

# DigiCert® PKI Platform

Integrate Microsoft Intune MDM Solution

December 06, 2021



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## Introduction

Microsoft Intune provides mobile device management and mobile application capabilities that let you determine the data different users in your organization can access. The integrated data protection and compliance capabilities define what users can do with the data within Microsoft Office and other mobile apps.

Integrating Microsoft Intune with DigiCert PKI Platform allows you to generate digital certificates that provide the trust without any usernames, passwords, or additional hardware tokens. In addition, DigiCert PKI Platform provides quick deployment and easy management and offers industry leading security that is unmatched by in-house PKI solutions.

This document helps you integrate Microsoft Intune with DigiCert PKI Platform 8.20 to issue end-entity certificates to mobile devices for client authentication.

## Pre-requisites

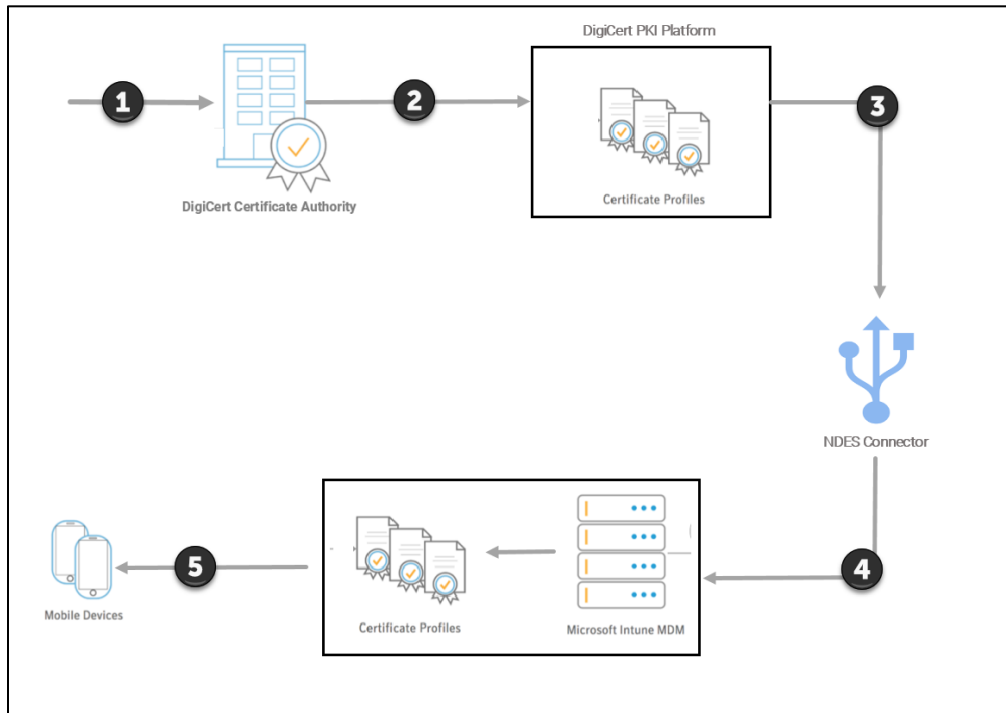
Before you start integrating Microsoft Intune with DigiCert PKI Platform, be sure to:

- Create a DigiCert PKI Platform account.
- Obtain a DigiCert Managed PKI Administrator certificate and verify that you can log in to <https://pki-manager.symauth.com/pki-manager>.
- Create a Microsoft Intune account. For information on creating a Microsoft Intune account, see <https://docs.microsoft.com/en-us/intune/account-sign-up>.
  - Once the Intune account is created, login to <https://endpoint.microsoft.com>.
  - If the account is new, please setup the MDM authority as Intune.
- Meet the system requirements.
- Please make sure that the BCT name is bound to a CA loaded onto your account.

## Integrate Intune MDM Solution using PKI Web Services

### Integration Overview

The following illustration explains how Microsoft Intune integrates with DigiCert PKI Platform.



1. Generate a DigiCert RA Certificate from the DigiCert Certificate Authority to configure Intune.
3. Install and Configure the NDES Connector.
4. Create a trusted and PKCS Certificate profile in Microsoft End Point.
5. Assign the profiles to the Mobile Devices.

## Integrating DigiCert PKI Platform with Microsoft Intune

Follow these steps to integrate DigiCert PKI Platform with Microsoft Intune:

1. Review the pre-requisites. See [“System Requirements”](#).
2. Generate a DigiCert Registration Authority Certificate. See [“Generating a DigiCert Registration Authority Certificate”](#).
3. Create a Certificate Profile in DigiCert PKI Platform. See [“Creating a Certificate Profile in DigiCert PKI Platform”](#).
4. Set up the Microsoft Intune Connector. See [“Setting up the Microsoft Intune Connector”](#).
5. Create a Trusted Certificate Profile. See [“Creating a Trusted Certificate Profile”](#).
6. Create a PKCS Certificate Template Profile in Microsoft Intune. See [“Creating a PKCS Certificate Profile in Microsoft Intune”](#).
7. Assign Profiles to Users/Devices. See [“Assigning Profiles”](#).

## System Requirements

The following are the minimum system requirements to install the Microsoft Intune certificate connector:

- Microsoft Windows Server 2012 R2 or Microsoft Windows Server 2008 R2.
- Microsoft .NET Framework 3.5.
- ASP.NET.

## Generating a DigiCert Registration Authority Certificate

Intune acts as a Registration Authority while requesting for certificates for DigiCert PKI Platform. To configure Intune as a Registration Authority (RA), you must generate a DigiCert Registration Authority Certificate.

You can follow two different methods to generate the require RA certificate:

1. Using OpenSSL via a command-line interface – see [Appendix-A](#) for details.
2. Using the Microsoft ‘certreq’ tool, as detailed within the following steps.

## To generate a DigiCert Registration Authority Certificate:

### 1. Create a Certificate Signing Request (CSR).

- a) First, create a **certreq.ini** file on the machine where the connector will be installed.

Save the following code snippet and replace the Subject (in CN format) as required and then save the file.

```
[Version]
Signature="$Windows NT$"
[NewRequest]
;Change to your,country code, company name and common name
Subject = "Subject Name in CN format"
KeySpec = 1
KeyLength = 2048
Exportable = TRUE
MachineKeySet = TRUE
SMIME = False
PrivateKeyArchive = FALSE
UserProtected = FALSE
UseExistingKeySet = FALSE
ProviderName = "Microsoft RSA SChannel Cryptographic Provider"
ProviderType = 12
RequestType = PKCS10
KeyUsage = 0xa0
[EnhancedKeyUsageExtension]
OID=1.3.6.1.5.5.7.3.2 ; Client Authentication // Uncomment if you need
a mutual TLS authentication
```

- b) Open an elevated command prompt and generate CSR content using the following command:

```
Certreq.exe -new certreq.ini request.csr
```

Open the request.csr file in Notepad and copy the CSR content which must be in the following format:

```
-----BEGIN NEW CERTIFICATE REQUEST-----
MIID8TCCAtkCAQAwbTEMMAoGA1UEBhMDVVNBMQswCQYDVQQIDAJXQTEQMA4GA1UE
...
...
fzpeAWo=
-----END NEW CERTIFICATE REQUEST-----
```

2. Log in to **DigiCert PKI Manager**.
3. In the **PKI Manager** dashboard, click the **Tasks** icon and select **Get an RA Certificate**.
4. Paste the content **from** the CSR you created earlier.



5. Specify a certificate friendly name and click **Continue**.
6. Click **Download** and download the RA certificate.
7. Click **Done**.

#### Obtain a Trusted Root certificate from DigiCert PKI Platform:

1. In the **PKI Manager** dashboard, click the **Tasks** icon and select **Manage CAs**.
2. Select the appropriate CA from the list.
3. Click **Download root certificate** and save it for later use in Microsoft Endpoint Manager Portal.

**NOTE:** For multi-level CAs both the Issuer as well as the Root certificate must be trusted.

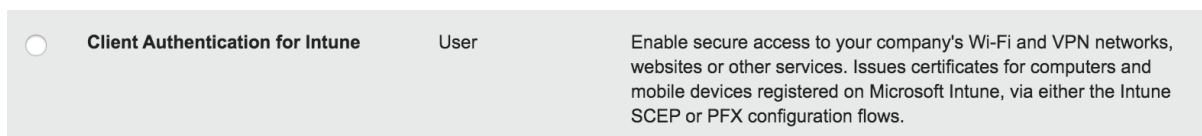
### Creating a Certificate Profile in DigiCert PKI Platform

Certificate profile determines the type of certificate that you want to install on the mobile devices.

#### To create a certificate profile in DigiCert PKI Platform:

To create a certificate profile in DigiCert PKI Platform:

1. In the PKI Manager dashboard, click Manage certificate profiles.
2. Click **Add certificate profiles**.
3. Select the mode of the profile and click **Continue**.
4. Select the **Client Authentication for Intune** certificate template that you want to use and click **Continue**.



**NOTE:** If you do not see these profiles, contact support to have them added to your account.

6. Select the enrollment method as "**PKI Web Services**".

**NOTE:** By default, the CN option on Subject DN will take the format firstname/lastname. If you need the common name format instead, remove and re-add the Common name attribute in the SDN section).

7. Provide additional details and save the certificate profile.
8. After the certificate profile is created, note the Certificate Profile OID.

**NOTE:** The Certificate Profile OID is required to configure the profile in Microsoft Intune.

## Setting up the Microsoft Intune Connector

Before installation of the certificate connector, complete the following tasks:

*Table1: Before you install*

Task	Procedure
Install .NET Framework 3.5.	Follow these steps: <ol style="list-style-type: none"> <li>1. Open <b>Control Panel&gt;Programs and Features&gt;Turn Windows features on or off</b></li> <li>2. Select <b>.NETFramework3.5</b> and install it.</li> </ol>
Enable ASP.NET	Follow these steps: <ol style="list-style-type: none"> <li>1. On the Start page, click the Server Manager tile, and then click <b>OK</b>.</li> <li>2. In Server Manager, select <b>Dashboard</b>, and click <b>Add roles and features</b>.</li> <li>3. In the <b>Add Roles and Features Wizard</b>, on the <b>Before you begin</b> page, click <b>Next</b>.</li> <li>4. On the <b>Select installation type</b> page, select <b>Role-based or feature-based installation</b>, and click <b>Next</b>.</li> <li>5. On the <b>Select destination server</b> page, select <b>Select a server from the server pool</b>, select your server, and click <b>Next</b>.</li> <li>6. On the <b>Select server roles</b> page, select <b>Web Server (IIS)</b>, and click <b>Next</b>.</li> <li>7. On the <b>Select features</b> page, click <b>Next</b>.</li> <li>8. On the <b>Web Server Role (IIS)</b> page, click <b>Next</b>.</li> <li>9. On the <b>Select role services</b> page, note the pre-selected role services that are installed by default,</li> </ol>

	<p>expand the <b>Application Development</b> node, and then select <b>ASP.NET3.5</b>.</p> <p>10. On the <b>Summary of Features to Install</b> page, confirm your selections, and then click <b>Install</b>.</p> <p>11. In the Add features that are required for ASP.NET4.5? box, click <b>Add Features</b>.</p> <p>12. Click <b>Next</b>.</p>
<p>Import the RA certificate to establish the authentication chain for the Windows computer to make Web Service calls to DigiCert PKI Platform.</p>	<p>Follow these steps:</p> <ol style="list-style-type: none"> <li>1. Open <b>Microsoft Management Console</b>.</li> <li>2. Go to <b>File-&gt;Add or Remove Snap-ins</b>.</li> <li>3. Select <b>Certificates</b> from the available Snap-ins and the click <b>Add</b>.</li> <li>4. Select <b>Computer account</b> and then click <b>Next</b> and then <b>Finish</b>.</li> <li>5. Click <b>OK</b> on Snap-ins window.</li> <li>6. Click <b>Certificate &gt; Personal</b>.</li> <li>7. Right-click and select <b>All Tasks &gt; Import</b>.</li> <li>8. Import the RA certificate that you earlier downloaded along with the private key to console.</li> </ol> <p>It is always recommended to export the imported RA as PKCS#12 (along with the exported key parameters) and then re-import the .pfx file to the Personal certificate store. (if you have imported the RA in .pfx created from the steps listed in <a href="#">Appendix-A</a>, skip the below steps and proceed to point 9.)</p> <p>To do this:</p> <ol style="list-style-type: none"> <li>a) Right-click and select <b>All Tasks &gt; Export</b>.</li> <li>b) Select <b>“Yes, export the private key”</b>.</li> <li>c) Select the Export file format.</li> </ol> <div data-bbox="771 1627 1282 1785" style="border: 1px solid black; padding: 5px;"> <p><input checked="" type="radio"/> Personal Information Exchange - PKCS #12 (.PFX)</p> <p><input checked="" type="checkbox"/> Include all certificates in the certification path if possible</p> <p><input type="checkbox"/> Delete the private key if the export is successful</p> <p><input checked="" type="checkbox"/> Export all extended properties</p> </div>

d) Enter a secured password to download and save the PFX.

Now, import the private key to personal certificate store.

e) Right-click and select **All Tasks > Import**.

f) Locate the PFX file, enter the password and click Next.

g) Browse the certificate store path and click Next.

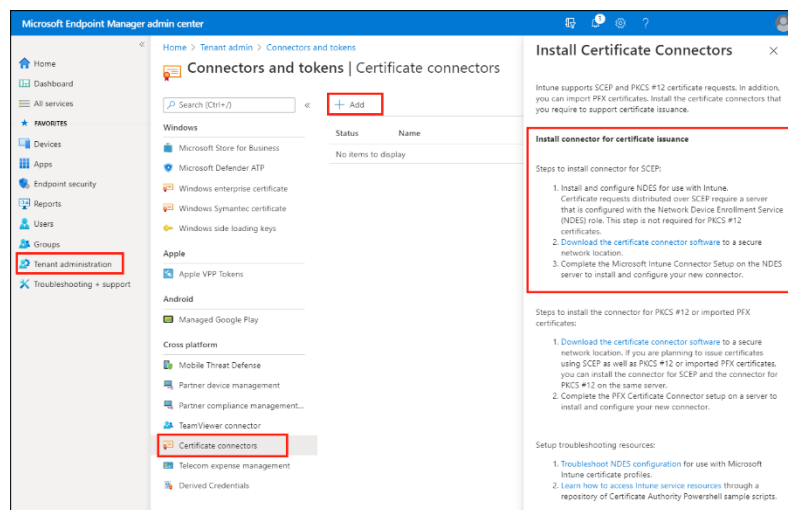
9. Once the key is imported, open the RA certificate and copy the RA thumbprint value, removing all spaces between the characters.

10. Save it for later use.

Download the Intune Certificate Connector.

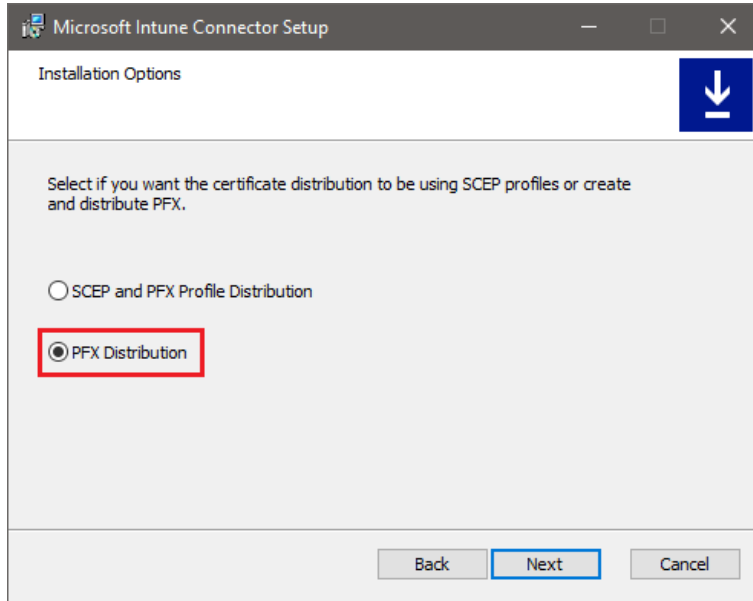
Follow these steps:

1. Sign in at <https://endpoint.microsoft.com>
2. Select **Tenant administration > Connectors and tokens > Certificate connectors > Add**.
3. Download and save the connector for SCEP file. Save it to a location accessible from the server where you're going to install the connector.

