IdP Setup: Microsoft Entra ID (Azure)

What

Before we can use AzureAD for authentication from FileWave, we must create a new application in the Azure Portal and give FileWave access to it. The whole purpose of this configuration is to give FileWave permissions to talk to your Microsoft Entra ID environment.

When/Why

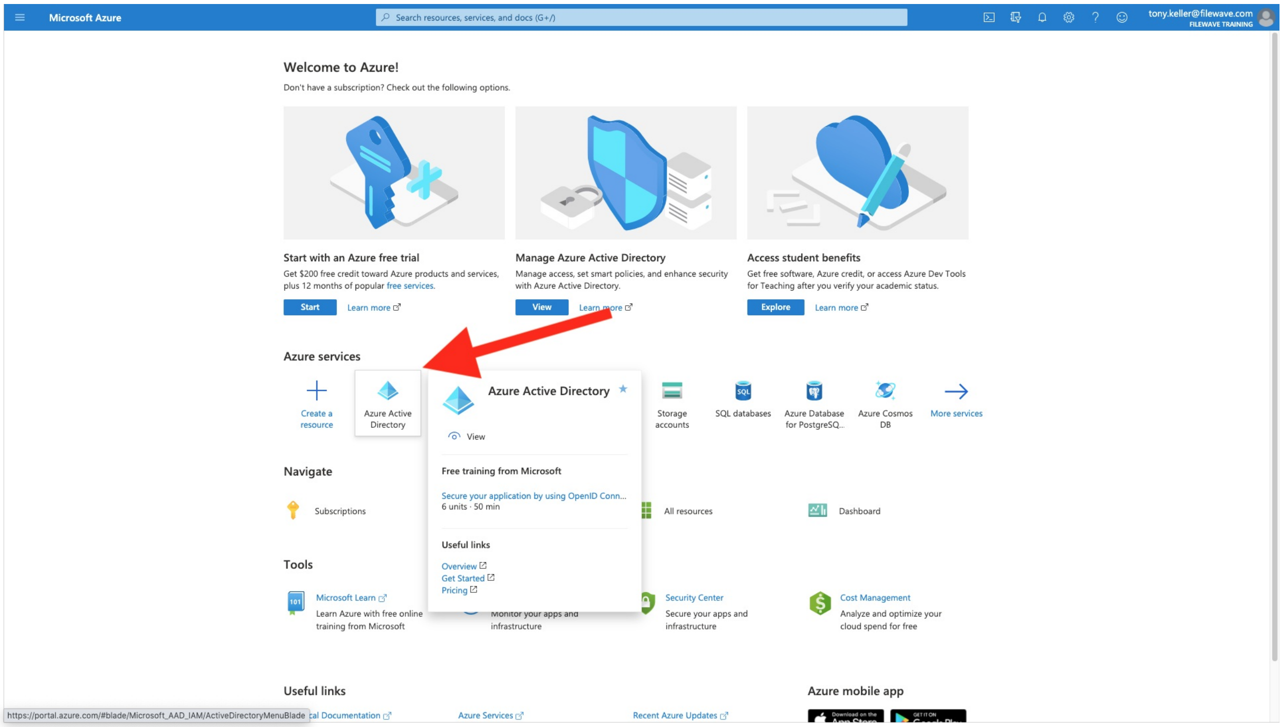
This configuration is required if you want to use AzureAD for authentication during device enrollment or during login to the FileWave Web and Native administrator consoles.

How

The configuration for access is all driven through an Microsoft Entra ID application, so we need to start with:

