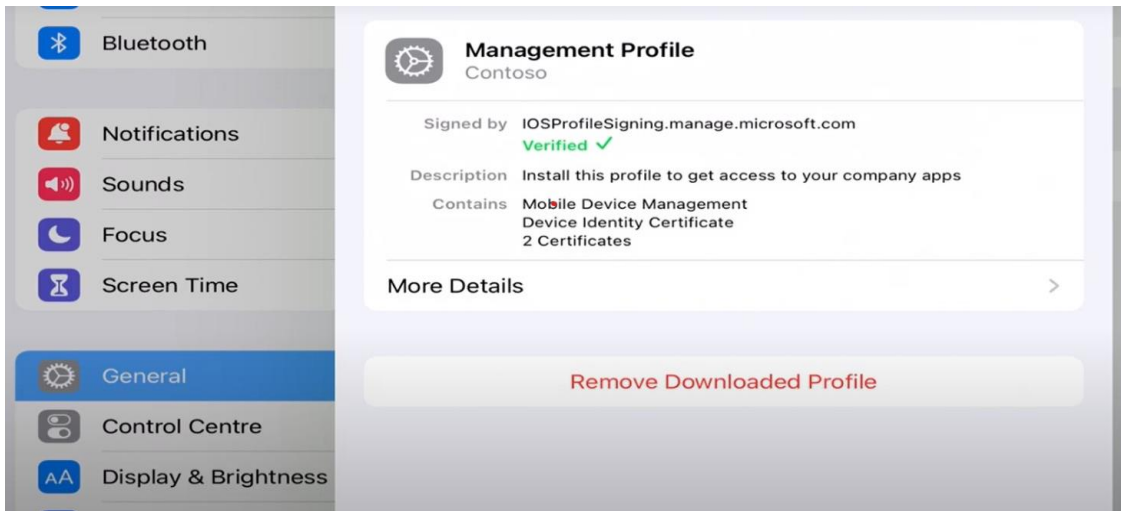
Downloading the certificate signing request (CSR) needed to create the Apple MDM Push Certificate.



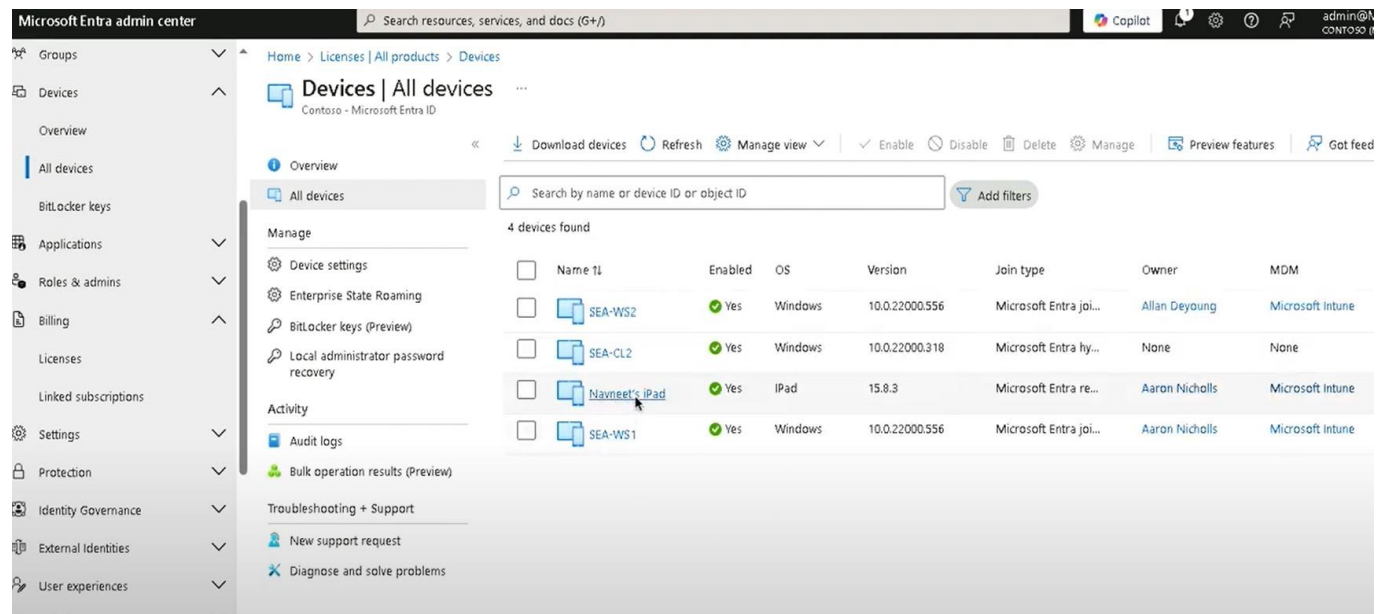
Apple Push Certificates Portal showing an active MDM certificate issued to Microsoft Corporation.