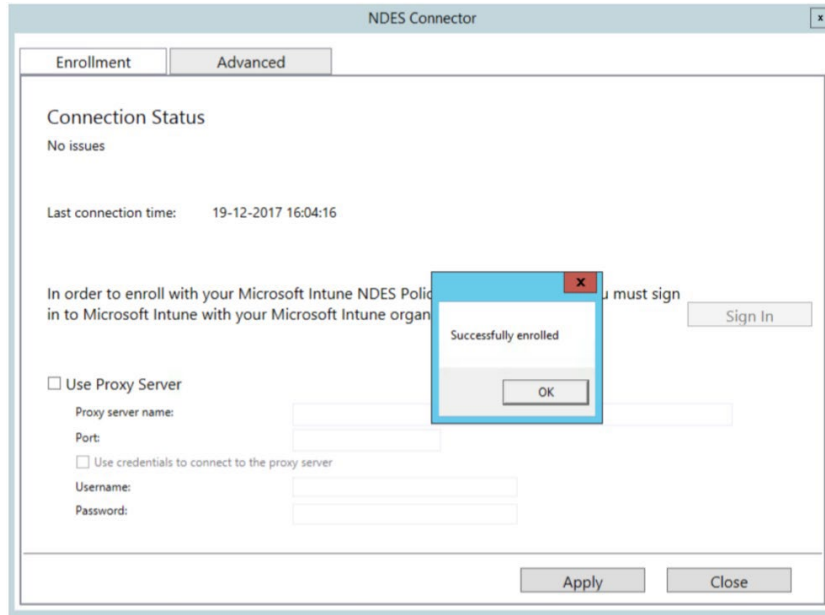


## Installing and Configuring the Microsoft Intune Connector

1. On the server where you want to install the connector, run **NDESConnectorSetup.exe** with elevated privileges.
2. Select **PFX Distribution** as the installation option and follow on the on-screen instructions to complete the installation.



3. In the NDES Connector UI, on the **Enrollment** tab, click **Sign In**.
4. Enter your Intune credentials. (Intune tenant admin)
5. On successful enrollment, the **Successfully enrolled** message is displayed.



6. Click **Apply** and **Close**.

**NOTE:** The DigiCert PKI RA certificate/key must be on the same computer where the Intune NDES Connector is installed.

7. Navigate to **C:\Program Files\Microsoft Intune\NDESConnectorSvc** and open **NDESConnector.exe.config** file.

8. Replace the highlighted value with the RA thumbprint value of your RA certificate

```
<add key="RACertThumbprint" value="2bad44960401b90ecf8d5265cf48cea6e8b8dd3f" />
```

9. Save the changes to **NDESConnector.exe.config** and restart the "Intune Connector Service" from services.msc.

## Creating a Trusted Certificate Profile in Microsoft End Point

The PKCS Certificates deployed for Intune managed devices must be chained with a Trusted Root Certificate. Create an Intune Trusted Certificate Profile with the root certificate obtained from the DigiCert PKI Platform.

1. Sign in to the <https://endpoint.microsoft.com/>
2. Navigate to **Devices > Configuration profiles > Create profile**.
3. Select the Platform of the device that will receive the profile and Select **Trusted certificate** from Profile dropdown list.

4. Click **Create**.
5. In **Basics**, enter Name and Description for the profile.
6. Click **Next**.
7. In **Configuration settings**, specify the .cer file for the trusted Root CA Certificate downloaded previously - refer to: [Obtain a Trusted Root certificate](#)  
  
For Windows 8.1 and Windows 10 devices only, select the **Destination Store** for the trusted certificate from:
  - a) **Computer certificate store - Root**
  - b) **Computer certificate store - Intermediate**
  - c) **User certificate store - Intermediate**
8. Click **Next**.
9. In **Scope tags** (optional) tab, Click **Next**.
10. In **Assignments**, select the user or groups that will receive your profile. Click **Next**.
11. *(Applies to Windows 10 only)* In **Applicability Rules**, specify applicability rules to refine the assignment of this profile. You can choose to assign or not assign the profile based on the OS edition or version of a device.
12. In **Review + create**, review your settings. When you click Create, your changes are saved, and the profile is assigned.

## Creating a PKCS Certificate Profile in Microsoft End Point

For every certificate profile that you created in DigiCert PKI Platform, you must create a corresponding PKCS certificate profile in Intune.

1. Sign in at <https://endpoint.microsoft.com>.
2. Select **Devices > Configuration profiles > Create profile**.
3. Select the Platform of the device that will receive the profile and Select **PKCS certificate** from Profile dropdown list.
4. Click **Create**.
5. In **Basics**, enter Name and Description for the profile.
6. Click **Next**.
7. In **Configuration Settings**, enter the following details.

Home > Devices >

### PKCS certificate

iOS/iPadOS

✓ Basics   **2 Configuration settings**   3 Assignments   4 Review + create

Renewal threshold (%) \* ⓘ

Certificate validity period \* ⓘ

Certification authority \* ⓘ

Certification authority name \* ⓘ

Certificate template name \*

Certificate type \*

Subject name format \* ⓘ

Subject alternative name ⓘ

Attribute	Value
User principal name (UPN)	{{EmailAddress}}

Parameter	Value
Certification authority	pki-ws.symauth.com
Certification authority name	Symantec
Certificate template name	The certificate profile OID of the certificate profile template you created in DigiCert PKI Platform.
Subject name format	Common name or Common name as email
Subject alternative name	The SAN option that you selected in DigiCert PKI Platform. (Refer to <a href="#">Table 1.1</a> )

Table:1.1 Supported Matrix of certificate fields: DigiCert PKI Platform solution vs Intune

Certificate Profile Field	DigiCert PKI Platform Certificate Attribute Name	Intune Support
Subject Alternative Name (SAN)	DNS Name	Supported
	RFC822 Name	Supported



	User Principal Name	Supported
	Directory name	Not supported
	IP Address	Not supported
	Other Name (GUID)	Not supported
	Registered ID	Not supported
	Uniform Resource Locator (URI)	Not supported

8. Click **Next**.
9. In **Assignments**, select the user or groups that will receive your profile
10. In **Review + create**, review your settings. When you click Create, your changes are saved, and the profile is assigned.

The next steps to be followed are:

- A. Once the admin completes assigning profiles for the devices, the next step for you as a user is to enroll the device. For Apple device enrollment, refer [Appendix-B](#).
- B. After enrollment for the device is completed, you can install the Company Portal App on the device. This is done to install the profile and generate the certificate on the device. For more information, refer [Appendix-C](#).
- C. Once the profile is installed and the certificate is generated on the device, you can start deploying the profiles. For more information, refer [Appendix-D](#).
- D. After the profiles are deployed, you must validate the certificate issuance details in DigiCert PKI Platform. For more information, refer [Appendix-E](#).

## Integrate Intune MDM Solution via SCEP

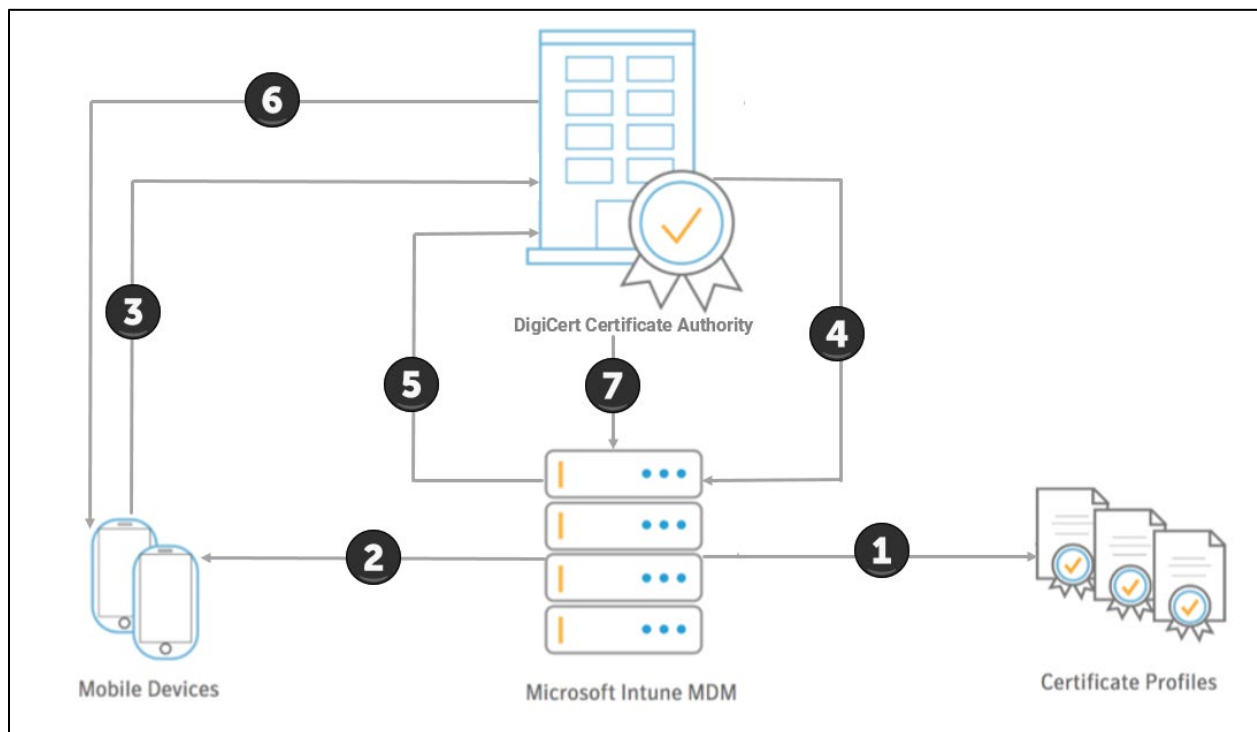
### Introduction

In the previous section we have seen how to issue certificates to devices using PKI Webservices through Microsoft Intune and NDES connector configuration.

As a next logical step, Intune has introduced SCEP support for non-Microsoft CAs. This guide details the steps required to integrate DigiCert PKI Platform and Intune to issue certificates using SCEP enrollments.

### Integration Overview

The following illustration explains how Microsoft Intune integrates with DigiCert PKI Platform via SCEP.



1. The Intune Administrator creates certificate templates in Microsoft Intune corresponding to the profiles created in DigiCert PKI Platform.
2. Microsoft Intune deploys the certificate profile to the specified group of mobile devices.
3. The Mobile Device will enroll for the certificate from DigiCert Certificate Authority.
4. DigiCert Certificate Authority will validate the request with Intune.

5. Microsoft Intune will provide the validation response to DigiCert PKI Platform SCEP service.
6. DigiCert Certificate Authority will issue the certificate to the requesting device.
7. Finally, DigiCert Certificate Authority will provide the confirmation message to Intune.

## Step 1: Register the Client Application

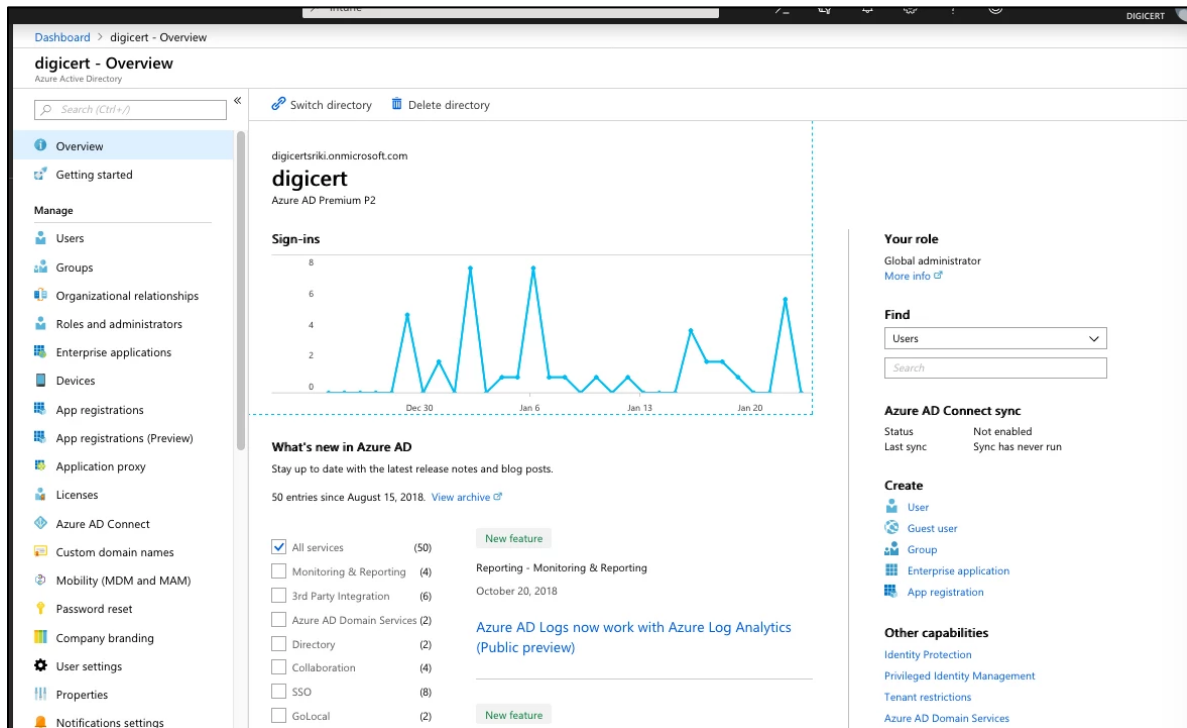
Firstly, we need to register the SCEP Service which will be making the call to the Intune API.

To do this –

1. On your Intune tenant, please make sure Azure Active Directory services is enabled. (This is enabled with P1/P2 license or Enterprise Mobility Suite (EMS).

Please note that if you have EMS, then Azure Active Directory Premium P2 is enabled by default.

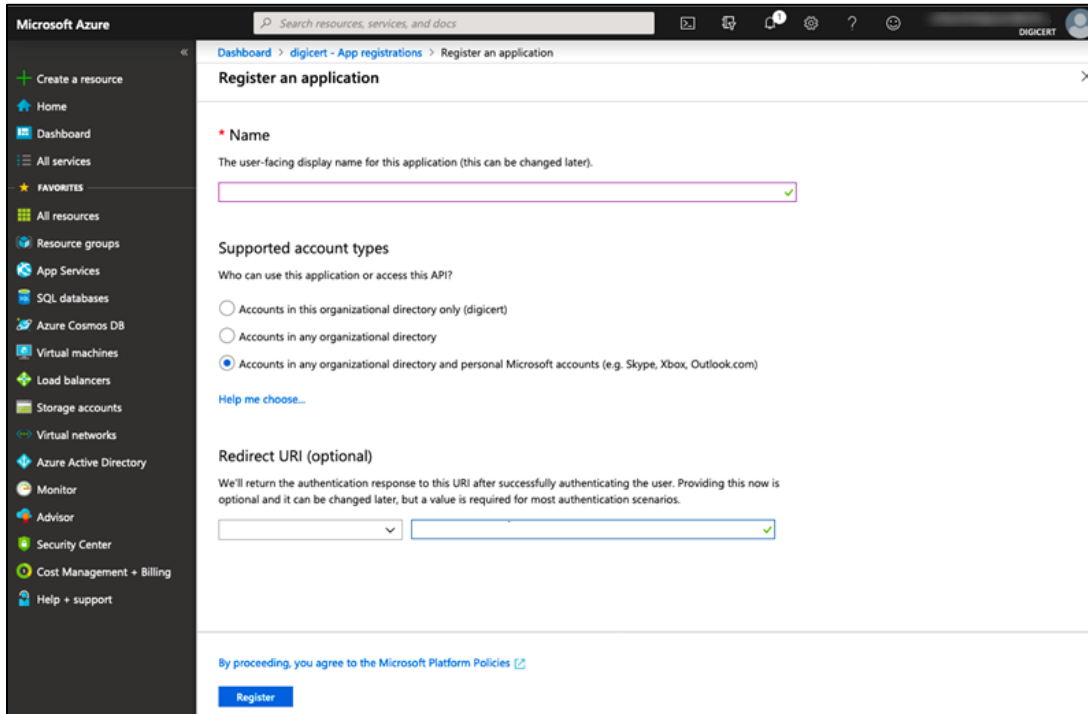
2. On the Azure portal, navigate to "Azure Active Directory".