Part 1: Login to Microsoft Entra ID Portal

First, we'll login to Microsoft Entra ID at portal.azure.com with an administrator's account and click on Microsoft Entra ID as shown: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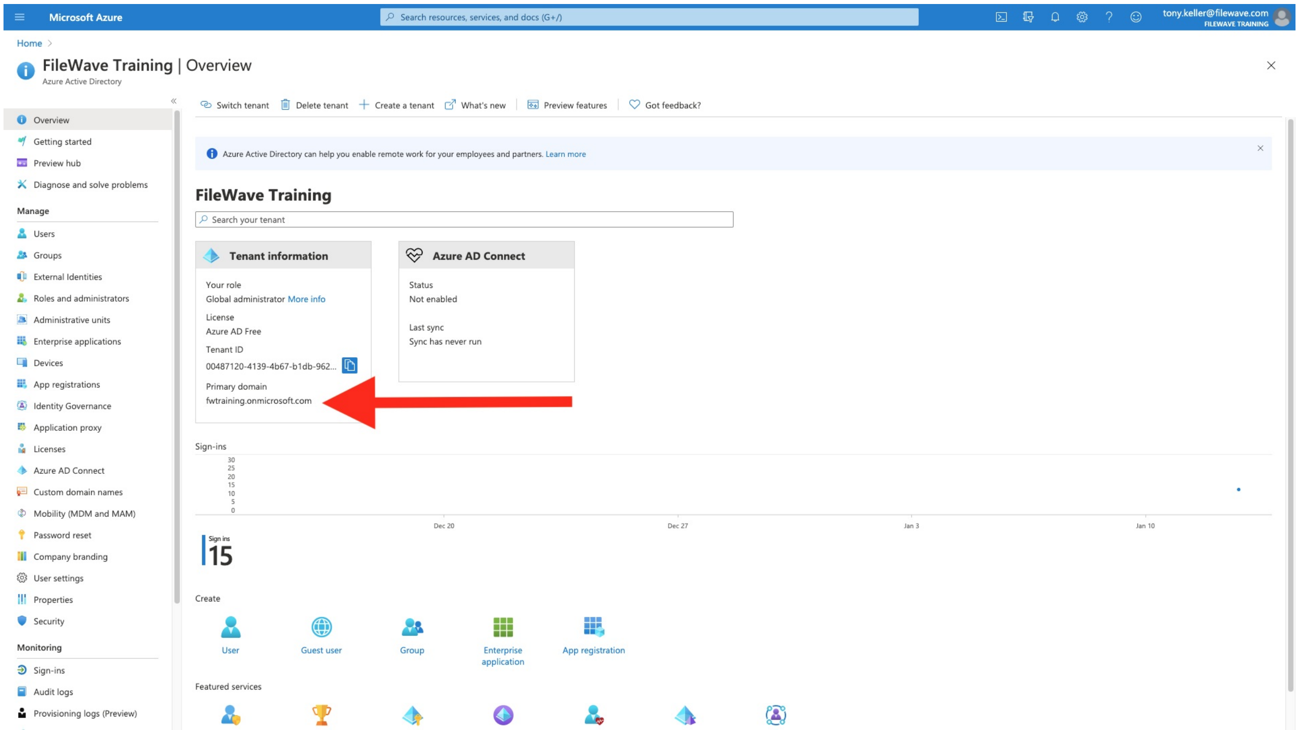
Create a resource
Azure Active Directory
Azure Active Directory
View
Free training from Microsoft
Secure your application by using OpenID Conn...
6 units · 50 min
Useful links
Overview
Get Started
Pricing
Storage accounts
SQL databases
Azure Database for PostgreSQ...
Azure Cosmos DB
More services
Navigate
Subscriptions
All resources
Dashboard
Tools
Microsoft Learn
Learn Azure with free online training from Microsoft
Monitor your apps and infrastructure
Security Center
Secure your apps and infrastructure
Cost Management
Analyze and optimize your cloud spend for free
Useful links
Azure mobile app
https://portal.azure.com/#blade/Microsoft_AAD_IAM/ActiveDirectoryMenuBlade
cal Documentation
Azure Services
Recent Azure Updates

And make note of the domain info shown below:



Azure Active Directory can help you enable remote work for your employees and partners. Learn more

FileWave Training

Search your tenant

Tenant information

Your role
Global administrator More info

License
Azure AD Free

Tenant ID
00487120-4139-4b67-b1db-962...

Primary domain
fwtraining.onmicrosoft.com

Azure AD Connect

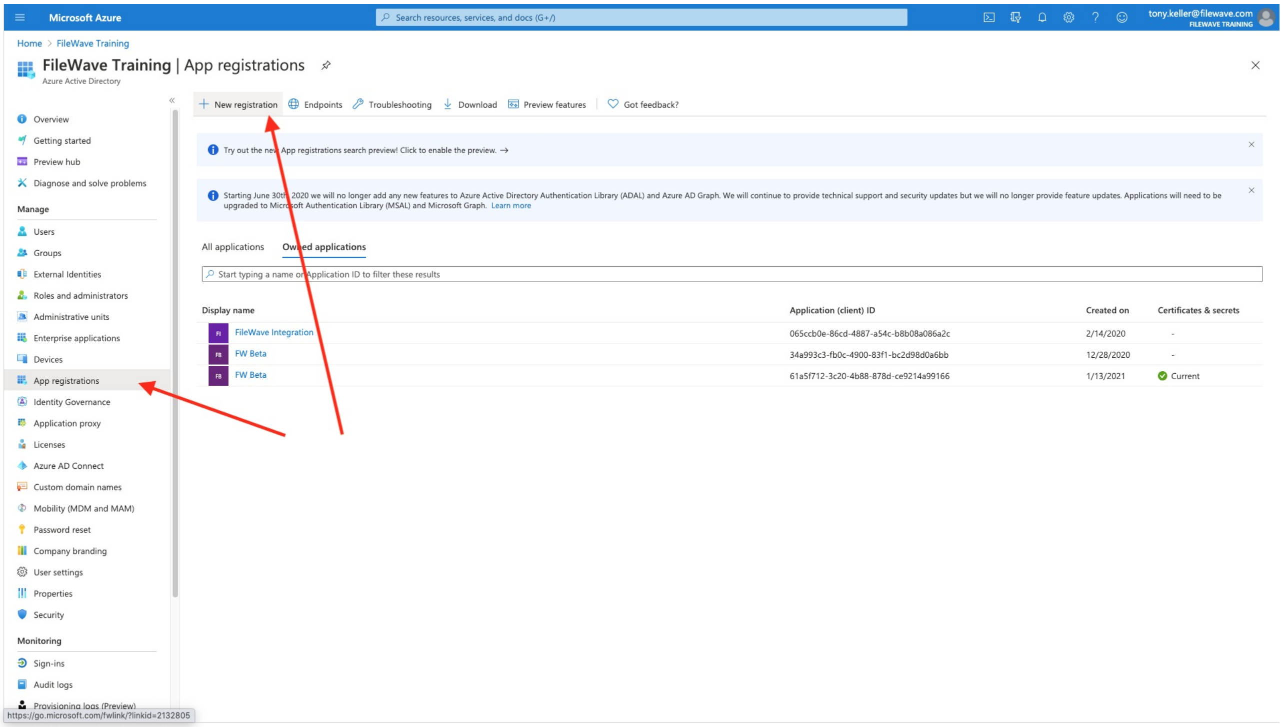
Status
Not enabled

Last sync
Sync has never run

It is a good idea to take all of these elements and label/paste them into a document you store securely.   Although we'll use them to configure FileWave, you can't access many of them from FileWave once they are stored.