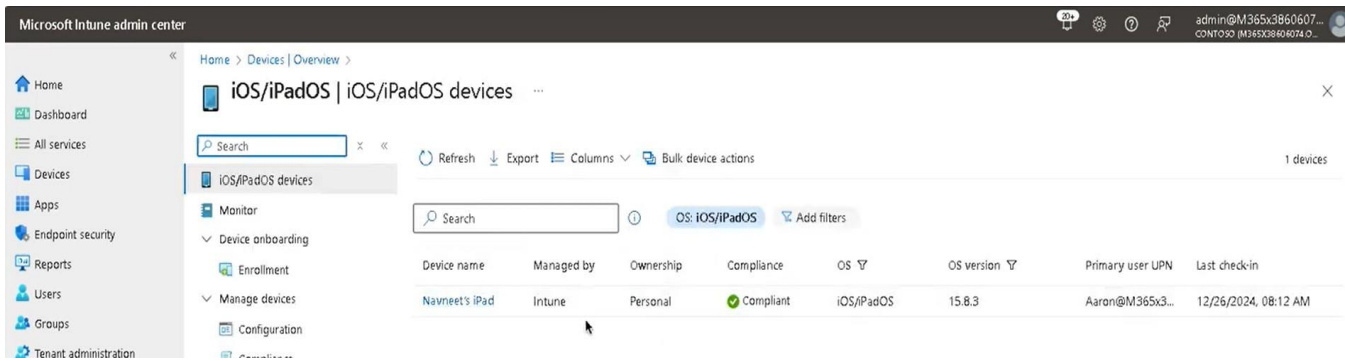
Uploading the Apple MDM Push Certificate in Intune after generation from the Apple portal.



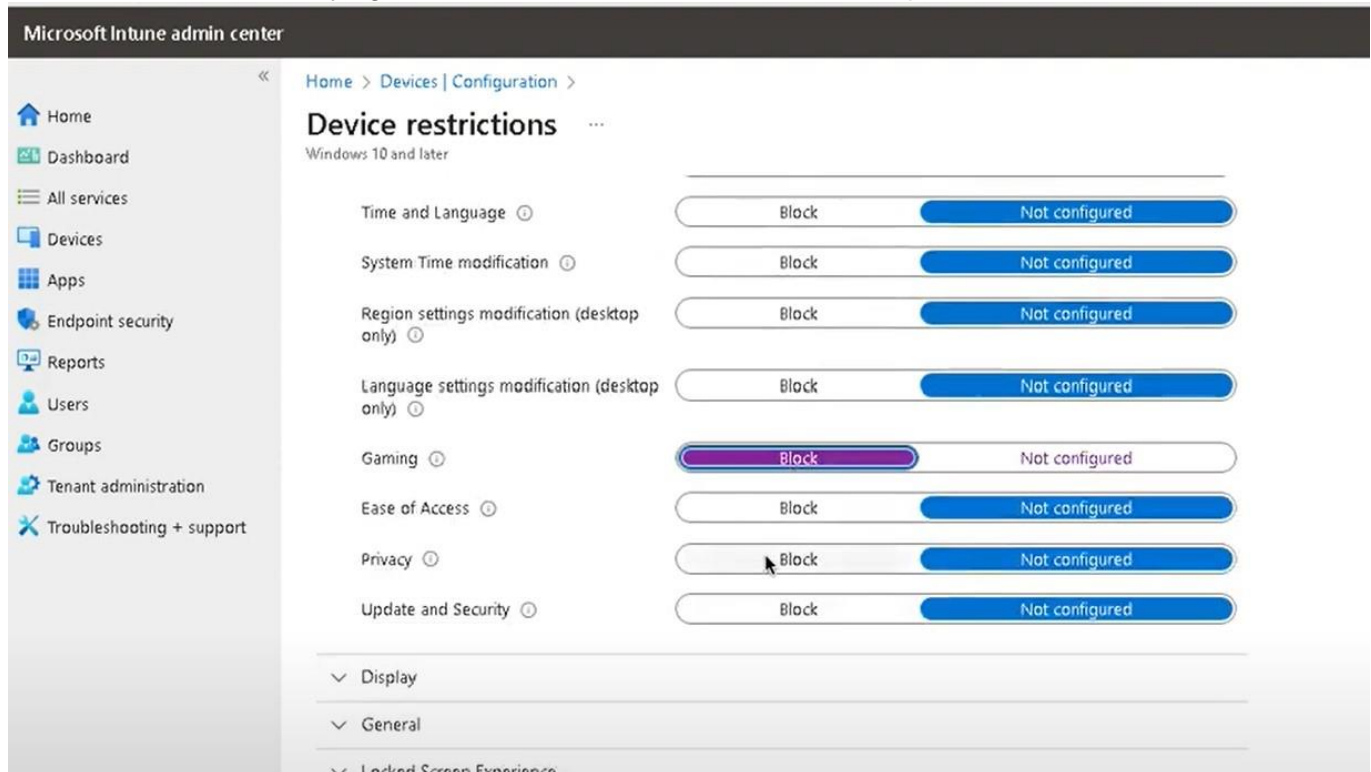
iOS management profile installed on the iPad device confirming MDM enrollment and certificate presence.