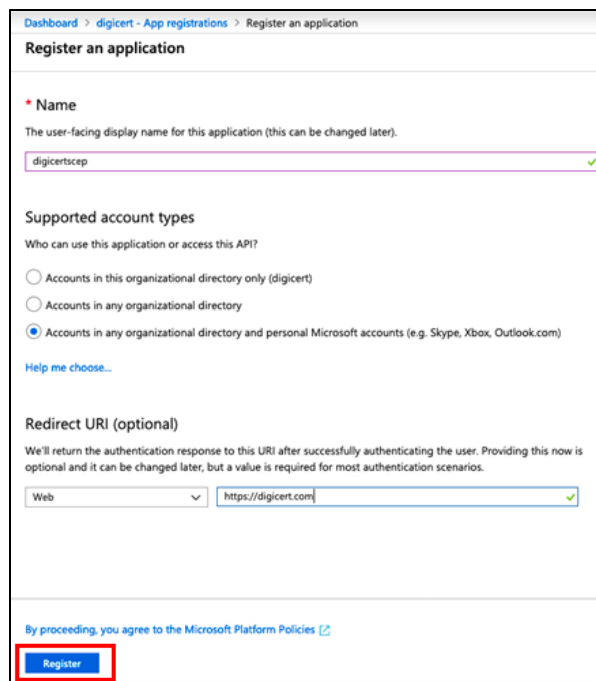
3. Click on "App Registrations" link to start the application registration process.

**NOTE:** Please note that you can register as many applications as you want using different application id and key params for more security.

4. Click on "Register an application" link.

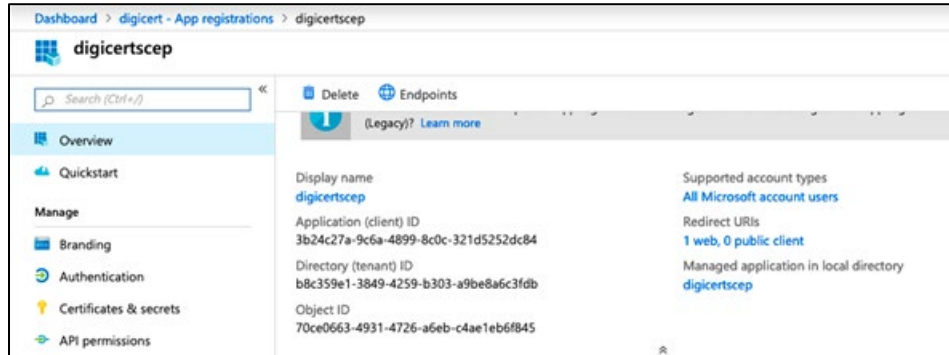


5. Provide a Name for the application and sign-on URL which can be identified with your application. For our purpose these can be arbitrary values.

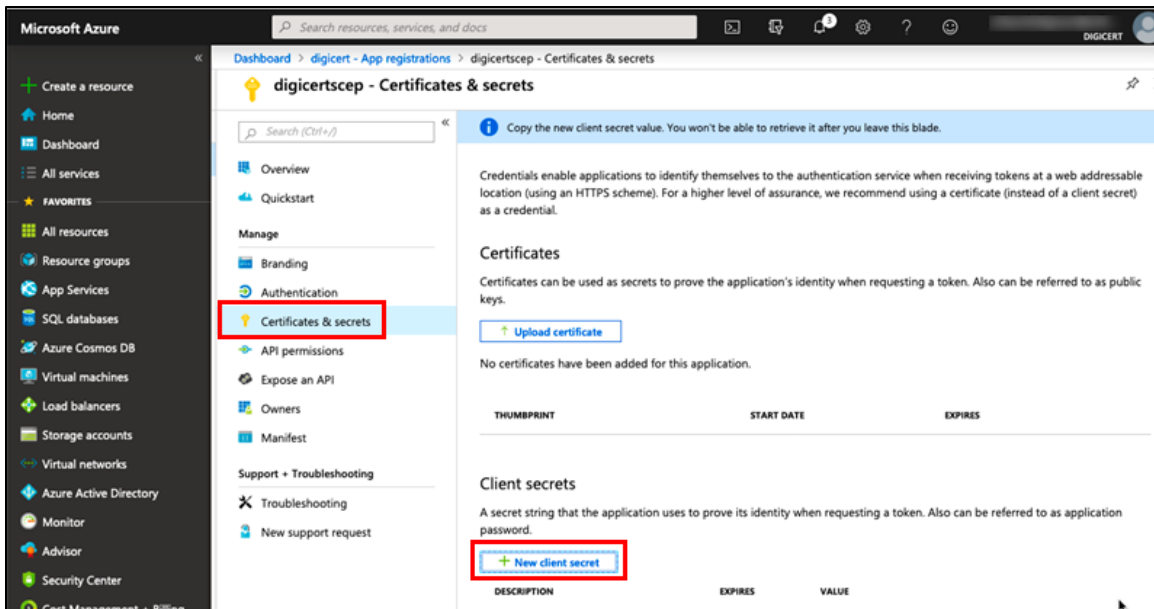


6. Click on "Register" to complete the registration.

- In the resulting screen below, please copy and save the application id value in a secure file for later use.



- Click on "Certificates & secrets" icon and then click on "New Client Secret" link.



- Provide the client secret (can be any string). Select desired expiration period for the client secret. (Please note that the client secret will need to be re-created after expiration) Then click **Add**.

**Add a client secret**

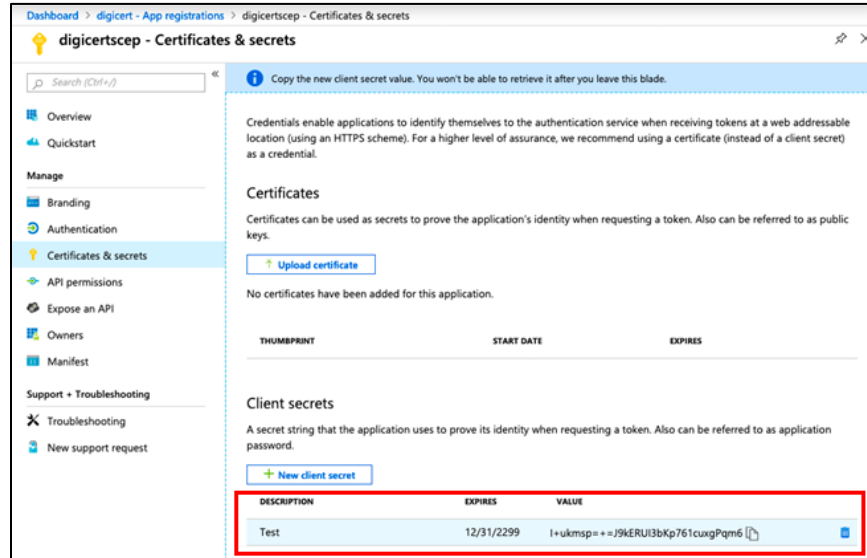
Description

Expires

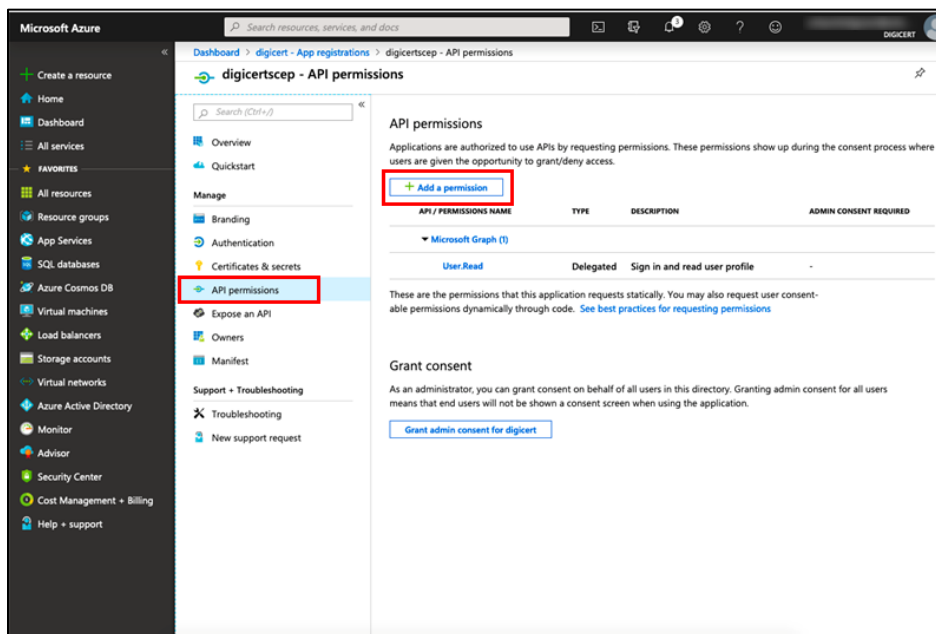
In 1 year  
 In 2 years  
 Never

10. Saving the client secret information will create a random string as application key and will display it in the text box. Copy this key value and store it in the same file as the previously saved application id.

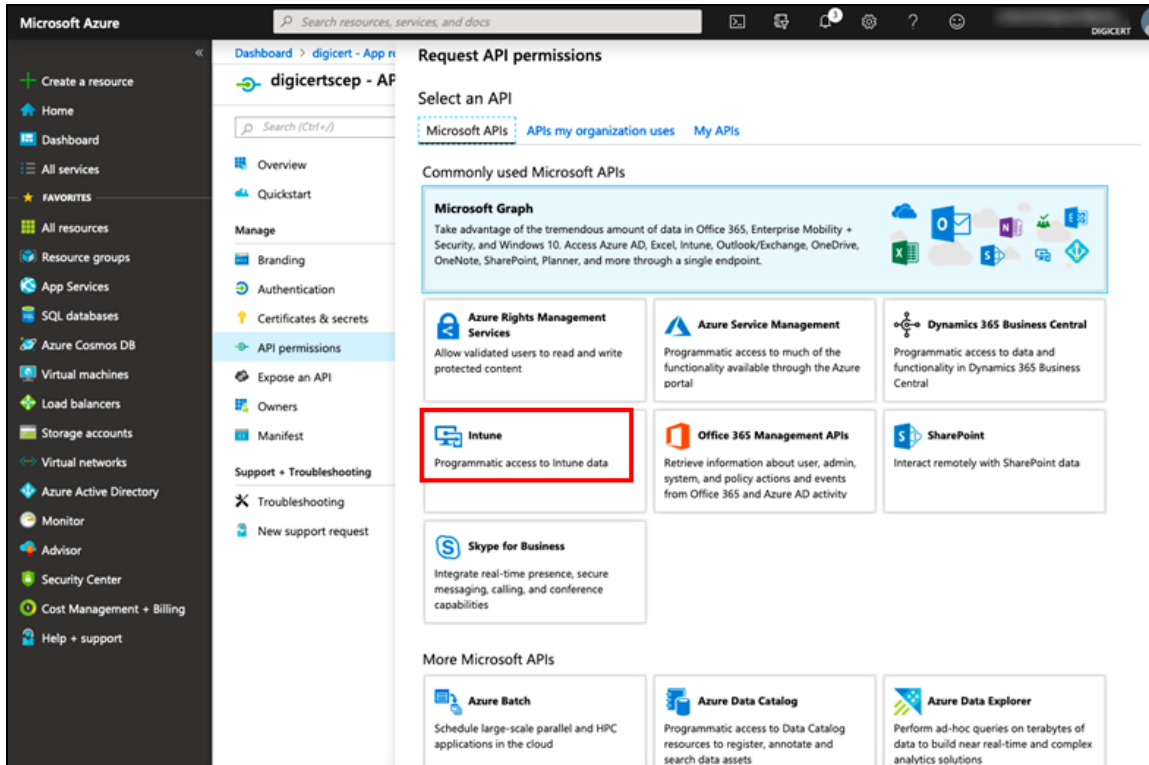
**NOTE:** The client secret string cannot be viewed again as it remains hidden once this view is closed. If this value is not saved, a new client secret will need to be created if lost.



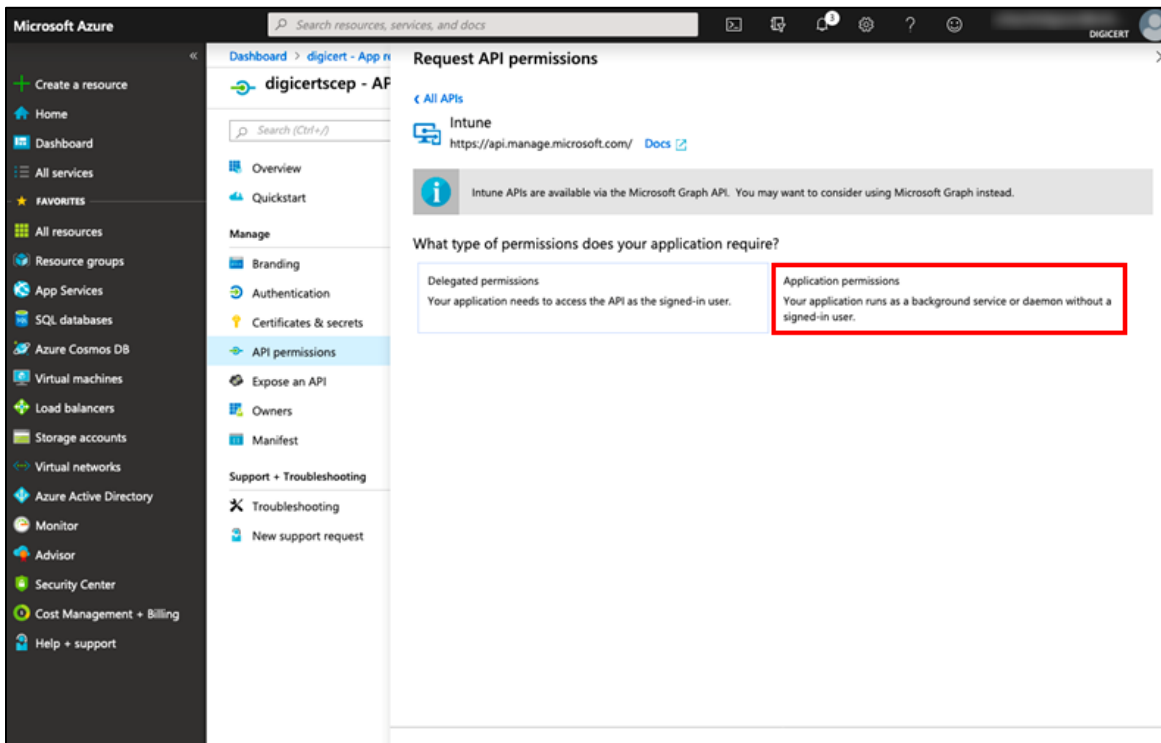
11. Once the client secret is saved, click on "API Permissions->Add a permission".