Part 2: Create an App

Now we have to create an app for FileWave to talk to, and assign some right to it. First go to the app registrations menu, then click "new registration":



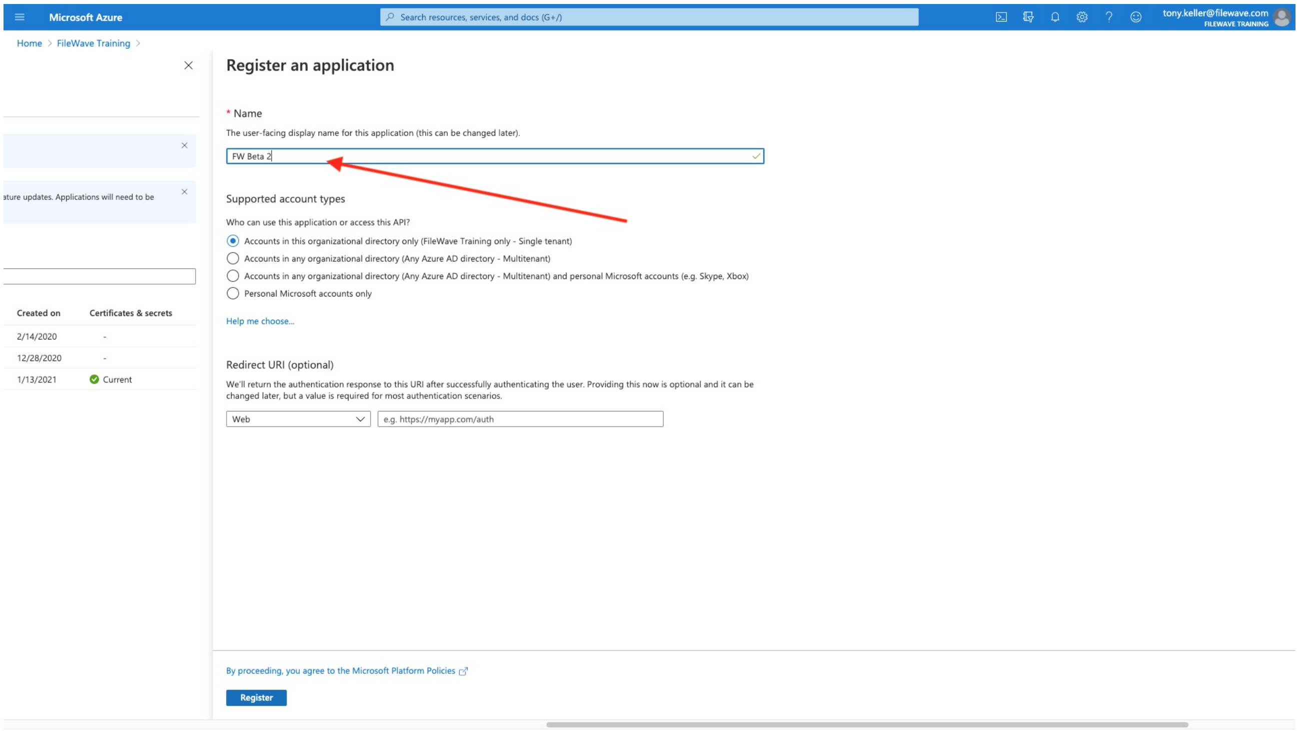
Try out the new App registrations search preview! Click to enable the preview. →

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical support and security updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more

Start typing a name or Application ID to filter these results

Display name	Application (client) ID	Created on	Certificates & secrets
FI FileWave Integration	065ccb0e-86cd-4887-a54c-b8b08a086a2c	2/14/2020	-
FB FW Beta	34a993c3-fb0c-4900-83f1-bc2d98d0a6bb	12/28/2020	-
FB FW Beta	61a5f712-3c20-4b88-878d-ce9214a99166	1/13/2021	✓ Current

Specify a name for your app that is meaningful to you, and Register the app (we'll set the login URIs later).



Microsoft Azure

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ature updates. Applications will need to be

Created on	Certificates & secrets
2/14/2020	-
12/28/2020	-
1/13/2021	✓ Current

Register an application

* Name

The user-facing display name for this application (this can be changed later).

FW Beta 2

Supported account types

Who can use this application or access this API?

- ● Accounts in this organizational directory only (FileWave Training only - Single tenant)
- ○ Accounts in any organizational directory (Any Azure AD directory - Multitenant)
- ○ Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
- ○ Personal Microsoft accounts only

Help me choose...