Microsoft Entra admin center showing successful iOS device registration (Navneet's iPad).

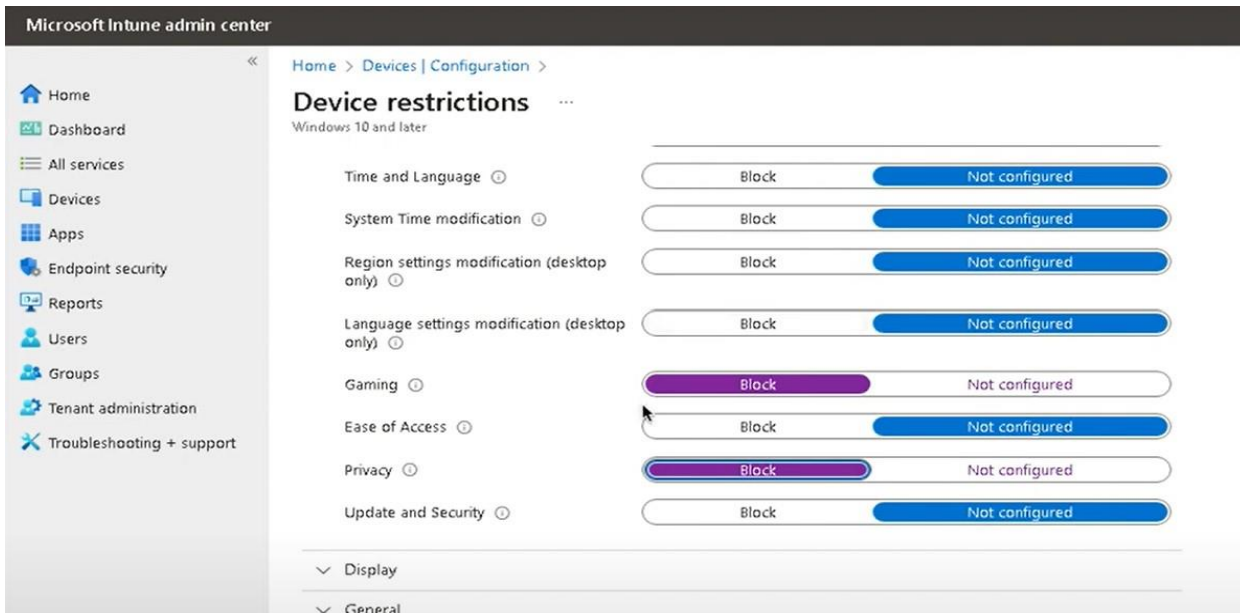


Intune admin center verifying that the enrolled iPad is marked as compliant.