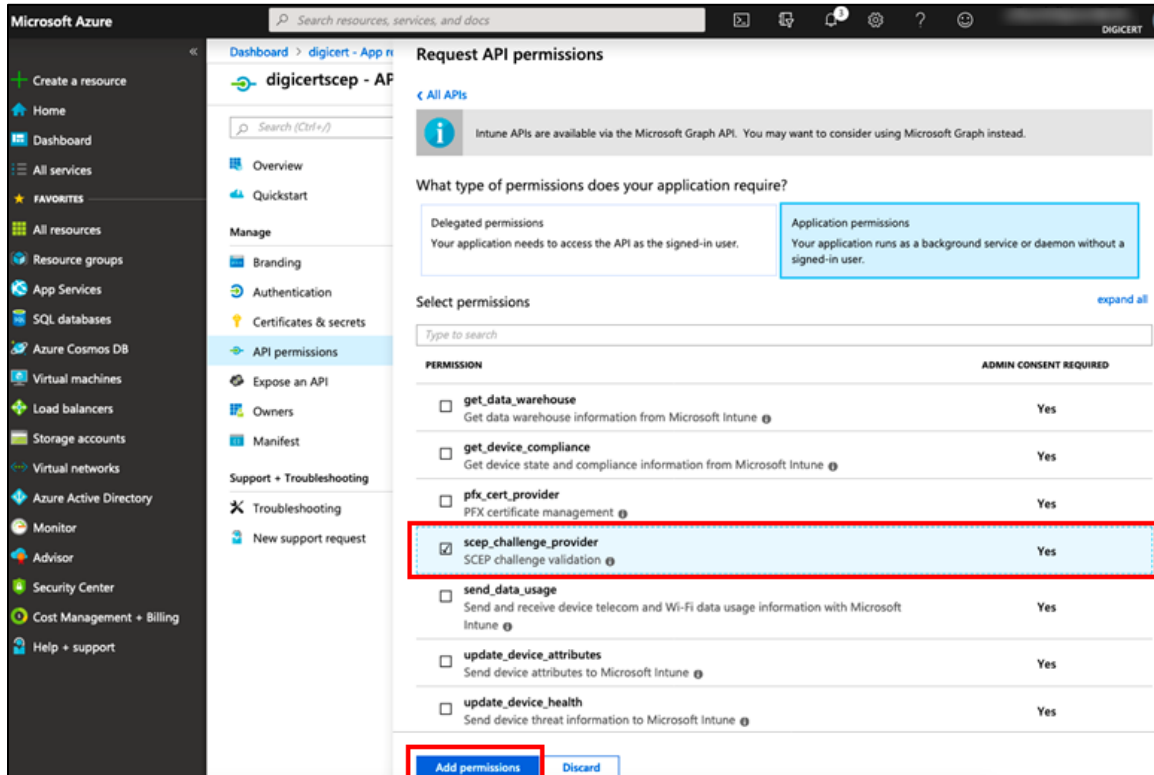
12. Select "Intune".



13. Click on "Application permissions".



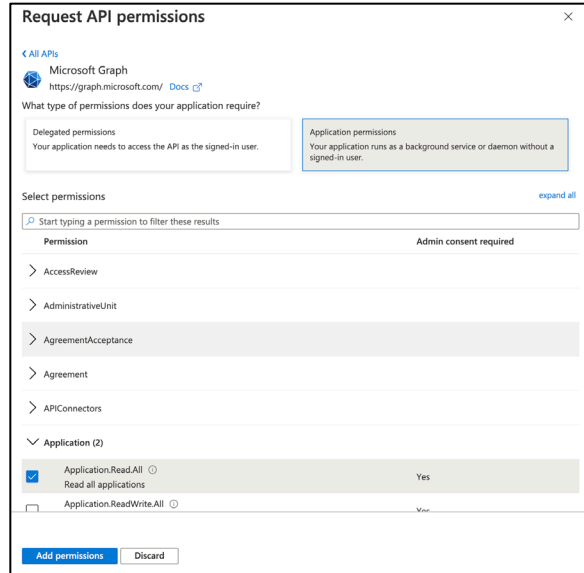
14. Select "scep\_challenge\_provider" and then click on "Add permissions".



15. Click **Add permissions** button to add the **Microsoft Graph** permission:

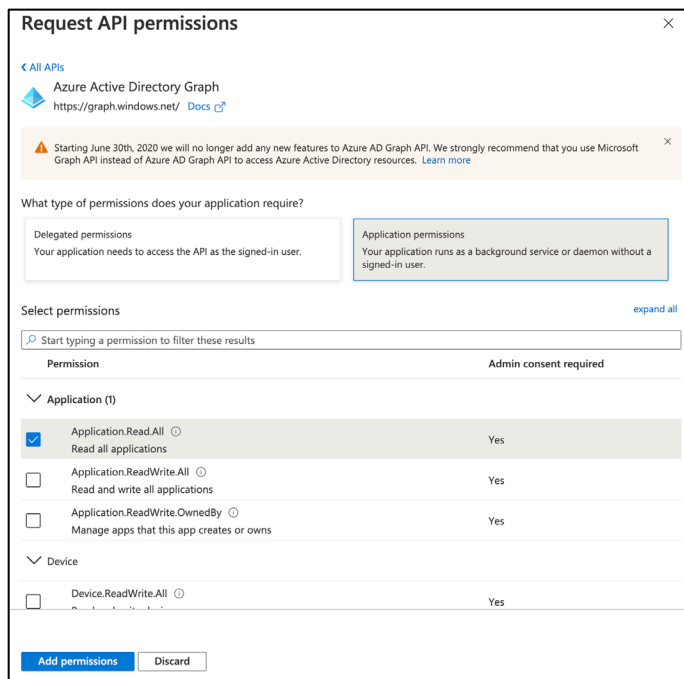
- On the Request API permissions page, select **Microsoft Graph > Application permissions**.
- Expand **Application** and select the checkbox for **Application.Read.All** (Read all applications).
- Select **Add permissions** to save this configuration.





16. Click on the **Add permissions** button to add the **Azure Active Directory Graph** permission:

- On the Request API permissions page, select **Azure Active Directory Graph > Application permissions**.
- Expand **Application** and select the checkbox for **Application.Read.All** (Read all applications).
- Select **Add permissions** to save this configuration.



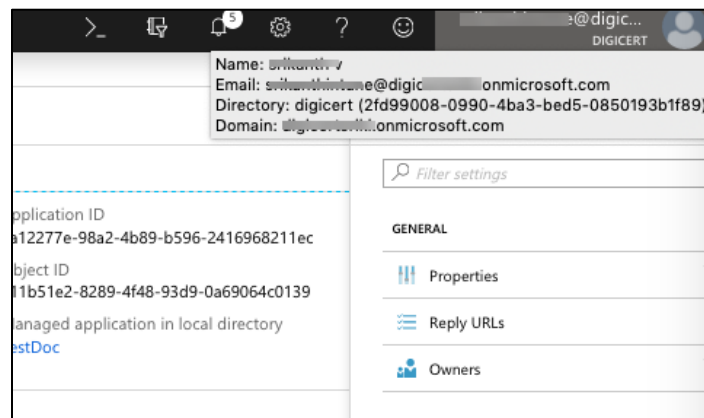
Remain on the API permissions page and select **Grant admin consent** for <your tenant>, and then select **Yes**.

+ Add a permission <input checked="" type="checkbox"/> Grant admin consent for mpkidigicert					
API / Permissions name	Type	Description	Admin consent requ...	Status	
▼ Azure Active Directory Graph (1) ...					
Application.Read.All	Application	Read all applications	Yes	✔ Granted for mpkidigicert	...
▼ Intune (1) ...					
scep_challenge_provider	Application	SCEP challenge validation	Yes	✔ Granted for mpkidigicert	...
▼ Microsoft Graph (2) ...					
Application.Read.All	Application	Read all applications	Yes	✔ Granted for mpkidigicert	...
User.Read	Delegated	Sign in and read user profile	No	✔ Granted for mpkidigicert	...

To view and manage permissions and user consent, try [Enterprise applications](#).

The app registration process in Azure AD is complete.

**NOTE:** Please note that on the right-hand top corner when you click on your user account, you will see the account details.



17. Take a note of the email domain in the Email value (which is after the '@' sign). In the screenshot it is 'xxxx.onmicrosoft.com'. This is the value for your Tenant ID.

18. Save this value along with the Application ID and Application Key values saved before.

19. These values need to be entered while creating a certificate profile in DigiCert PKI Platform.

## Step 2: Create a SCEP URL

1. Create a SCEP profile in DigiCert PKI Platform and make note of the SCEP URL for the profile.
  - a) Create a profile of the Client Authentication for Intune BCT.

<input type="radio"/>	<b>Client Authentication for Intune</b>	User	Enable secure access to your company's Wi-Fi and VPN networks, websites or other services. Issues certificates for computers and mobile devices registered on Microsoft Intune, via either the Intune SCEP or PFX configuration flows.
-----------------------	---	------	--

### NOTE:

- If you do not see these profiles, contact support to have them added to your account.
  - Please note that the certificate template "**Client Authentication for Intune**" supports Intune Integration in MacOS as well.
- b) Provide a name for the profile.
  - c) Select the enrolment method as "**SCEP**".
  - d) Authentication method is defaulted to "**Enrollment code**" - click on the Authentication method to enter the values of Application registration from Intune.

Enrollment method:  
**SCEP**

Authentication method:  
**Enrollment Code**

Certificate store:  
Not applicable

Private key security level:  
Not applicable

be changed for this configuration.

**Note:** Though you cannot change the Authentication method, you can update the below configuration values that define the application integration with Microsoft Intune. Please complete your Intune application registration to get these values as explained in the Digicert MPKI SCEP-Intune integration guide. Note: We do not display the pre-existing configurations (if any) for this account for security reasons.

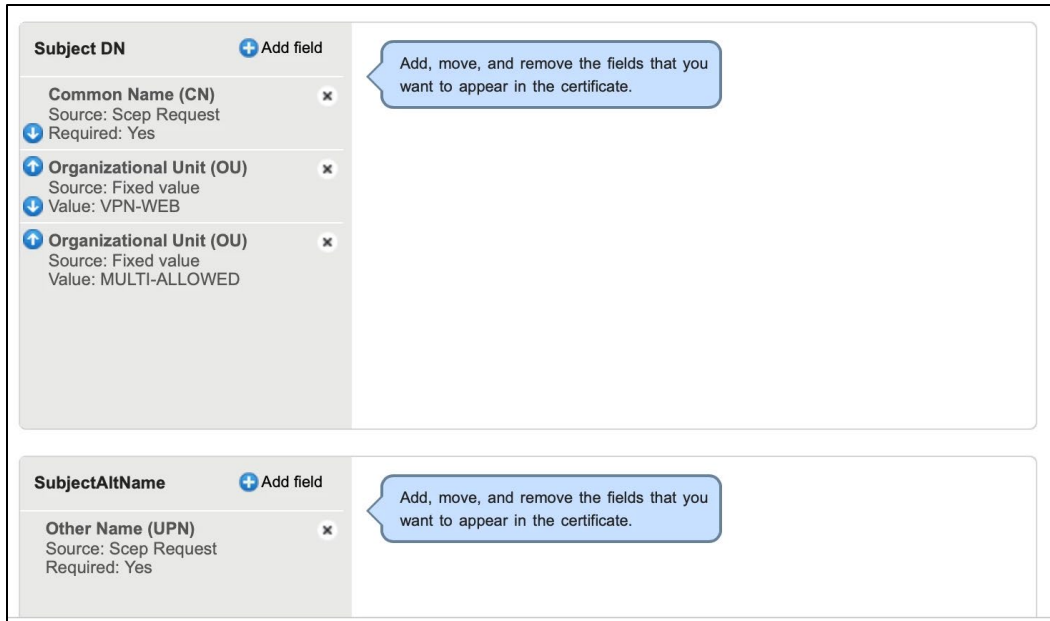
**Application ID:**

**Application Key:**

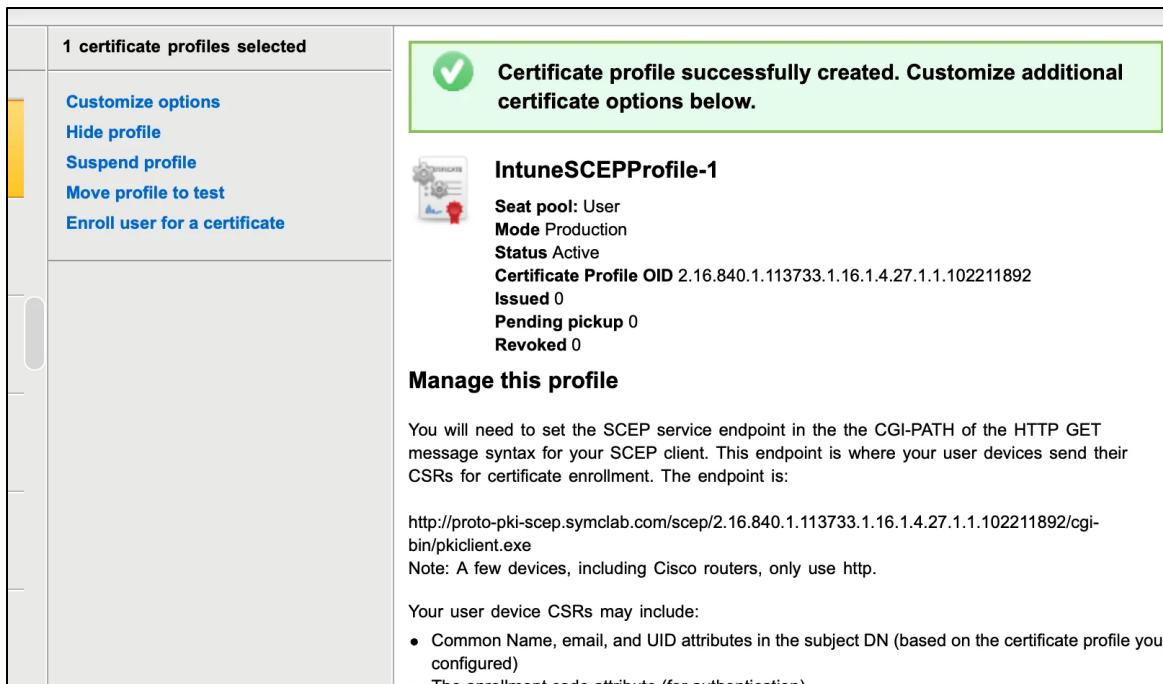
**Tenant ID :**

(usually something ending with onmicrosoft.com)

- e) In the **Subject DN**, select common name and other required attributes.
- f) In the **SubjectAltName**, select UPN and Email as required. Please note that if you select both, the Email will be taken as the SeatID. (Ensure that this matches the Intune profile configuration as detailed in the next steps).



- g) Keep all the other attributes as is and then save the profile.
- h) Make a note of the **SCEP URL** displayed (without the “/pkiclient.exe” suffix<sup>1</sup>), as it is required in the next steps for configuring Intune profiles.

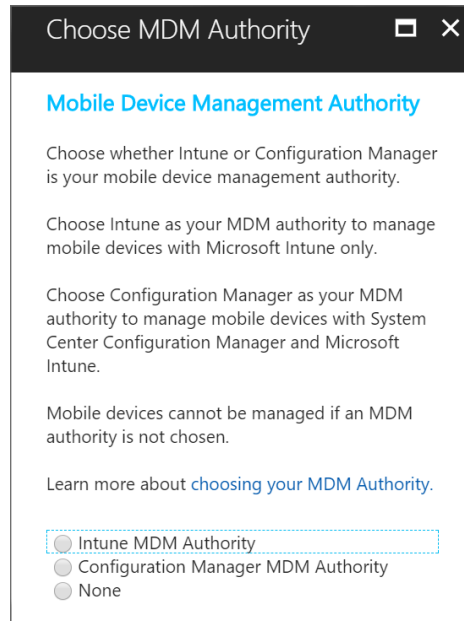


<sup>1</sup> This is ONLY required for Windows 10 profiles. All other platforms (iOS, Android, macOS) require the full SCEP Server URL displayed on the certificate profile.