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

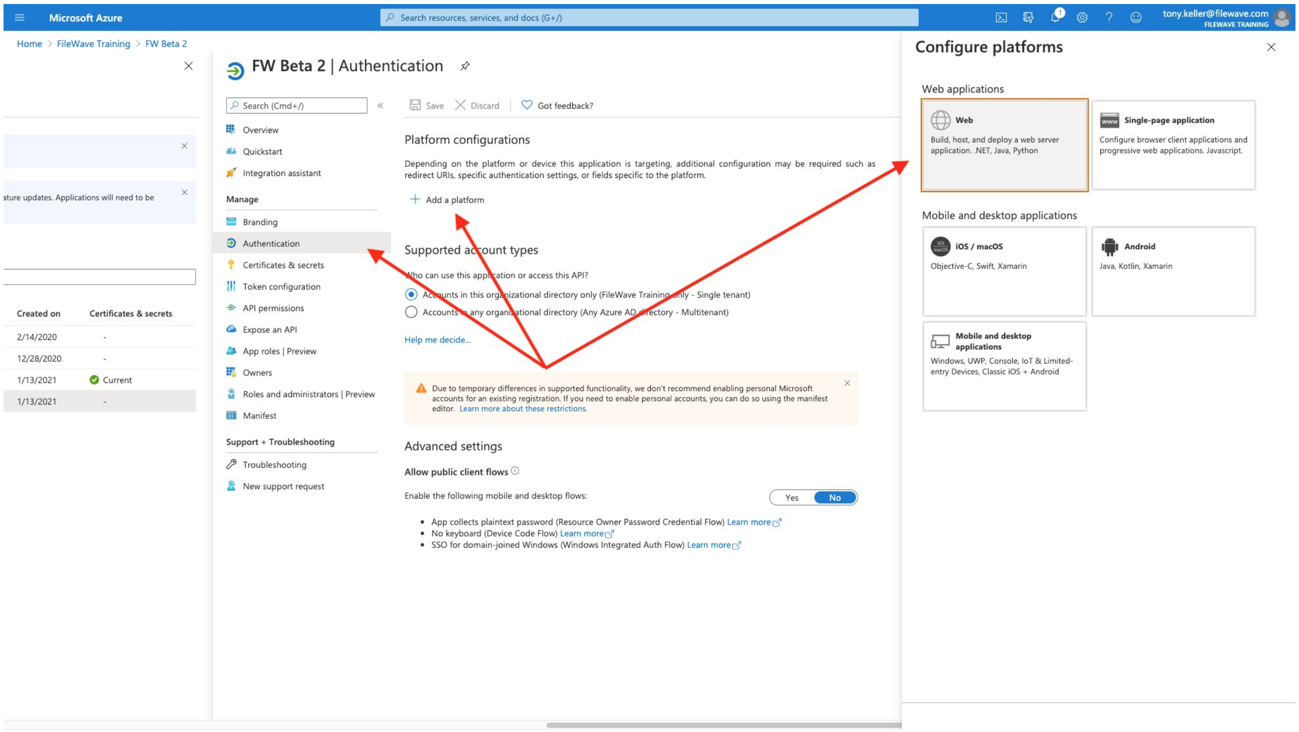
Web | e.g. https://myapp.com/auth

By proceeding, you agree to the Microsoft Platform Policies

Register

Part 3: Add a Platform and URI Addresses

Within the app configuration, we'll choose Authentication, then Add a Platform, of type Web:



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ature updates. Applications will need to be

Created on	Certificates & secrets
2/14/2020	-
12/28/2020	-
1/13/2021	✓ Current
1/13/2021	-

FW Beta 2 | Authentication

Platform configurations

Depending on the platform or device this application is targeting, additional configuration may be required such as redirect URIs, specific authentication settings, or fields specific to the platform.

+ Add a platform

Supported account types

Who can use this application or access this API?

- ● Accounts in this organizational directory only (FileWave Training only - Single tenant)
- ○ Accounts in any organizational directory (Any Azure AD directory - Multitenant)

Help me decide...

⚠ Due to temporary differences in supported functionality, we don't recommend enabling personal Microsoft accounts for an existing registration. If you need to enable personal accounts, you can do so using the manifest editor. Learn more about these restrictions.

Advanced settings

Allow public client flows

Enable the following mobile and desktop flows: Yes [✓ No]

- App collects plaintext password (Resource Owner Password Credential Flow) Learn more
- No keyboard (Device Code Flow) Learn more
- SSO for domain-joined Windows (Windows Integrated Auth Flow) Learn more

Configure platforms

Web applications

Web
Build, host, and deploy a web server application. .NET, Java, Python

Single-page application
Configure browser client applications and progressive web applications. Javascript.