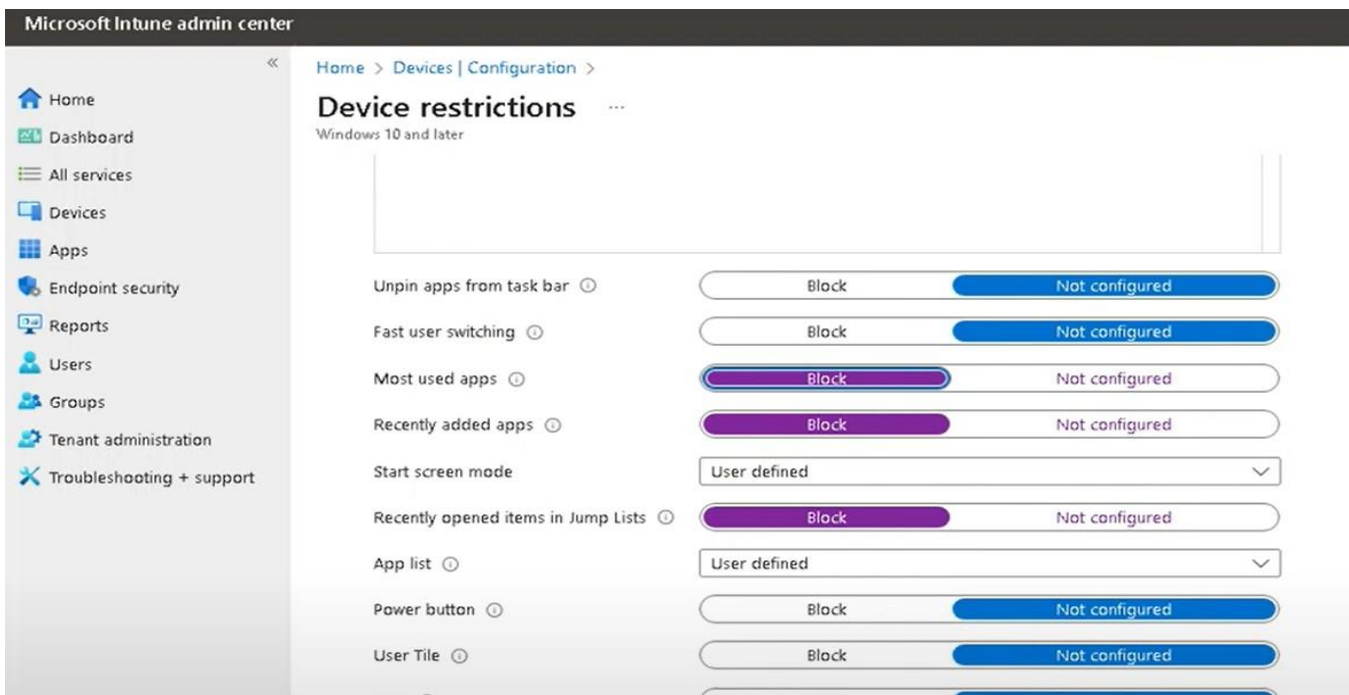


Creating a configuration profile in Intune to apply policies to Windows devices.

Applying device restrictions in Intune to block system and user settings modifications.



Further device restriction settings applied to user environment (apps, start screen, etc.).



Excluding specific files and folders from Microsoft Defender Antivirus scans.

[Home](#) > [Devices | Configuration](#) >

Device restrictions

Windows 10 and later

Actions on detected malware threats ⓘ Enable Not configured

Low severity Not configured ▼

Moderate severity Not configured ▼

High severity Not configured ▼

Severe severity Not configured ▼

Microsoft Defender Antivirus Exclusions

Files and folders to exclude from scans and real-time protection

Import

Export

Files and folders

C:\DevProjects



Examples: c:\Path, %ProgramFiles%\Path\Filename.exe

File extensions to exclude from scans and real-time protection

Import

Export

File extensions

Examples: jpeg, txt

Processes to exclude from scans and real-time protection

Import

Export

Processes

DevBuild.exe



Previous

Next

Creating a new security group for developer Windows devices.

Microsoft Intune admin center

Home > Groups | Overview >

New Group

Got feedback?

Group type * ⓘ
Security

Group name * ⓘ
Contoso Developer devices

Group description ⓘ
All Windows devices in Contoso Developer department

Microsoft Entra roles can be assigned to the group ⓘ
Yes ☒ No

Membership type * ⓘ
Assigned

Owners
No owners selected

Members
No members selected

Applying dynamic membership rules to group based on OS type (Windows).

Microsoft Intune admin center

Home > Groups | All groups > New Group >

Dynamic membership rules

Save Discard Got feedback?

Configure Rules Validate Rules

You can use the rule builder or rule syntax text box to create or edit a dynamic membership rule. [Learn more](#)

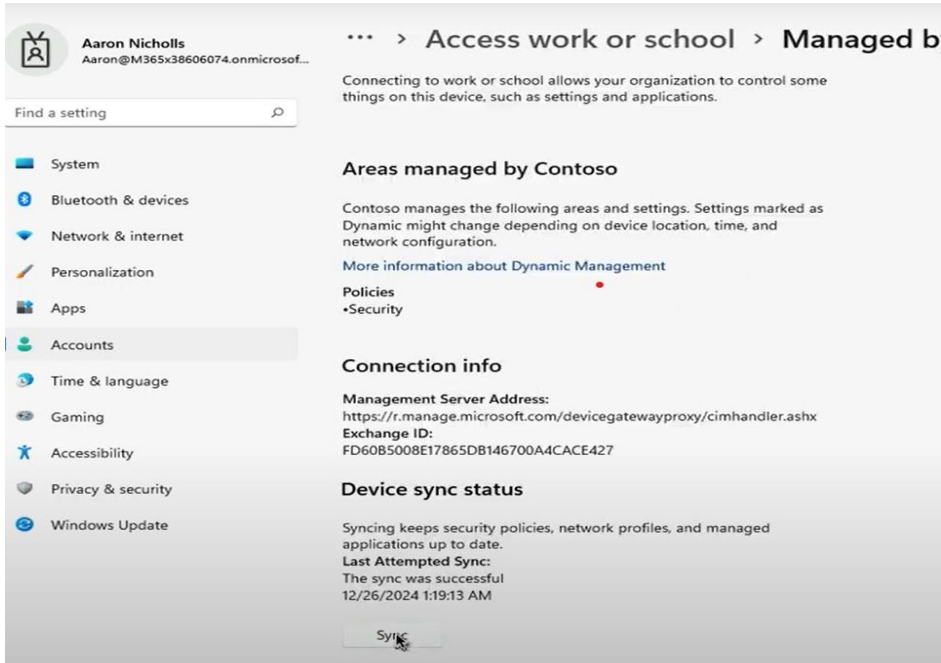
And/Or	Property	Operator	Value
And	<Choose a Property>	<Choose an Operator>	Add a value