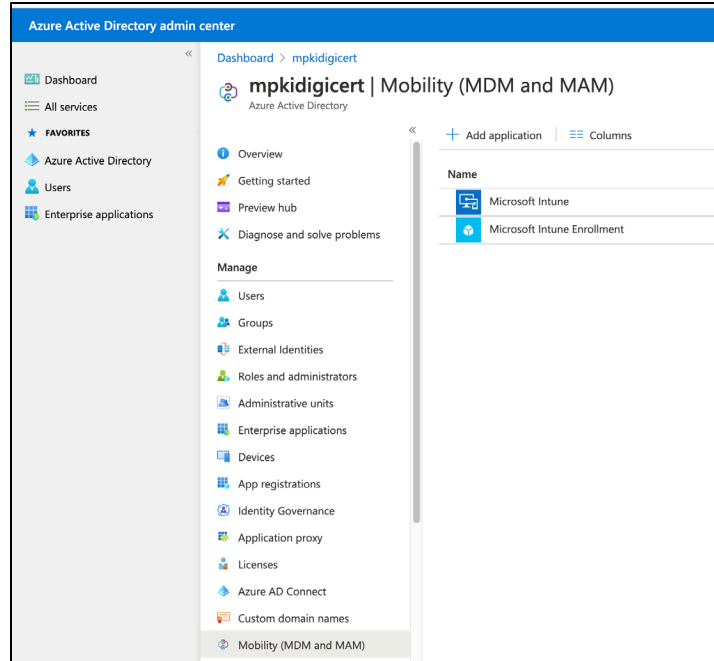
Once the certificate profile configuration on DigiCert PKI Platform is complete, the following Intune configuration steps are needed:

### Step 3: Configure Intune

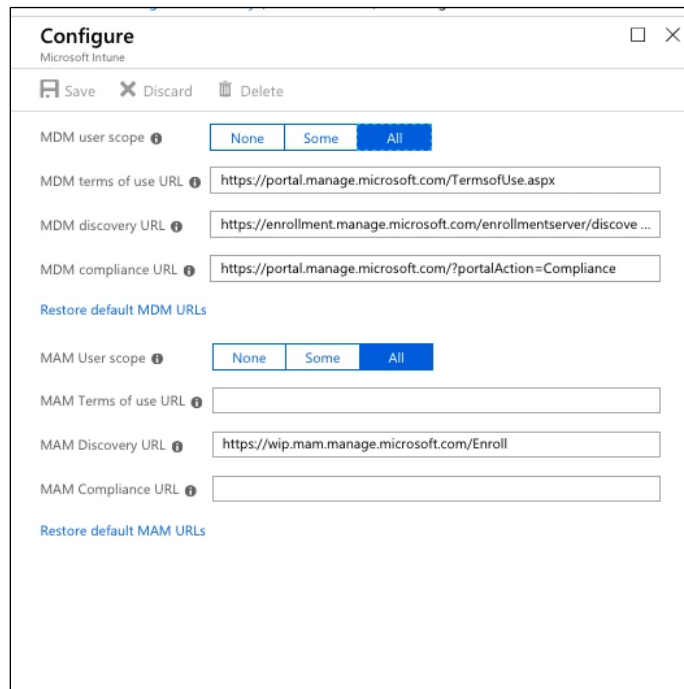
1. Login to <https://endpoint.microsoft.com>, select the orange banner to open the Mobile Device Management Authority setting. The orange banner is only displayed if you haven't yet set the MDM authority. Under Mobile Device Management Authority, choose your MDM authority as "Intune MDM Authority".



2. For Windows 10 device (machine) enrollments - Mobility Management should be set to "All" so that all types of users and devices are managed by Intune MDM.
3. Navigate to "Azure Directory Services" on Azure portal and then select Mobility (MDM AND MAM). Once there, select "Microsoft Intune".



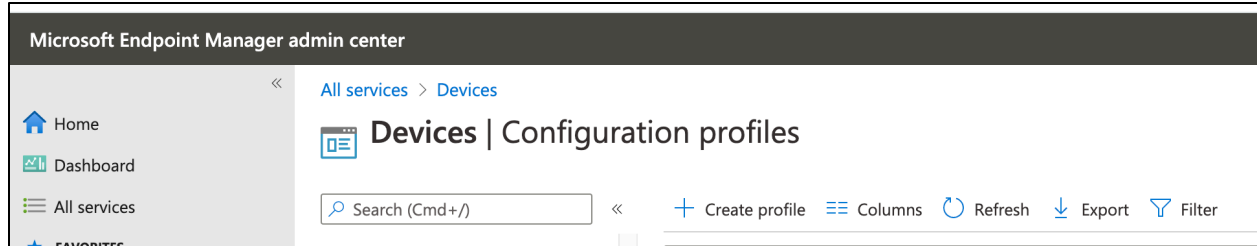
4. In the next configuration page, select “All” for both MDM and MAM sections and leave the rest to be default values. Click on “Save”.



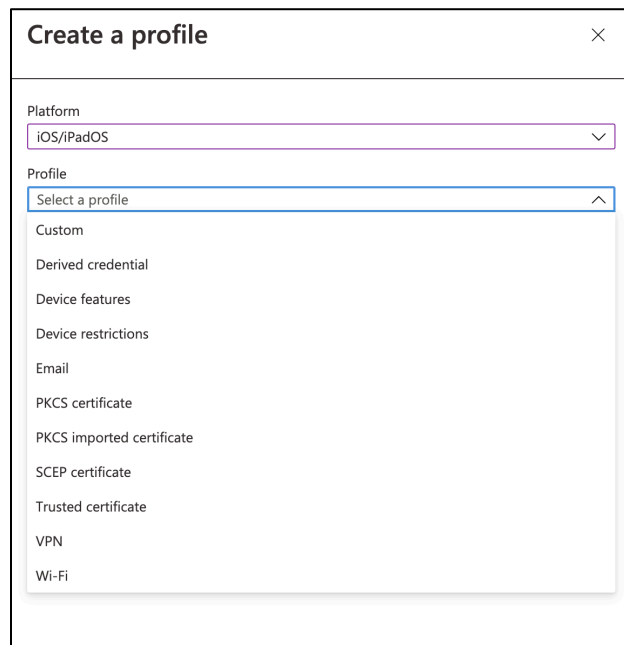
5. Once MDM authority is set, we will be configuring two profiles per device type (iOS and Android), i.e. one profile for the CA certificate and one profile for the end entity certificate.

## Profile - 1: Creating "Trusted Certificate" Profile

1. Sign in at <https://endpoint.microsoft.com/>
2. Select **Devices** > **Configuration profiles** > **Create profile**.



3. Select the Platform of the device that will receive the profile and Select **Trusted certificate** from Profile dropdown list.



4. Select **Create**.
5. In **Basics**, enter Name and Description for the profile.
6. Select **Next**.
7. In **Configuration settings**, specify the .cer file for the trusted Root CA Certificate that was downloaded earlier (Refer to: [Obtain a Trusted Root certificate](#)).

For Windows 8.1 and Windows 10 devices only, select the **Destination Store** for the trusted certificate from:

- a) Computer certificate store - Root
  - b) Computer certificate store - Intermediate
  - c) User certificate store - Intermediate
8. Select **Next**.
  9. In **Scope tags** (optional) tab, Select **Next**.
  10. In **Assignments**, select the user or groups that will receive your profile
  11. (*Applies to Windows 10 only*) In **Applicability Rules**, specify applicability rules to refine the assignment of this profile. You can choose to assign or not assign the profile based on the OS version of a device.
  12. In **Review + create**, review your settings. When you select Create, your changes are saved, and the profile is assigned.

### Profile - 2: Creating a SCEP Profile

1. Sign in at <https://endpoint.microsoft.com>.
2. Navigate to **Devices > Configuration profiles > Create profile**.
3. Select the Platform of the device that will receive the profile and Select **SCEP certificate** from Profile dropdown list.
4. Click **Create**.
5. In **Basics**, enter Name and Description for the profile.
6. Click **Next**.
7. In Configuration Settings, provide corresponding certificate attributes as per the certificate profile you would have configured in PKI Manager in [Step 2](#) above.



### SCEP certificate

iOS/iPadOS

✓ Basics **2 Configuration settings** 3 Assignments 4 Review + create

Certificate type: User

Subject name format \* ⓘ: CN={{UserName}}

Subject alternative name ⓘ

User principal name (UPN): [dropdown] {{EmailAddress}}

[dropdown] Not configured

Certificate validity period \* ⓘ: Years [dropdown] 1

Key usage \* ⓘ: 2 selected

Key size (bits) \* ⓘ: 2048

Root Certificate \* ⓘ: Digicert\_oct6\_issuer\_PV

+ Root Certificate

Extended key usage \* ⓘ [Export]

Name	Object Identifier	Predefined values
Client Authentication	1.3.6.1.5.5.7.3.2	Client Authentication (1.3.6.1.5.5.7...
[dropdown]	Not configured	[dropdown]

Enrollment Settings

Renewal threshold (%) \* ⓘ: 20

SCEP Server URLs \* ⓘ [Export]

https://pki-scep.symauth.com/scep/2.16.840.1.113733.1.16.1.4.27.1.1.634289337/cgi-bin/pkiclient.exe

e.g. https://contoso.com/certsrv/mscep/mscep.dll

- a) For **Subject name format** - Provide the CN format chosen in DigiCert's PKI Manager (usually email or firstname / lastname or similar).
- b) For SAN, select the options that correspond with the DigiCert certificate profile configuration, being either UPN/Email or both.

Subject alternative name ⓘ

User principal name (UPN) [dropdown] {{EmailAddress}}

[dropdown] Not configured

Email address

User principal name (UPN)

URI

C [dropdown] 1

- Select Key usage (usually both)

- Select Key size

Root Certificate	Key size (bits)
Digicert_oct6_issuer_PV	2048
+ Root Certificate	4096

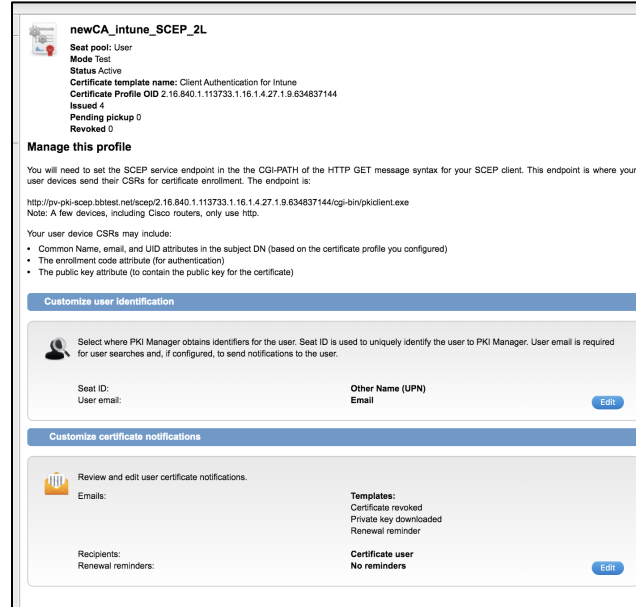
- For Root certificate -When you create an end entity certificate profile (eg SCEP certificate) - select the most immediate issuing CA as the root certificate property.

Root Certificate	Issue Date
Digicert_oct6_issuer_PV	11/06/20, 11:44 PM
Digicert_oct6_root	11/06/20, 11:43 PM
iso_1l_root_FT	5/19/20, 2:20 PM
iso_1l_root_pv	10/01/19, 2:13 PM
iso_2l_CA_RL	12/03/19, 10:45 AM
iso_2l_root_RL	12/03/19, 10:46 AM
iso_2l_root_pv	9/19/19, 5:05 PM
iso_2l_root_pv	10/04/19, 6:44 AM
iso_psv_2l_issuer	3/11/20, 5:05 PM
iso_psv_2l_root	3/11/20, 5:05 PM
iso_psv_2l_root	3/21/20, 12:19 AM
iso_public_root_new_pv	3/24/20, 12:14 AM
iso_public_root_rl	3/23/20, 11:35 PM
iso_psv_rl_root	3/23/20, 12:28 AM
iso_rl_root_pv	3/18/20, 10:30 AM
prod_iso_2l_issuer	10/11/19, 7:29 AM

- Select EKV as required - (Usually client authentication for VPN profiles).

8. In Enrollment settings > **Renewal Threshold (%)**, leave the default value set to 20%, which means the renewal of the certificate will be attempted when the certificate reaches 80% of its validity period.
9. For SCEP Server URLs, provide the SCEP URL which was copied when the certificate profile was created in DigiCert PKI Platform (Refer: [Step 2](#)).

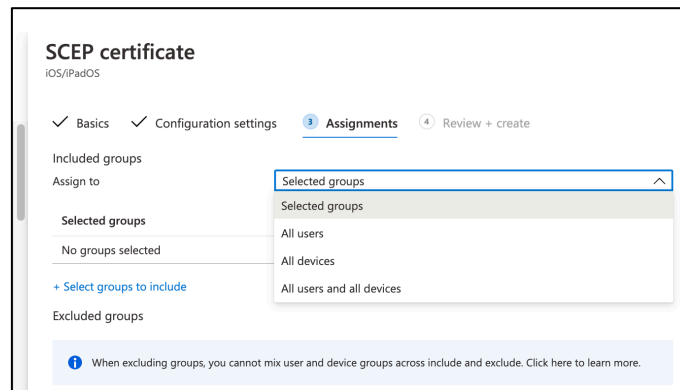
**NOTE:** The SCEP URL must be https:// (http URLs will not work)



a) Provide the **SCEP URL**, without the `/pkiclient.exe` suffix, and click "Add". e.g. `https://proto-pki-scep.symauth.com/scep/2.16.840.1.113733.1.16.1.2.3.1.1/cgi-bin`

b) Click **Next**.

10. In **Assignments**, select the user or groups that will receive your profile and click **Next**.

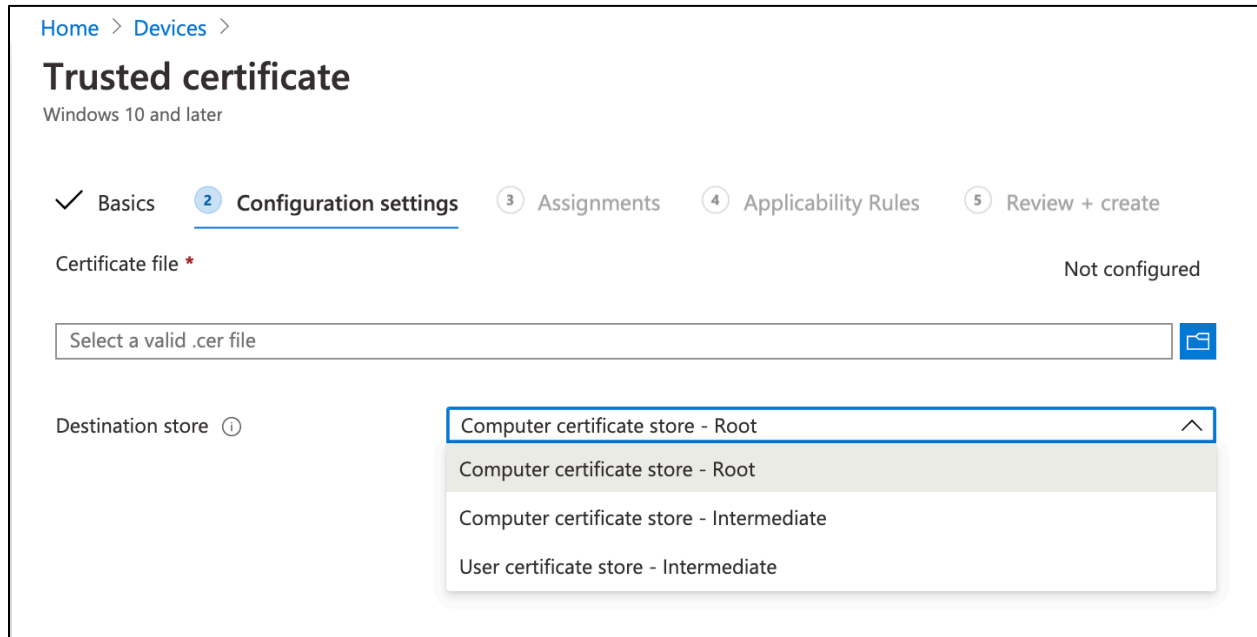


11. In **Review + create**, review your settings. When you click create, your profile is saved and assigned to the selected user or groups.