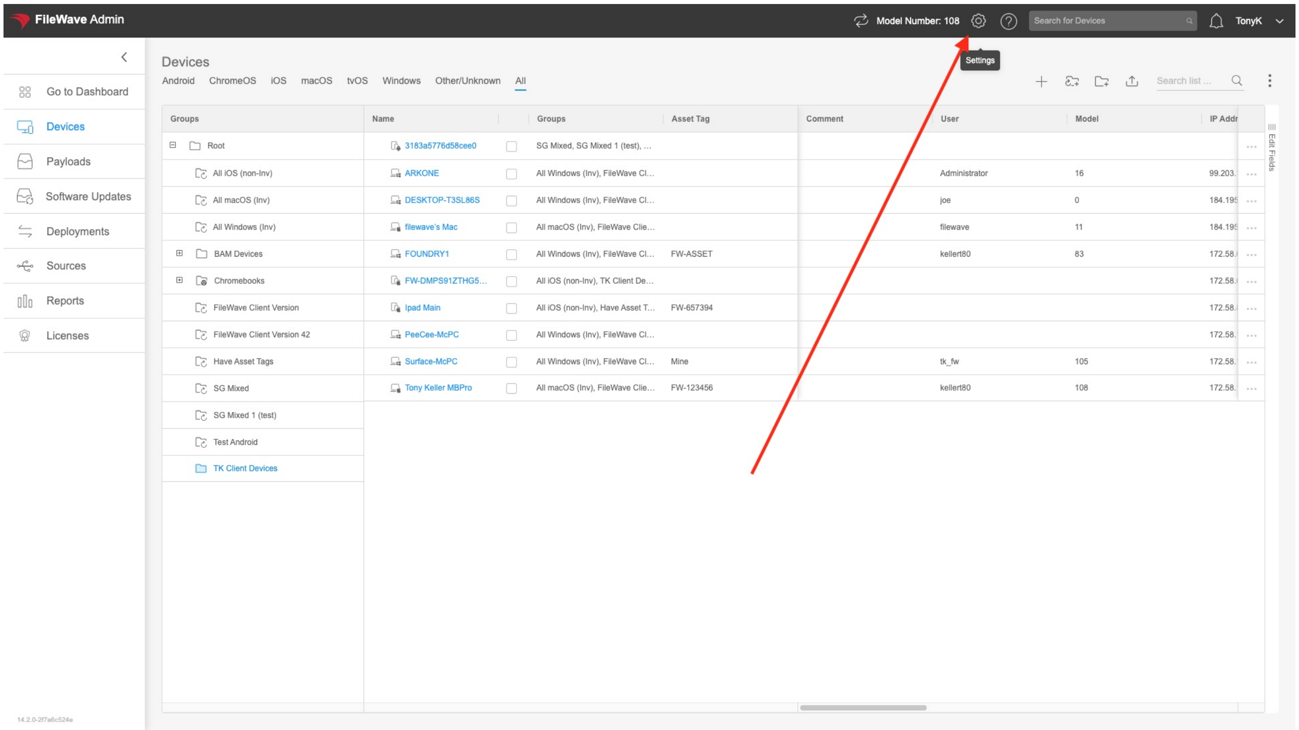
Mobile and desktop applications

iOS / macOS
Objective-C, Swift, Xamarin

Android
Java, Kotlin, Xamarin

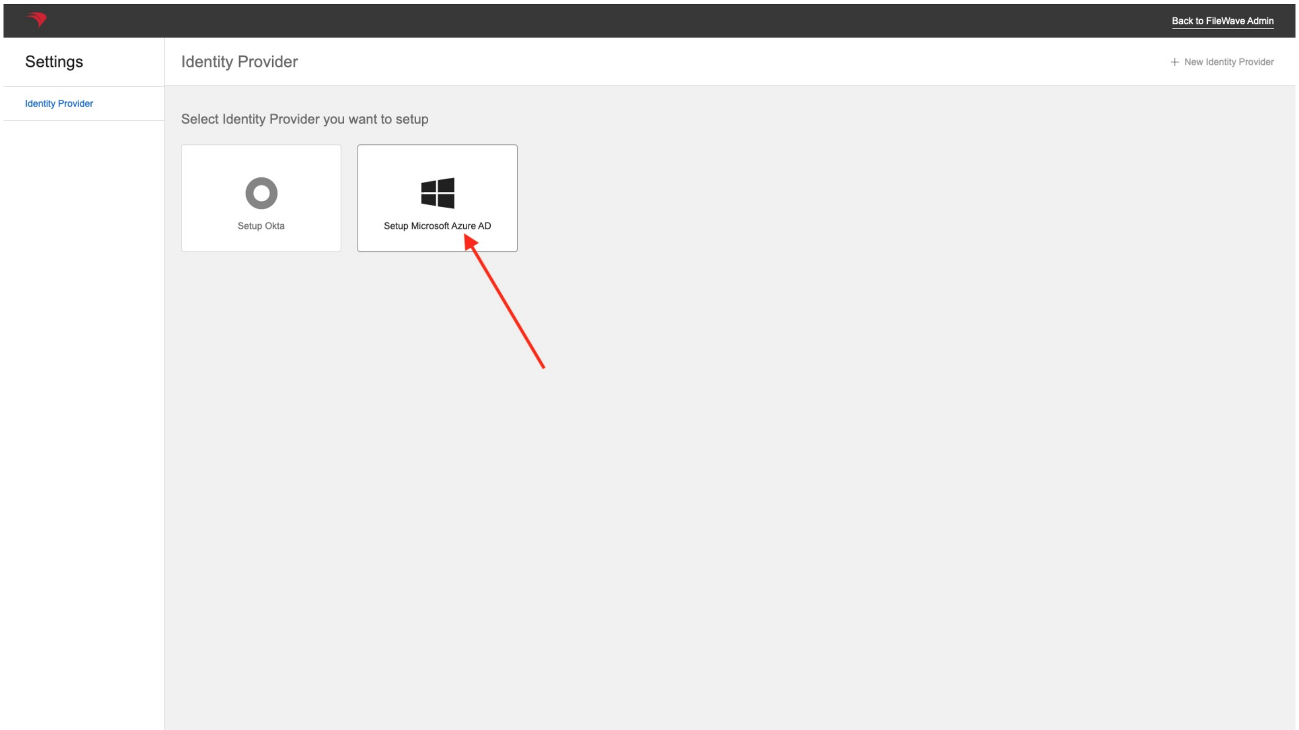
Mobile and desktop applications
Windows, UWP, Console, IoT & Limited-entry Devices, Classic iOS + Android