+ Add expression

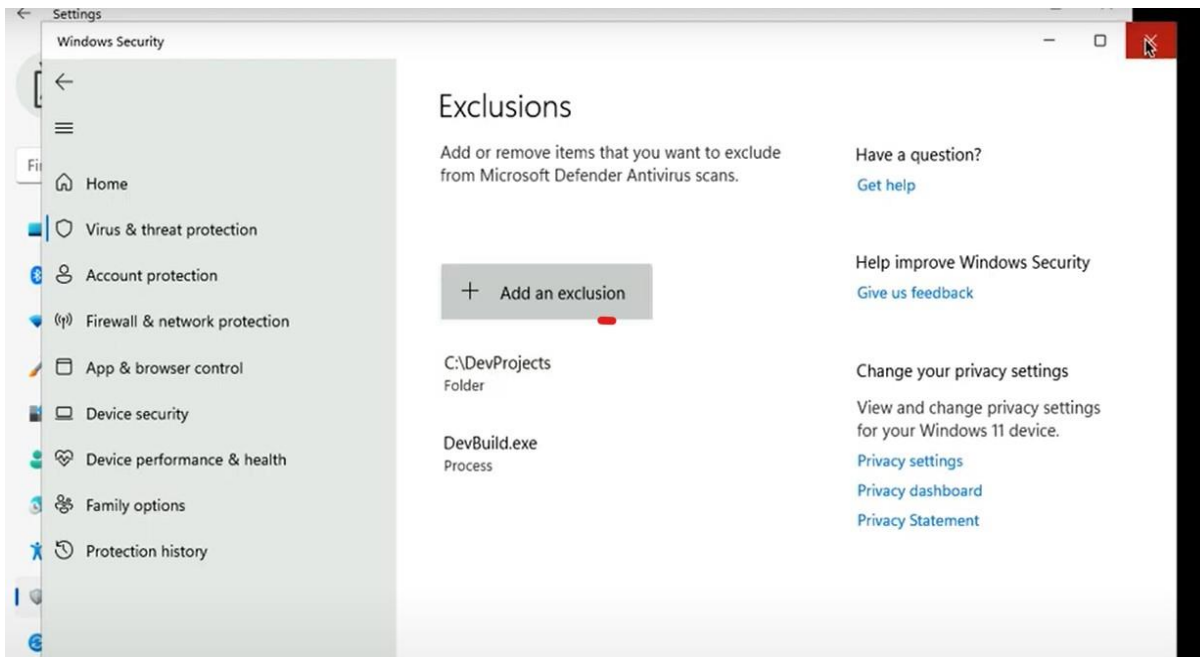
Some items could not be displayed in the rule builder. [Learn more](#)

Rule syntax
(device.deviceOSType ~contains "Windows")

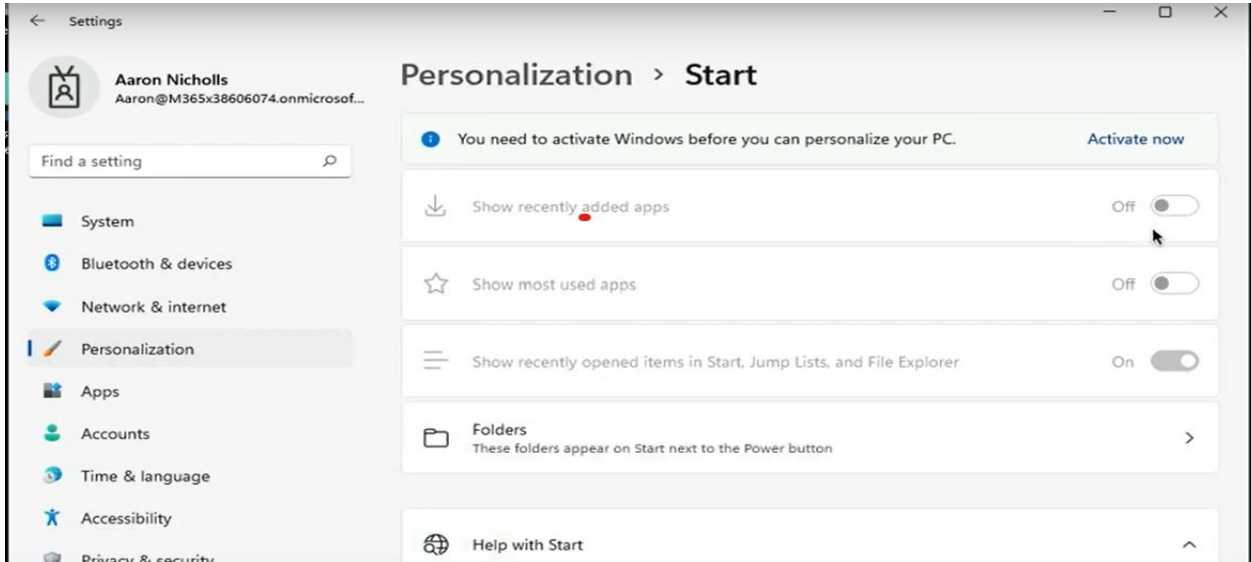
Verifying device sync and connection info from the enrolled Windows device.