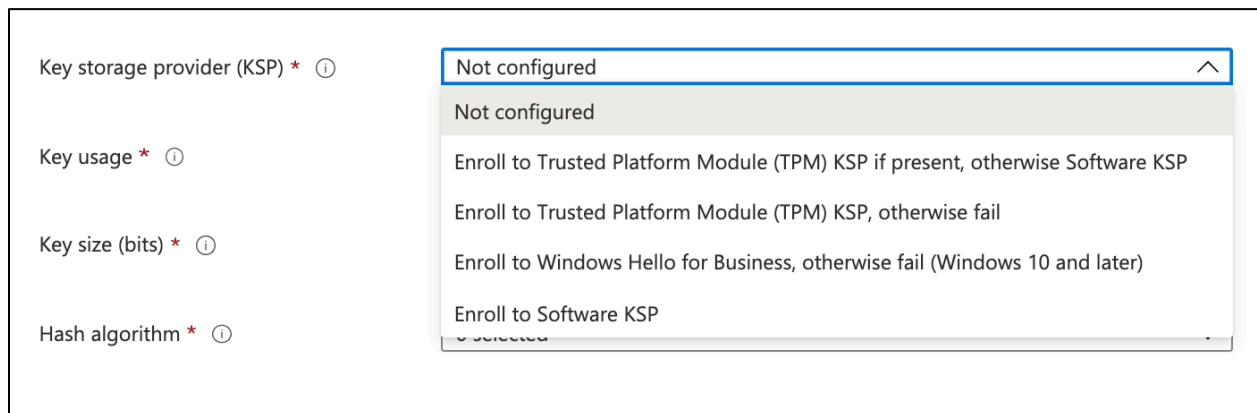
12. Once the profiles are created and assigned, you can start enrolling devices through Intune.

## Windows Machine enrollment

1. Select platform as Windows 10 or later (for Windows 10). For earlier windows, select Windows 8.1 or later.
2. In the Trusted profile configuration, you would also need to select the appropriate keystore (MMC trust store) - where certificates will be saved once it is deployed.



3. For Windows enrollment, in SCEP certificate profile, you would also need to choose appropriate KSP (choose "Enroll to Software KSP" if no specific TPM requirements).



Now we have completed steps to:

1. Register the application and create an application id, application key and tenant id on Intune and use these values to configure the DigiCert certificate profile. (Step 1).

2. Configure the Microsoft Intune. ([Step 3](#)).
3. Create certificate profile for VPN-BCT using the BCT i.e. "Client Authentication for Intune-SCEP" loaded to the account and save the SCEP URL. ([Step 2](#)).
4. Create Intune profiles for Trusted certificate and SCEP certificate and assign these to respective devices. ([Profile 1](#) and [Profile 2](#)).

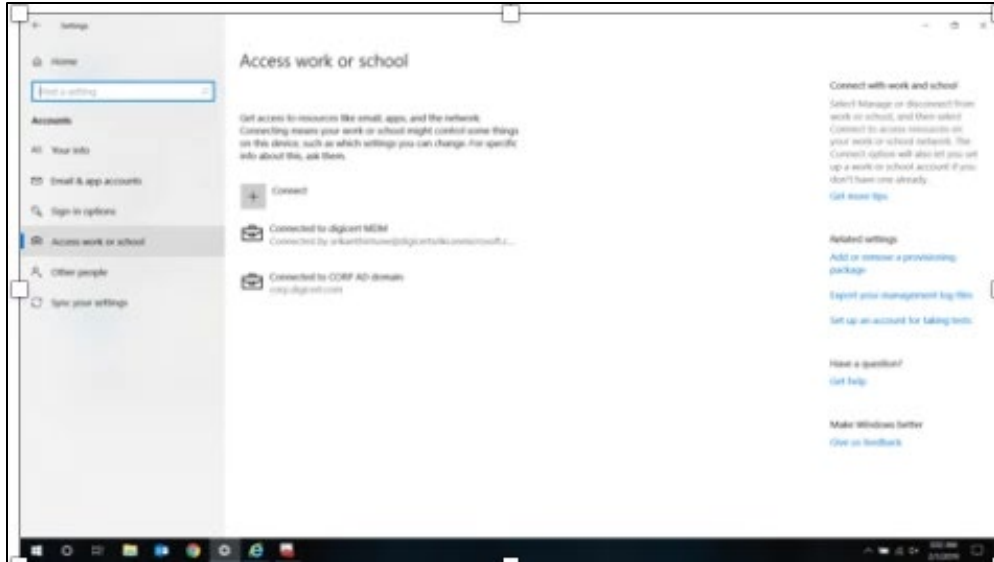
Next steps are:

- E. Once the admin completes assigning profiles for the devices, the next step for you as a user is to enroll the device. For Apple device enrollment, refer [Appendix-B](#).
- F. After enrollment for the device is completed, you can install the Company Portal App on the device. This is done to install the profile and generate the certificate on the device. For more information, refer [Appendix-C](#).
- G. Once the profile is installed and the certificate is generated on the device, you can start deploying the profiles. For more information, refer [Appendix-D](#).
- H. After the profiles are deployed, you must validate the certificate issuance details in DigiCert PKI Platform. For more information, refer [Appendix-E](#).

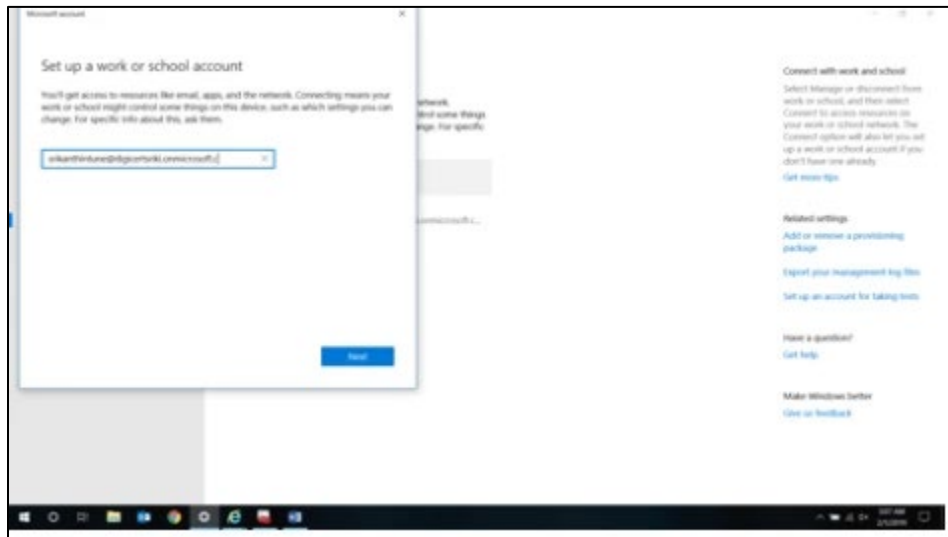
## Windows Machine Enrollment Steps

To enroll a windows machine to Intune:

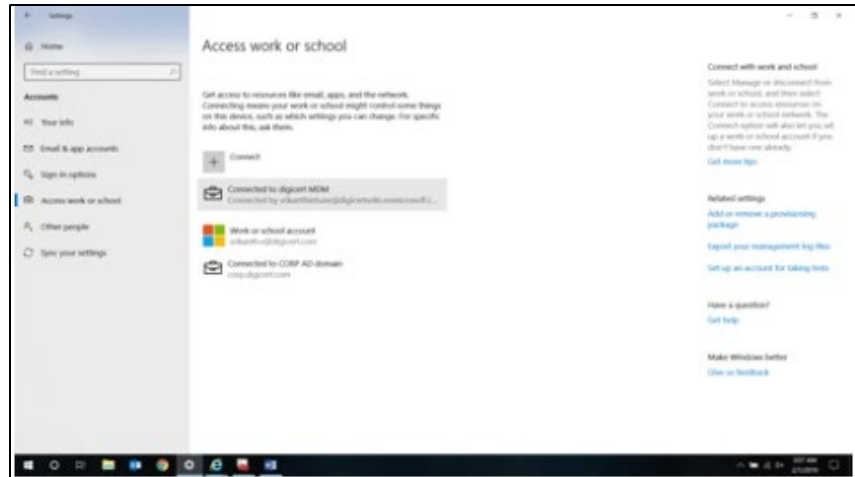
1. Login to the Windows platform (device/machine).
2. Go to <Start> - **Settings** – **Accounts**.
3. In the Accounts details, you will see the current account that you would have logged into.
4. Click on the "**Access work or school**" link on the left menu.



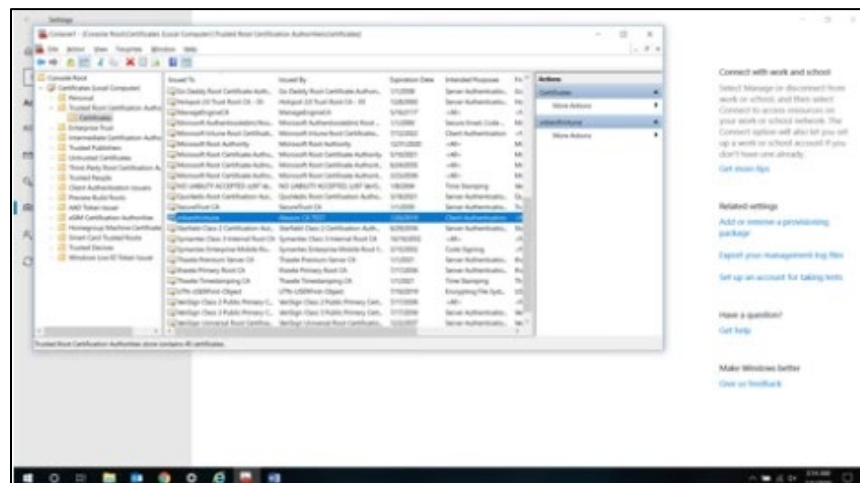
5. Login using your Azure portal credentials and the machine will be enrolled to be managed by MDM.



6. After some time (up to a few minutes), the applications, settings and profiles will be synced to the machine from the MDM.
7. Once enrolled, you can see the Azure account displayed on the "Access work or school" section along with other account(s).
8. To view the information of the Azure account, click on the account name and click on "Info".



9. To view the certificate issued to the machine, launch mmc.exe and add the "Certificates" snap-in (From File > Add/Remove Snap-Ins).
  10. Once in mmc, select certificates and click on **Trusted Root Certification Authorities** to view Root CA certs, **Intermediate Certification Authorities** to view ICA and **Personal** section to see end entity certificates.
- (Please note that this is based on the store that was selected on Microsoft Endpoint Manager while creating profiles for Windows platform).



## Integrate Intune MDM Solution via Device Authentication

This section of the guide includes the steps to integrate Intune using "Generic Device Authentication for Intune" certificate template for SCEP and PKI Web Services.

## SCEP Integration

To integrate Intune using “**Generic Device Authentication for Intune**” certificate template via SCEP, follow the below steps:

### Registering the Client Application.

Refer: [Register the Client Application](#)

### Create a SCEP URL

1. Create a profile in DigiCert PKI Platform and make note of the SCEP URL for the profile.
  - a) Create a profile using the **Generic Device Authentication for Intune** template.

<input type="radio"/>	<b>Generic Device Authentication for Intune</b>	Device	Enables an organization to issue customized device certificates commonly needed for computers, client-to-server and server-to-server authentication. Issues certificates to devices registered on Microsoft Intune, via either the Intune SCEP or PFX configuration flows.
-----------------------	---	--------	--

#### NOTE:

- If you do not see this profile, contact support to have it added to your account.
- Please note that the certificate template “**Generic Device Authentication for Intune**” supports Intune Integration in MacOS as well.
- For “**Device**” certificate type, the SAN types supported are Email address, UPN and DNS.  
(Please note this must match the Intune profile configuration as detailed in the next steps).

For detailed steps, please refer to [Create SCEP URL](#) from the previous section.



Table 1.2: Supported Matrix of certificate fields: DigiCert PKI Platform solution vs Intune

Certificate Profile Field	DigiCert PKI Platform Certificate Attribute Name	Intune Support
Subject Alternative Name (SAN)	DNS Name	Supported (Device only)
	RFC822 Name	Supported
	User Principal Name	Supported
	Directory name	Not supported
	IP Address	Not supported
	Other Name (GUID)	Not supported
	Registered ID	Not supported
	Uniform Resource Locator (URI)	Not supported

## Configure Intune

Follow the steps provided in the section [“Configure Intune”](#).

### Profile -1: Creating “Trusted Certificate” Profile

Refer to the steps provided in the section: [Create “Trusted Certificate” Profile](#)

### Profile -2: Creating a SCEP Profile

Refer to the steps provided in the section: [Creating SCEP Profile](#)

Home > Devices > win10\_2L\_gd\_scep >

### SCEP certificate

Windows 8.1 and later

1 Configuration settings 2 Review + save

Certificate type: Device

Subject name format \* ⓘ: CN={{AAD\_Device\_ID}}

Subject alternative name ⓘ

DNS: {{AAD\_Device\_ID}} [Add] [More]

Not configured

Certificate validity period \* ⓘ: Years 1

Key storage provider (KSP) \* ⓘ: Enroll to Software KSP

Key usage \* ⓘ: 2 selected

Key size (bits) \* ⓘ: 2048

Hash algorithm \* ⓘ: SHA-2

Root Certificate \* ⓘ

win10\_2L\_issuer [Add]

+ Root Certificate

**NOTE:** For Windows, if you select the **Certificate Type**: Device, then the Certificate will reside in the Certificates folder under Local computer.

## PKI Web Services Integration

This section explains the steps to integrate Intune using “**Generic Device Authentication for Intune**” certificate template via PKI Web Services.

For detailed steps, please refer below:

Step 1: [Generate a DigiCert Registration Authority Certificate](#)

Step 2: [Create a Certificate Profile in DigiCert PKI Platform](#) (Select the certificate template as “**Generic Device Authentication for Intune**”)

Step 3: [Set up the Microsoft Intune Connector](#)

Step 4: [Install and Configure the Microsoft Intune Connector](#)

Step 5: [Create a Trusted Certificate Profile in Microsoft Intune](#)

Step 6: [Create a PKCS Certificate Profile in Microsoft Intune](#)

Step 7: [Assign Profiles for Android/iOS/Windows](#)

## Integrate Intune MDM Solution for S/MIME (signing only)

This section of the guide explains the steps to integrate Intune using “**S/MIME (Digital Signature only) for Intune**” certificate template for SCEP and PKI Web Services.

### SCEP Integration

To integrate Intune using “**S/MIME (Digital Signature only) for Intune**” certificate template via SCEP, follow the below steps:

Step 1: [Register the Client Application](#)

Step 2: [Create a SCEP URL.](#)

Step 3: [Configure Intune](#)

Profile -1: [Create “Trusted Certificate” Profile](#)

Profile -2: [Create SCEP Profile](#)

### PKI Web Services Integration

This section explains the steps to integrate Intune using “**S/MIME (Digital Signature only) for Intune**” certificate template via PKI Web Services.