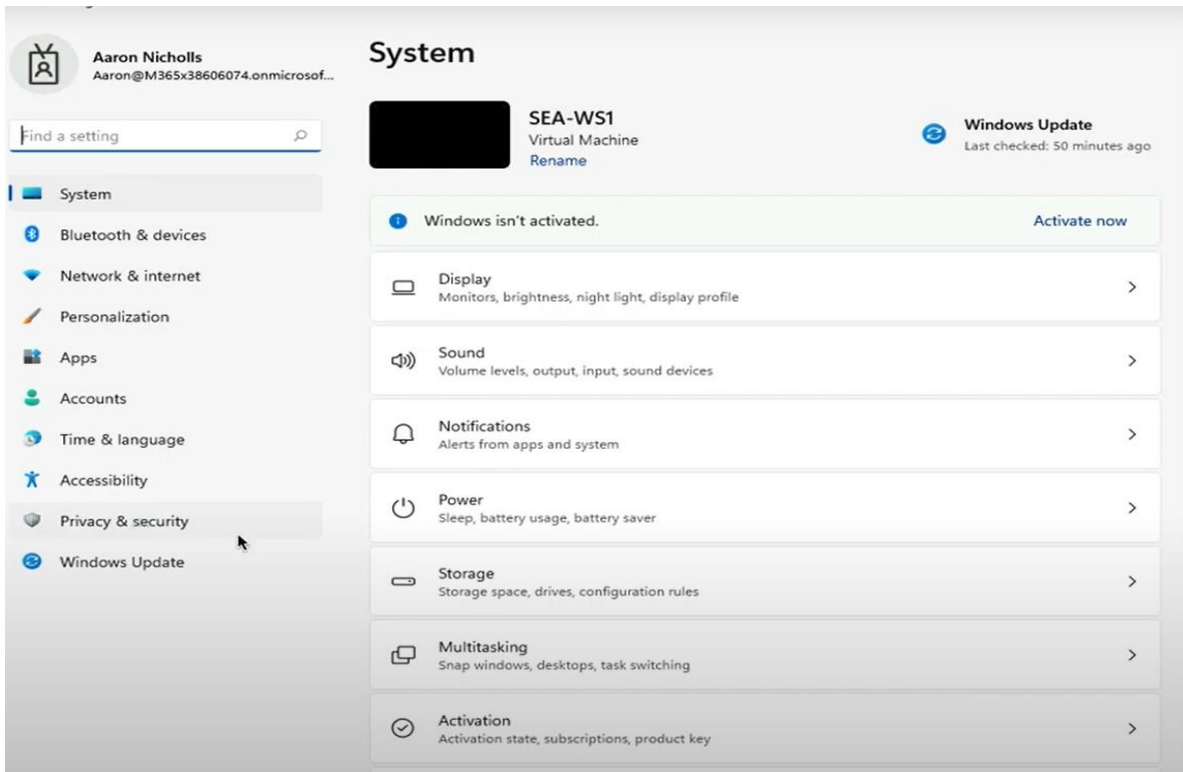
Manually adding antivirus exclusions from Windows Security settings.



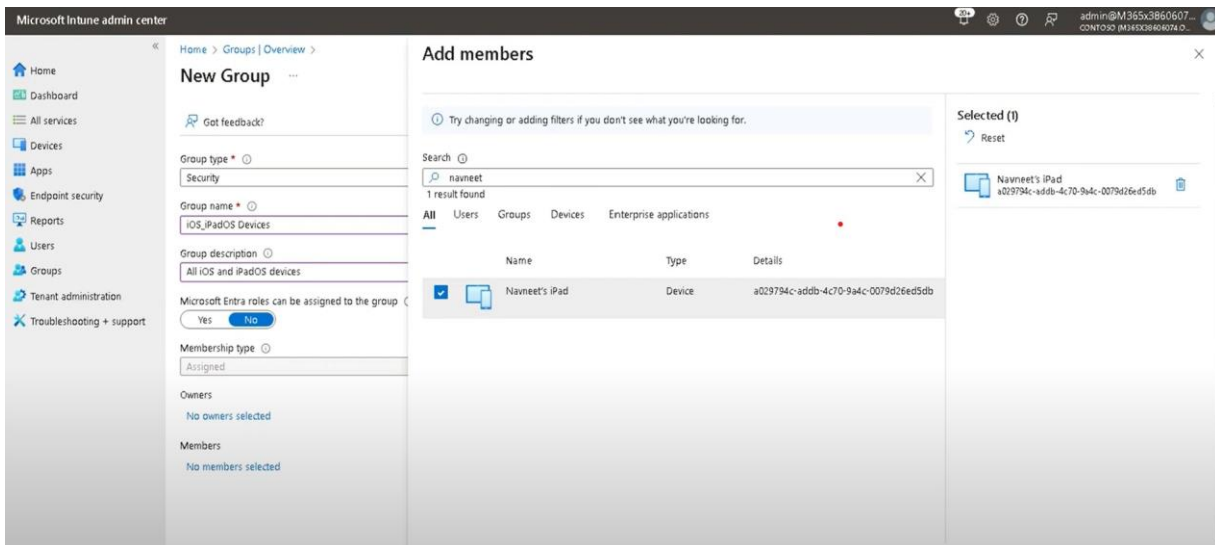
Personalization settings showing app usage options turned off.



Windows system settings of the enrolled virtual machine.



Adding Navneet's iPad to a new Intune group for iOS/iPadOS devices.



Creating a Wi-Fi configuration profile for iOS/iPadOS devices.

Microsoft Intune admin center

Home > Devices | Configuration >

Wi-Fi

iOS/iPadOS

1 Basics 2 Configuration settings 3 Assignments 4 Review + create

Name * iOS/iPadOS Wi-Fi Policy ✓

Description Wi-Fi settings for iOS/iPadOS Devices.

Platform iOS/iPadOS

Profile type Wi-Fi

Defining Wi-Fi settings such as SSID, security type, and password for mobile devices.

Microsoft Intune admin center

Home > Devices | Configuration >

Wi-Fi

iOS/iPadOS

✓ Basics 2 Configuration settings 3 Assignments 4 Review + create

Wi-Fi type * Basic ✓

Network name * Contoso Wi-Fi ✓

SSID * MainOffice ✓

Connect automatically ☒ Enable ☐ Disable

Hidden network ☐ Enable ☒ Disable

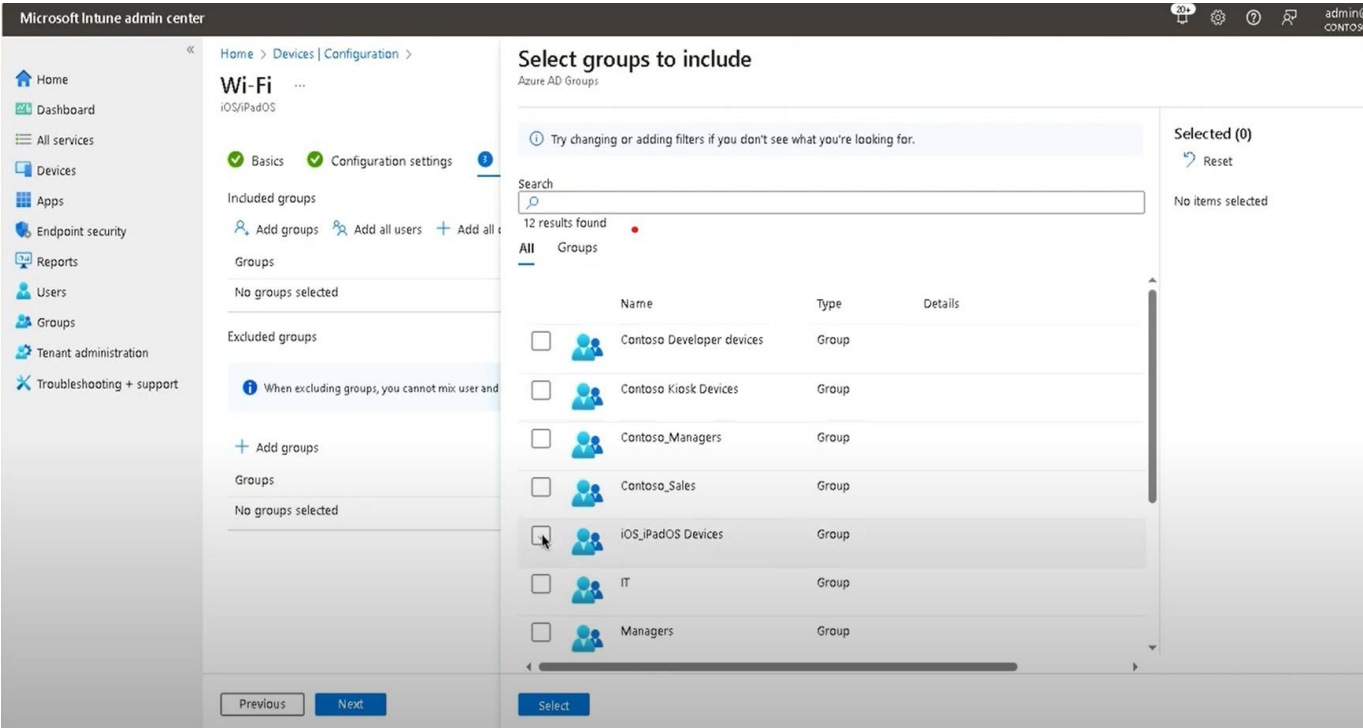
Security type * WPA/WPA2-Personal ✓

Pre-shared key ContosoWiFi123 ✓

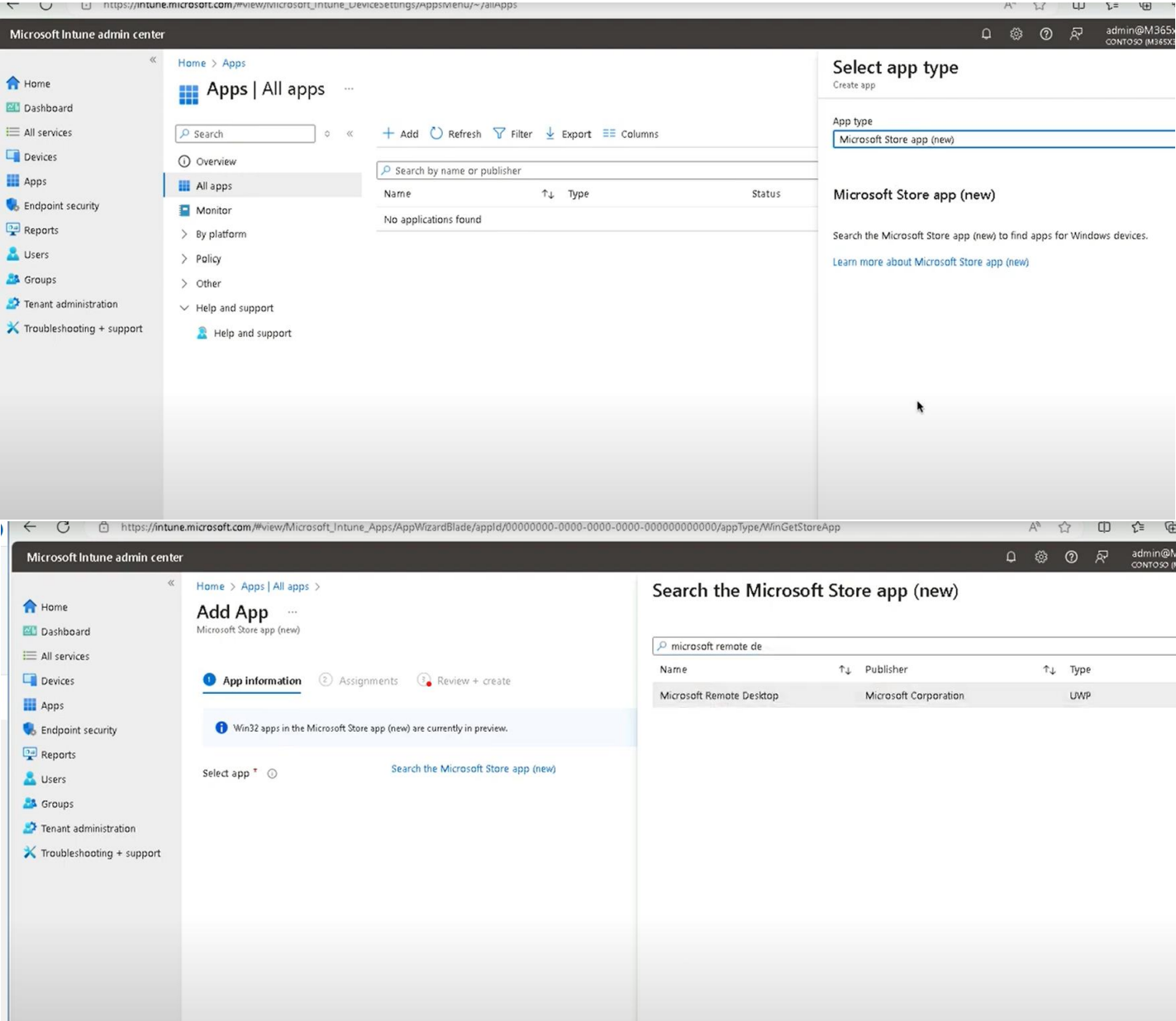
Proxy settings None ✓

Disable MAC address randomization ☐ Not configured ✓

Assigning the Wi-Fi profile to a specific device group (iOS/iPadOS Devices).



Additional configuration screens for validating profile creation and assignments.



Microsoft Intune admin center

Home

Dashboard

All services

Devices

Apps

Endpoint security

Reports

Users

Groups

Tenant administration

Troubleshooting + support

Home > Apps | All apps >