For detailed steps, please refer below:

Step 1: [Generate a DigiCert Registration Authority Certificate](#)

Step 2: [Create a Certificate Profile in DigiCert PKI Platform](#) (Select the certificate template as “**S/MIME (Digital Signature only) for Intune**”)

Step 3: [Set up the Microsoft Intune Connector](#)

Step 4: [Install and Configure the Microsoft Intune Connector](#)

Step 5: [Create a Trusted Certificate Profile in Microsoft Intune](#)

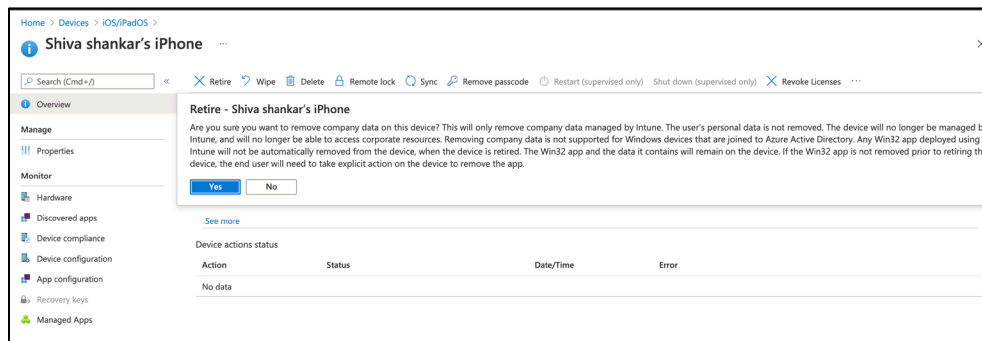
Step 6: [Create a PKCS Certificate Profile in Microsoft Intune](#)

Step 7: [Assign Profiles for Android/iOS/Windows](#)

## Revocation of Certificates in Intune

Certificates can be revoked in various ways. This section details the steps for one of the possible revocation flows (e.g. 'retiring a device') initiated by Intune Administrators:

1. Login to <https://endpoint.microsoft.com/>
2. Navigate to **Devices > All devices**
3. Click on the target device and click on the **Retire** action:



4. Click **Yes** on the confirmation dialog which initiates the retire process.
5. All the certificates bound to that device will be added to the revocation list by Intune.
6. DigiCert PKI Platform will fetch the revocation list for all the tenants at a frequent interval, as part of an asynchronous process, which will revoke all the certificates from the retrieved list.

The updated status of the certificate will be available via DigiCert's validation services (CRL/OCSP), once the revocation process is complete.

## Appendix

The below sections are applicable to both the Web Services and SCEP integration.

### Appendix-A. Generating a DigiCert Registration Authority Certificate using OpenSSL

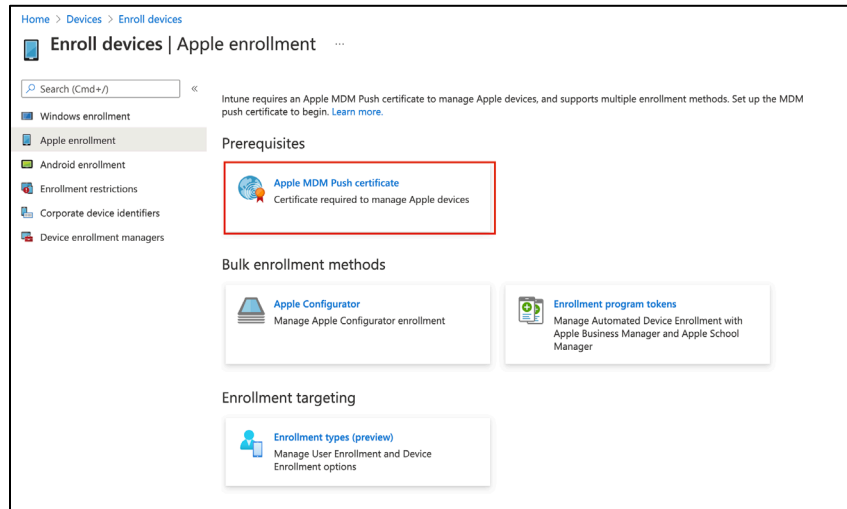
Intune acts as a Registration Authority while requesting for certificates for DigiCert PKI Platform. To configure Intune as a Registration Authority (RA), you must generate a DigiCert Registration Authority Certificate.

Follow the steps to generate the DigiCert RA certificate:

1. `openssl req -new -newkey rsa:2048 -nodes -keyout priv.key -out request.csr`
2. Log in to DigiCert PKI Manager.
3. In the **PKI Manager** dashboard, click the **Tasks** icon and select **Get an RA Certificate**.
4. Paste the content from the CSR you created earlier.
5. Specify a certificate friendly name and click **Continue**.
6. Click **Download** and download the RA certificate (RA-Certificate.p7b).
7. `openssl pkcs7 -print_certs -in RA-Certificate.p7b -out certfile.cer`
8. `openssl pkcs12 -export -out RA-Cert.pfx -inkey priv.key -in certfile.cer`.

## Appendix-B. Apple Enrollment for iOS

1. If not already associated with the Apple certificate for your Apple id, Login to <https://endpoint.microsoft.com/> and Choose Devices > Enroll devices > Apple enrollment (for iPhone).
2. Click on "Apple MDM Push Certificate".



3. If you have already configured an Apple id for use, it will show the details on this page. Otherwise, proceed to download the CSR and then click the "Create your MDM push certificate" link.

**Configure MDM Push Certificate**

Delete

Status: ✔ Active  
Last Updated: 12/29/2018  
Apple ID: suryakarthik.kumar@yahoo.com  
Days Until Expiration: 340  
Expiration: 12/29/2019  
Subject ID: com.apple.mgmt.External.834ce223-6b3f-...

You need an Apple MDM push certificate to manage Apple devices with Intune.

**Steps:**

1. I grant Microsoft permission to send both user and device information to Apple. [More information.](#)  
 \* I agree.
2. Download the Intune certificate signing request required to create an Apple MDM push certificate.  
[Download your CSR](#)
3. Create an Apple MDM push certificate. [More information.](#)  
[Create your MDM push Certificate](#)
4. Enter the Apple ID used to create your Apple MDM push certificate.  
\* Apple ID

4. Clicking on "Create your MDM push certificate" will take you to an Apple login screen where you need to login with your Apple ID and password.

**Apple Push Certificates Portal**

Sign In.

Apple ID

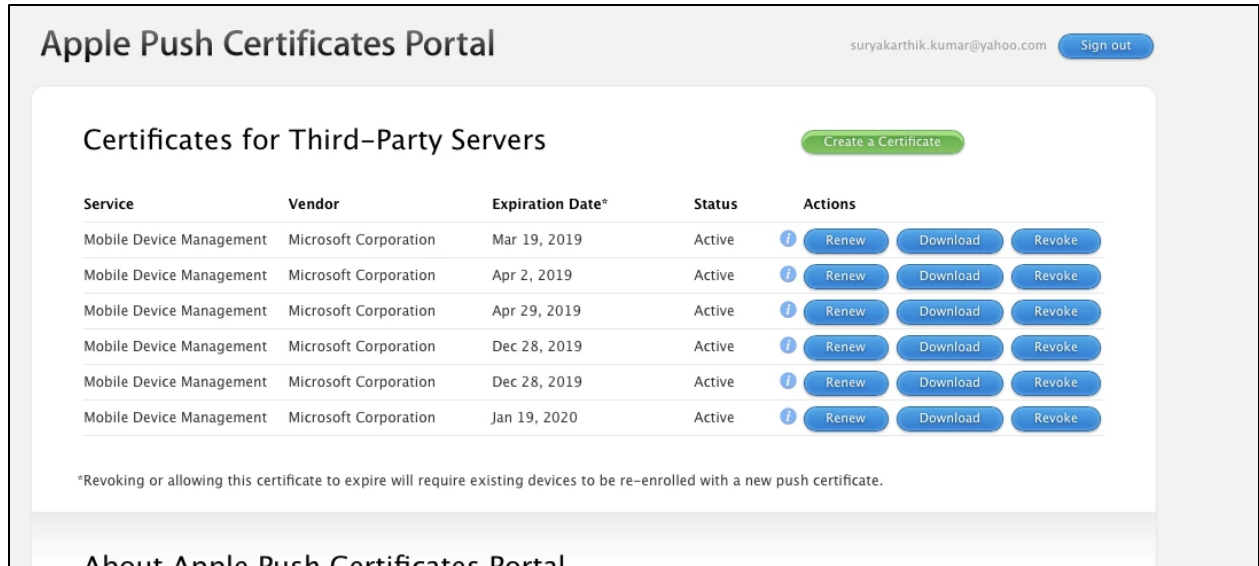
[Forgot your Apple ID?](#)

Password

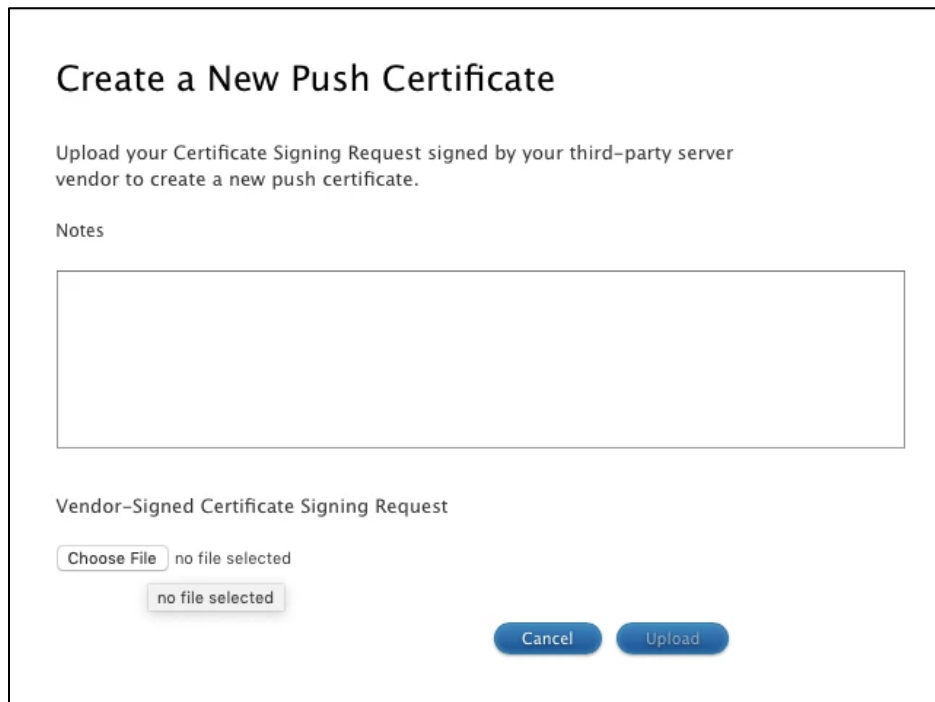
[Forgot your password?](#)

Sign In

5. Once logged in, click on "Create certificate".

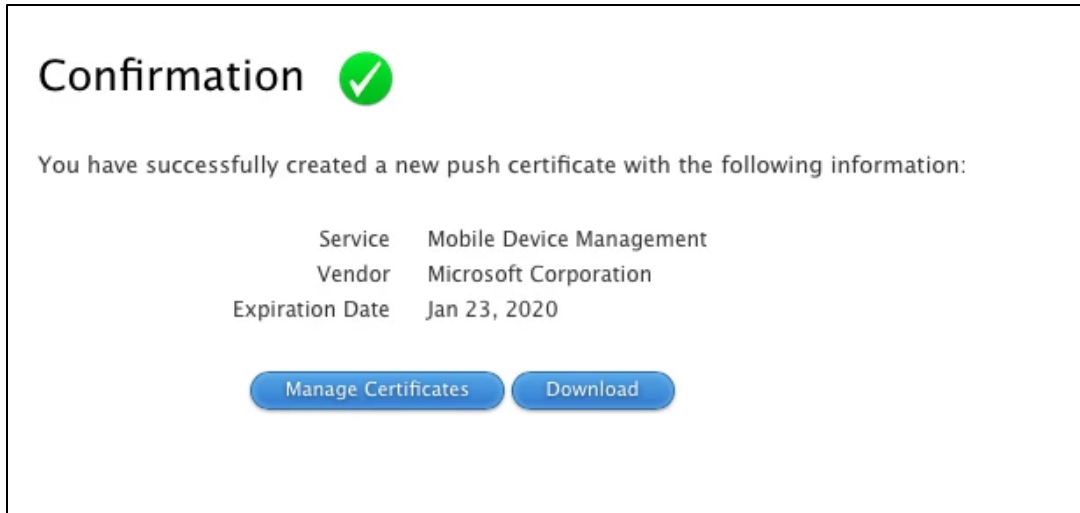


- Click on **Choose File** and select the Intune CSR that you downloaded above from the Azure portal and click **Upload**.




- Download the generated certificate.







8. Once certificate is downloaded, return to the **Configure Apple MDM push certificate** page on Azure Portal.

**Configure MDM Push Certificate**

 Delete

1. I grant Microsoft permission to send both user and device information to Apple. [More information.](#)  
 \* I agree.
2. Download the Intune certificate signing request required to create an Apple MDM push certificate.  
[Download your CSR](#)
3. Create an Apple MDM push certificate. [More information.](#)  
[Create your MDM push Certificate](#) 
4. Enter the Apple ID used to create your Apple MDM push certificate.  
\* Apple ID
5. Browse to your Apple MDM push certificate to upload  
\* Apple MDM push certificate  
 

9. Provide your Apple ID and upload the downloaded MDM push certificate and click on **Upload**.

**NOTE:** Please note that for Android, the conventional Android option can be chosen if enterprise management such as Work Profile Configuration is not needed. If a specific Work Profile is needed, the “**Android Enterprise**” option needs to be selected from the platform while creating profile in Intune.

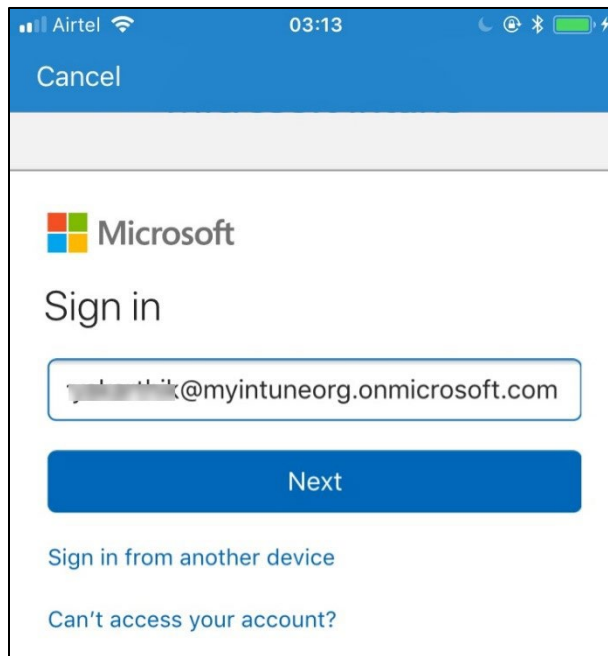
For simplicity, the conventional “**Android**” option is used for this guide.

## Appendix-C. Install Company Portal App on Device

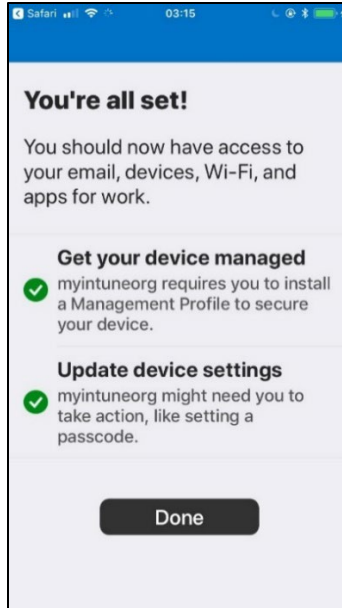
### Configuration on the Android/iOS device

To configure the Android/iOS device and enroll with the MDM:

1. Download the application “**Intune company portal app**” provided by Microsoft Intune from the Play Store/ App Store and install it.
2. Once the application is installed, open the application and login with Intune credentials.



3. Once logged in, on the setup page, proceed with the default option to install the profile and generate the certificate.

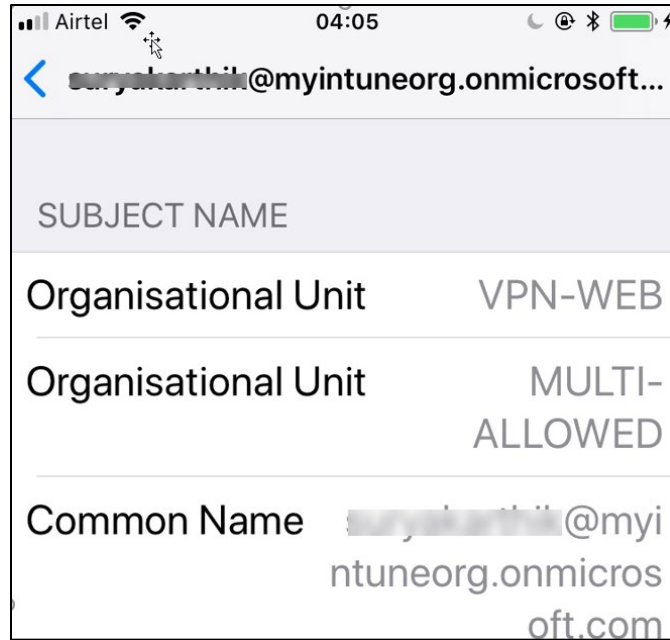


**NOTE:** For Android device, there is no direct way to view and verify the certificate. For this, a third-party app “**My Certificates**” needs to be downloaded from the Play Store.

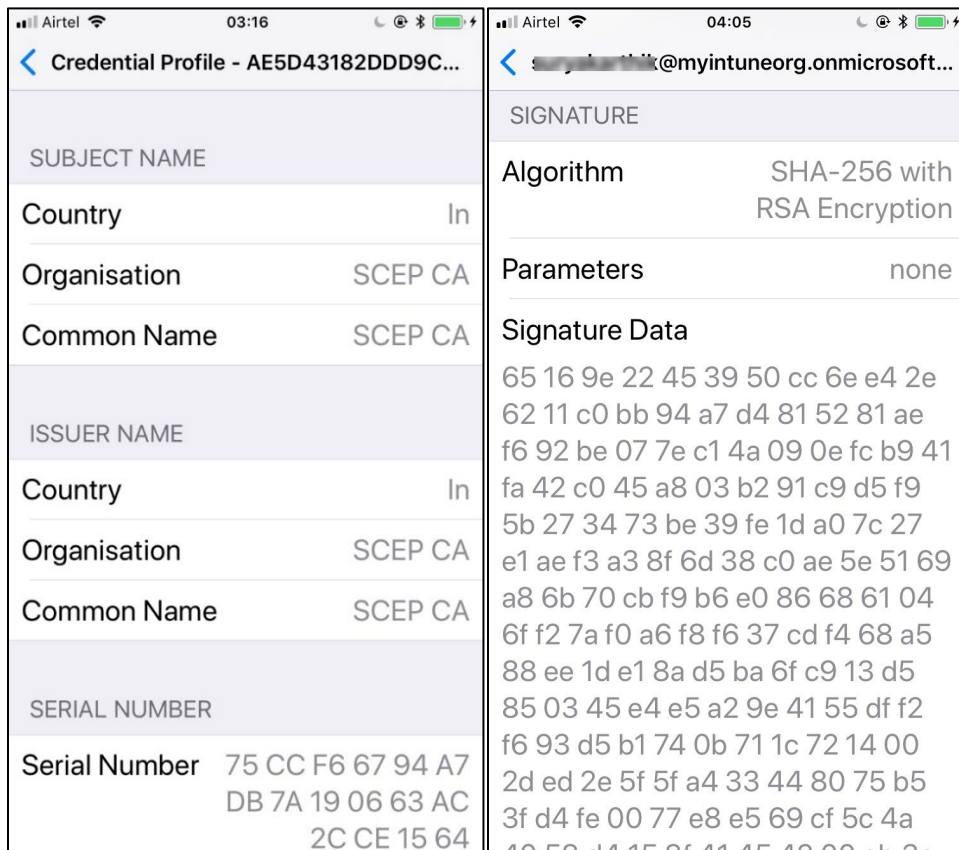
4. Once the application is configured and the enrolled with the MDM, Intune will push the assigned certificates to the device.
5. For Android, navigate to **Trusted Certificate** to view the certificate details.
6. For iOS, you can navigate to -> **Settings** -> **General** -> **Device Management** and see the details as below:



Certificate details in iOS



Subject Name



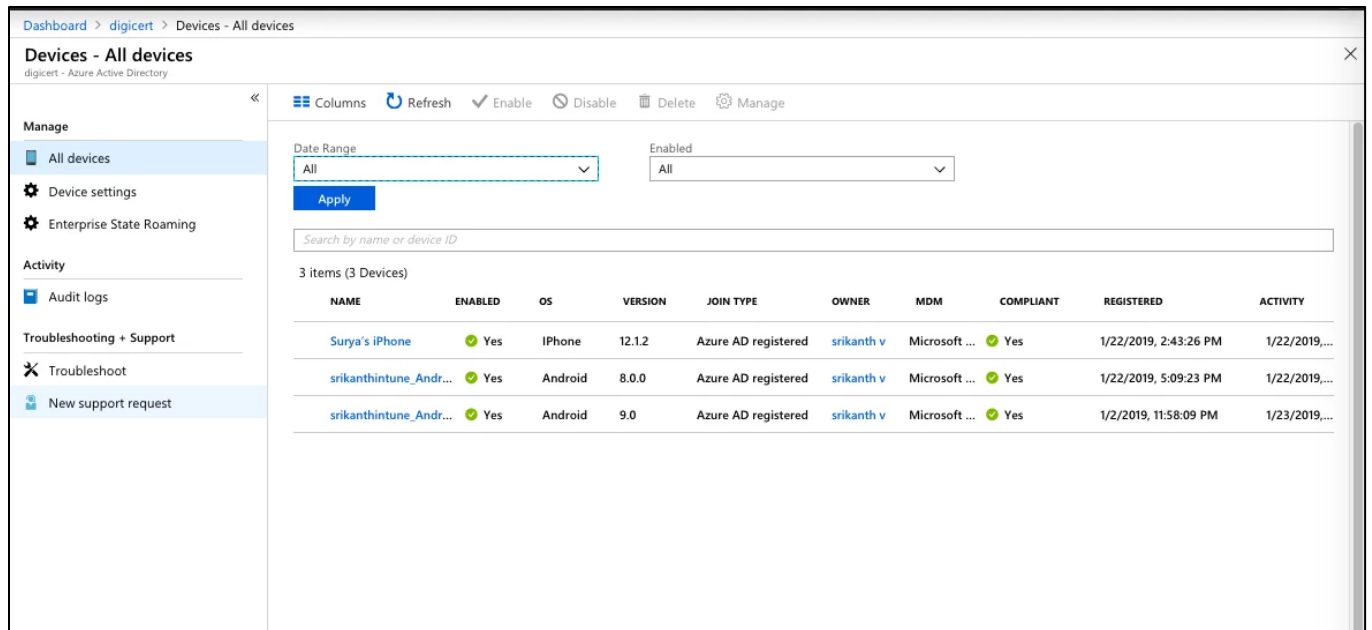
Credential Profile

Signature details

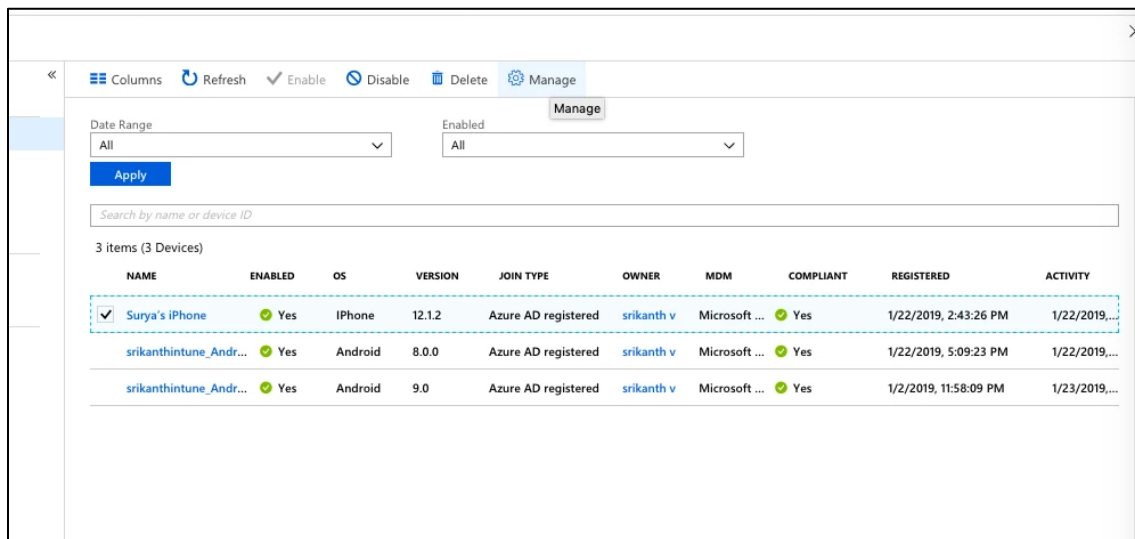
## Appendix-D. Deployment of profiles to the devices

Profiles can be deployed to the devices using the following steps:

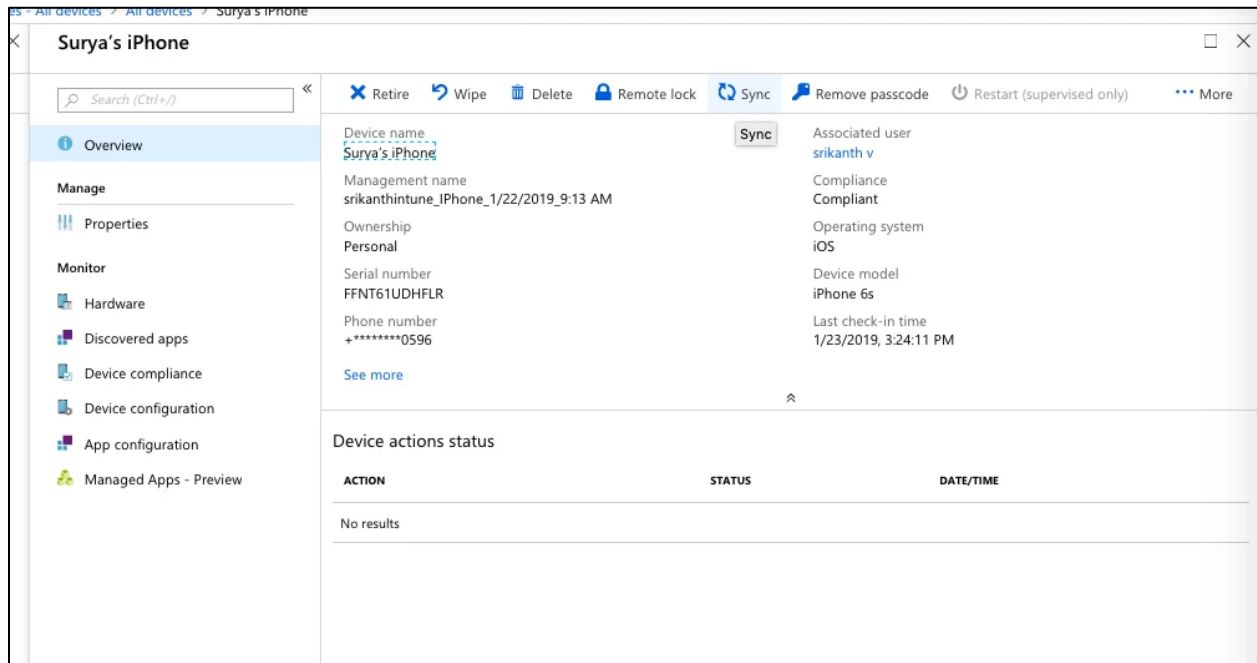
- On the device, install the Company portal App application (for iOS and Android) and login to the application using the Intune credentials. Once you are logged in to the Company Portal App, the device will be registered with Intune and mobile management profiles will be installed to the device.
- On the Azure portal, navigate to "Azure Active Directory" and click on "Devices".



- Select a device you would like to manage and click on "Manage".



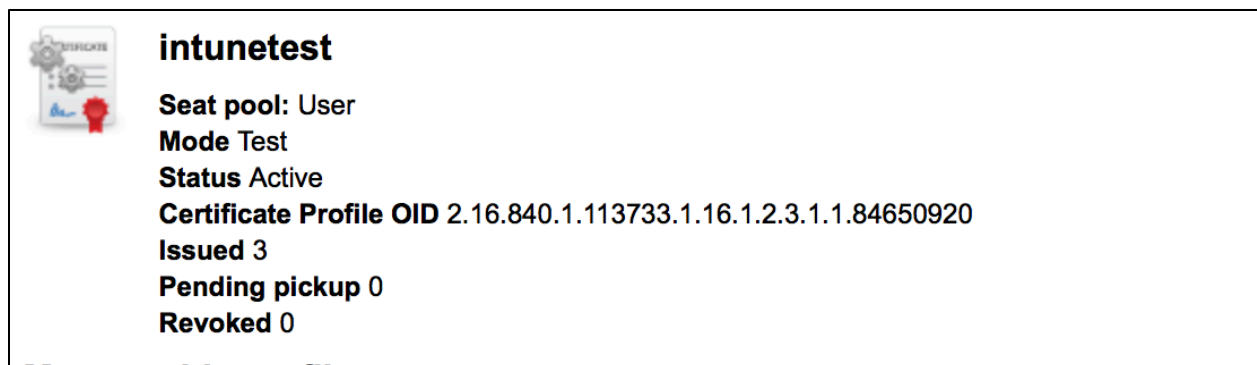
d) Click on "Sync" and this will Sync the device with the settings configured.



e) Once the Sync is initiated, certificate profile settings will be installed to the device, the device will call out to the SCEP CA for certificate issuance, and a certificate will be installed on the device.

## Appendix-E. Verify Certificate Issuance details in DigiCert PKI Platform

The certificate issuance can also be verified from the DigiCert PKI Platform. If you go to the "Manage Certificate profile" section and select the profile that you created, you can see the total number of certificates issued for that profile.



You can also go to the “Certificate Management” section on the PKI manager and search for that profile to see the certificate details as follows:

The screenshot displays the 'Manage certificates' interface. On the left, a list of four certificates is shown. The third certificate, with ID 'c316d167-2903-4632-a0cc...', is selected and highlighted in yellow. The right pane shows the details for this certificate, including its authority (SCEP CA), validity dates (Apr 30, 2018 to Apr 30, 2019), subject DN, serial number, and profile name (intunetest).

4 certificates found	Certificate actions
<ul style="list-style-type: none"><li>351946e1-9010-4a08-ac58... @TESTDIGIINTUNE... Valid</li><li>351946e1-9010-4a08-ac58... @TESTDIGIINTUNE... Valid</li><li><b>c316d167-2903-4632-a0cc...</b> @MYINT... Valid</li><li>c316d167-2903-4632-a0cc... @MYINT... Valid</li></ul>	<ul style="list-style-type: none"><li>Revoke certificate</li><li>Download certificate</li></ul>

**Certificate details**

**Seat ID :** c316d167-2903-4632-a0cc-9cd1660098db  
**Status :** Valid

**Certificate Authority:**  
SCEP CA

**Issued to:**  
[Redacted]

**Valid from:**  
Apr 30, 2018 12:00:00 AM

**Expires on:**  
Apr 30, 2019 11:59:59 PM

**Subject DN:**  
CN=[Redacted], OU=MULTI-ALLOWED, OU=VPN-WEB

**Serial number:**  
63ca96770382e4e917ed590379bc1418

**Certificate profile:**  
intunetest

**Seat pool:**  
User