Add App

Microsoft Store app (new)

Description *

Use the Microsoft Remote Desktop app to connect to a remote PC or virtual apps and desktops made available by your admin. The app helps you be

Publisher *

Microsoft Corporation

Package Identifier

9WZDNCRFJ3PS

Installer Type

UWP

Install behavior

System User

Category

Business

Show this as a featured app in the Company Portal

Yes No

Information URL

Enter a valid url

Privacy URL

https://go.microsoft.com/fwlink/?Linkid=521839

Developer

Owner

Notes

Logo

Select image

Microsoft Intune admin center

Home

Dashboard

All services

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Users

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Tenant administration

Troubleshooting + support

Home > Apps > All apps > Microsoft Remote Desktop

Edit application

Microsoft Store app (new)

Assignments

Review + save

Required

Group mode

Group

No assignments

+ Add group + Add all users + Add all devices

Available for enrolled devices

Group mode

Group

No assignments

+ Add group + Add all users + Add all devices

Uninstall

Group mode

Group

No assignments

+ Add group + Add all users + Add all devices

Review + save

Cancel

Select groups

Microsoft Entra groups

Try changing or adding filters if you don't see what you're looking for.

Search

research

1 result found

All Groups

	Name	Type	Details
<input checked="" type="checkbox"/>	Research	Group	

Select