And for the web configuration, we'll need to copy some address from your FileWave server. You'll get them from the WebAdmin, Settings:, New AzureAD IDP, and then Get URLs as shown



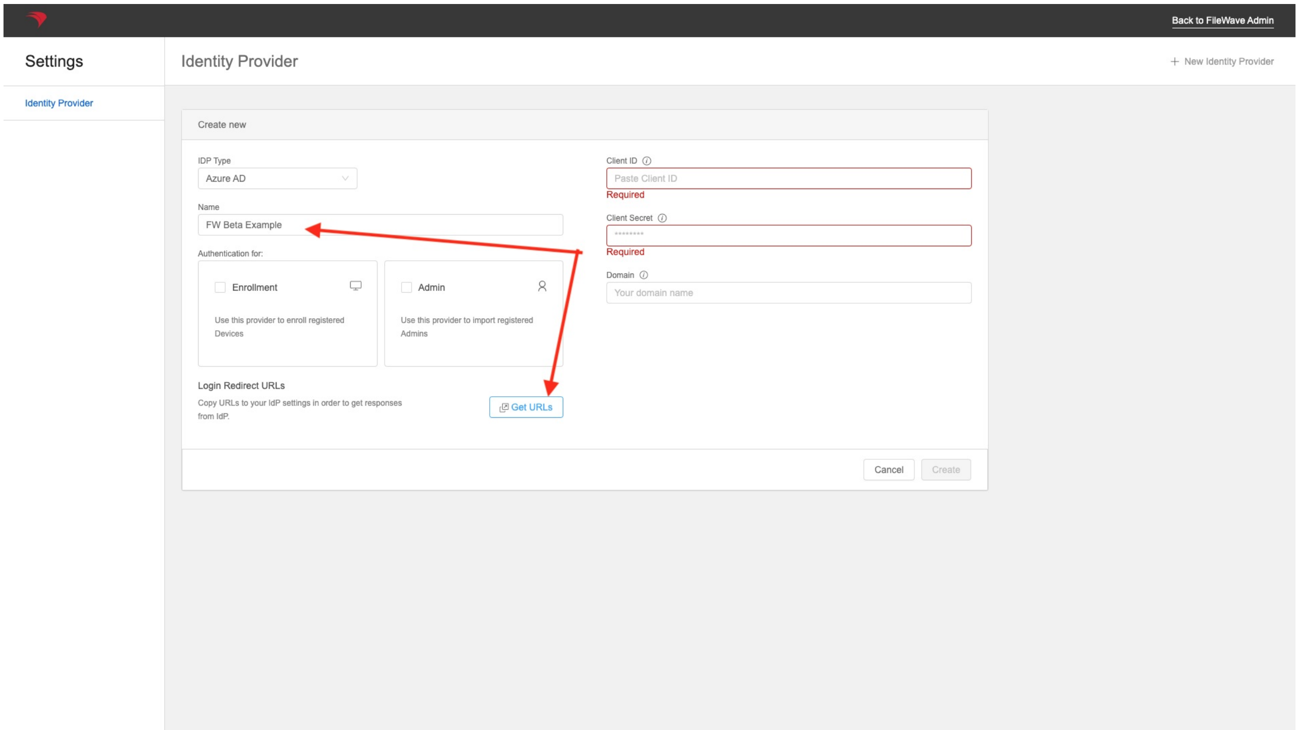
Name	Groups	Asset Tag	Comment	User	Model	IP Addr
3183a5776d58cee0	SG Mixed, SG Mixed 1 (test), ...					
ARKONE	All Windows (Inv), FileWave Cl...			Administrator	16	99.203.
DESKTOP-T3SL86S	All Windows (Inv), FileWave Cl...			joe	0	184.195
filewave's Mac	All macOS (Inv), FileWave Clie...			filewave	11	184.195
FOUNDRY1	All Windows (Inv), FileWave Cl...	FW-ASSET		kellert80	83	172.58.
FW-DMPS91ZTHG5...	All iOS (non-Inv), TK Client De...					172.58.
Ipad Main	All iOS (non-Inv), Have Asset T...	FW-657394				172.58.
PeeCee-McPC	All Windows (Inv), FileWave Cl...					172.58.
Surface-McPC	All Windows (Inv), FileWave Cl...	Mine		tk_fw	105	172.58.
Tony Keller MBPro	All macOS (Inv), FileWave Clie...	FW-123456		kellert80	108	172.58.

Then choose an Microsoft Entra ID IDP Provider



Select Identity Provider you want to setup

You can add a name now (or later), but you'll get the URLs from the "Get URLs" button:



Create new

IDP Type: Azure AD

Name: FW Beta Example

Authentication for:

□ Enrollment – Use this provider to enroll registered Devices

□ Admin – Use this provider to import registered Admins

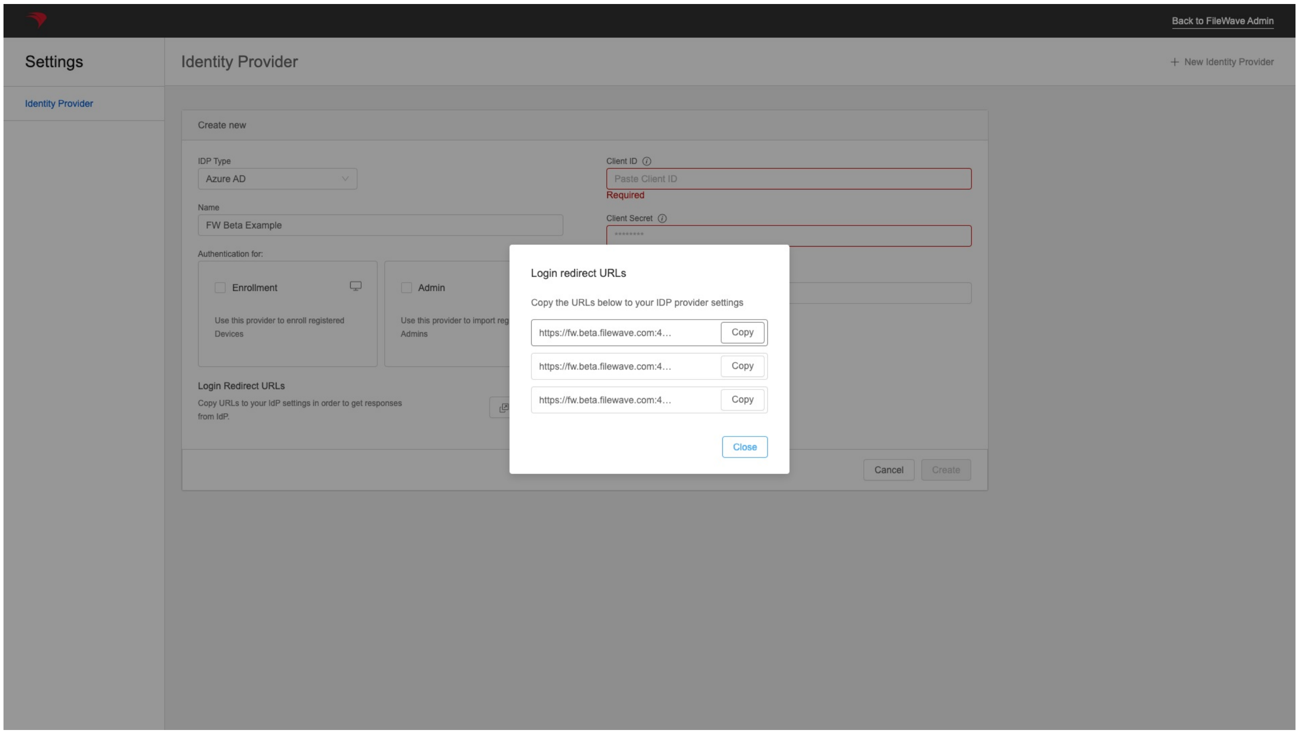
Login Redirect URLs

Copy URLs to your IdP settings in order to get responses from IdP.

Client ID: Paste Client ID
Required

Client Secret: ********
Required

Domain: Your domain name



Login redirect URLs

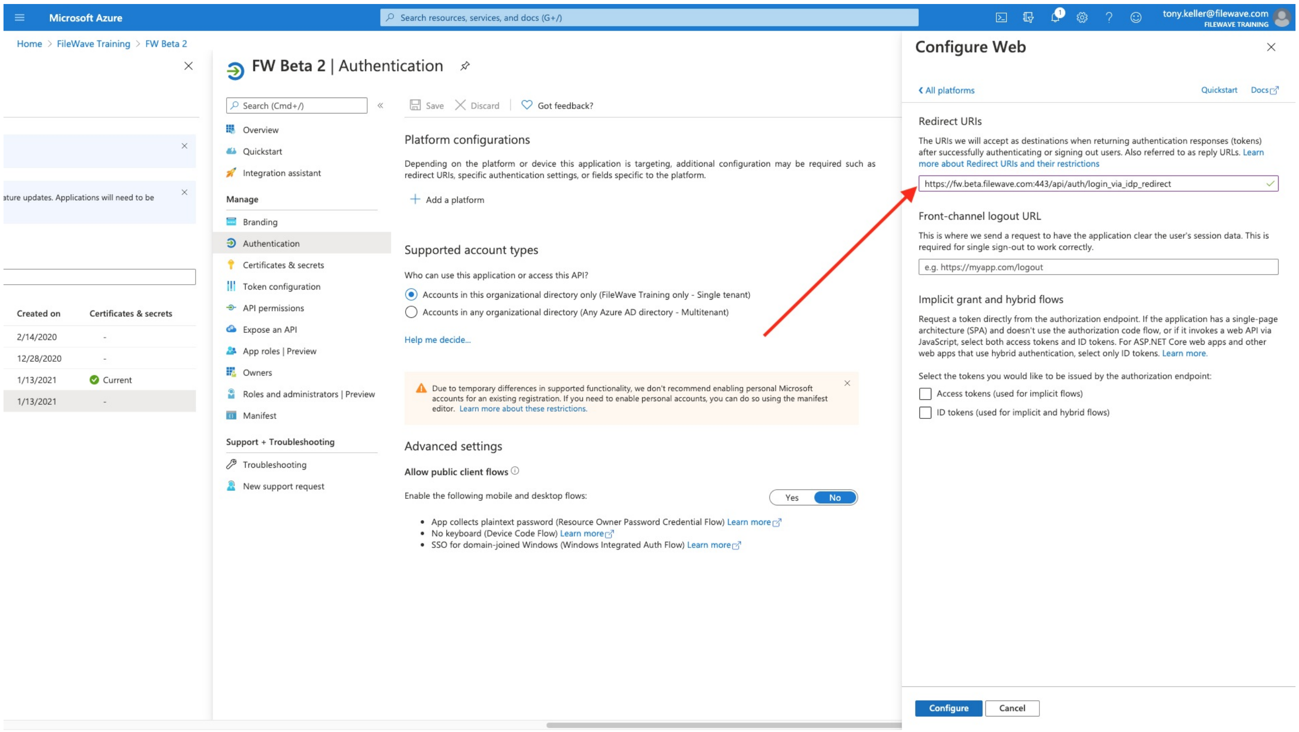
Copy the URLs below to your IDP provider settings

https://fw.beta.filewave.com:4…

https://fw.beta.filewave.com:4…

https://fw.beta.filewave.com:4…

So now we'll enter one of the redirects, and click configure:



Platform configurations

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- SSO for domain-joined Windows (Windows Integrated Auth Flow) Learn more

Redirect URIs

The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out users. Also referred to as reply URLs. Learn more about Redirect URIs and their restrictions

https://fw.beta.filewave.com:443/api/auth/login_via_idp_redirect

Front-channel logout URL

This is where we send a request to have the application clear the user's session data. This is required for single sign-out to work correctly.

e.g. https://myapp.com/logout

Implicit grant and hybrid flows

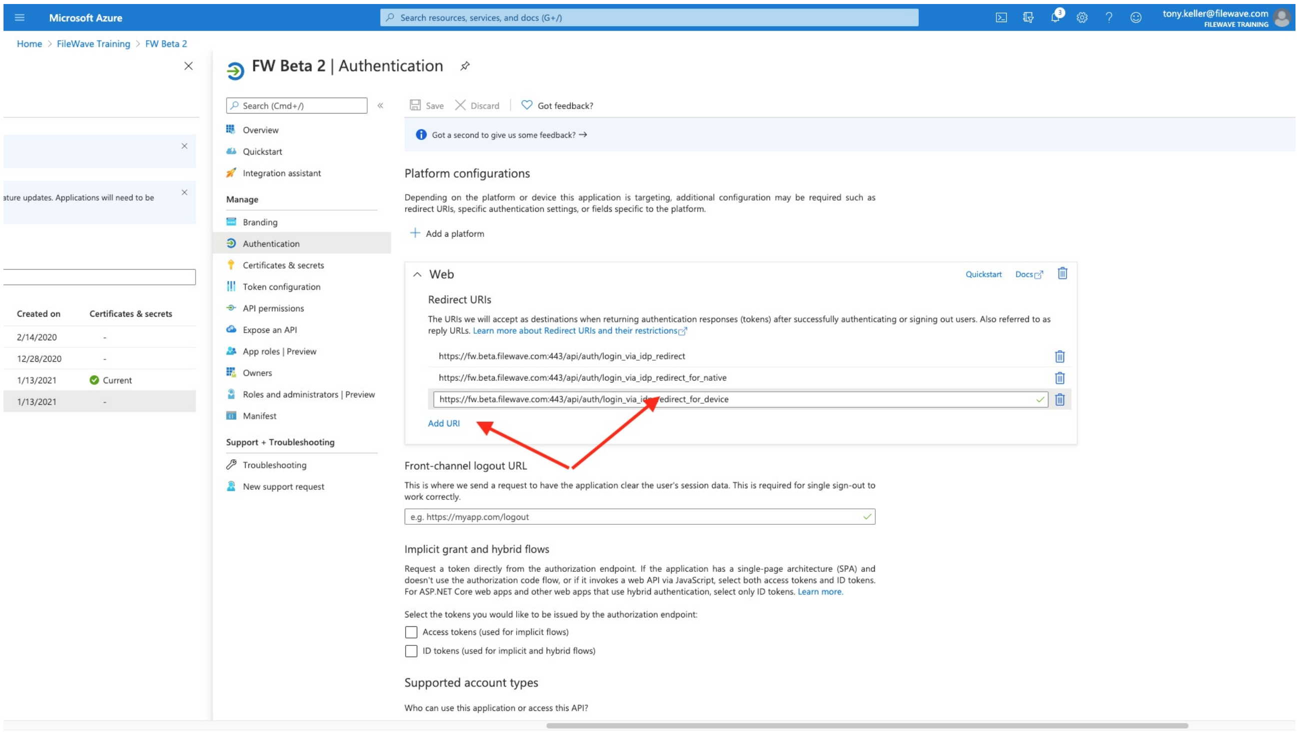
Request a token directly from the authorization endpoint. If the application has a single-page architecture (SPA) and doesn't use the authorization code flow, or if it invokes a web API via JavaScript, select both access tokens and ID tokens. For ASP.NET Core web apps and other web apps that use hybrid authentication, select only ID tokens. Learn more.

Select the tokens you would like to be issued by the authorization endpoint:

□ Access tokens (used for implicit flows)

□ ID tokens (used for implicit and hybrid flows)

And then add the other two from here:



Platform configurations

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Redirect URIs

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https://fw.beta.filewave.com:443/api/auth/login_via_idp_redirect

https://fw.beta.filewave.com:443/api/auth/login_via_idp_redirect_for_native

https://fw.beta.filewave.com:443/api/auth/login_via_idp_redirect_for_device

Front-channel logout URL

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e.g. https://myapp.com/logout

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Select the tokens you would like to be issued by the authorization endpoint:

□ Access tokens (used for implicit flows)

□ ID tokens (used for implicit and hybrid flows)

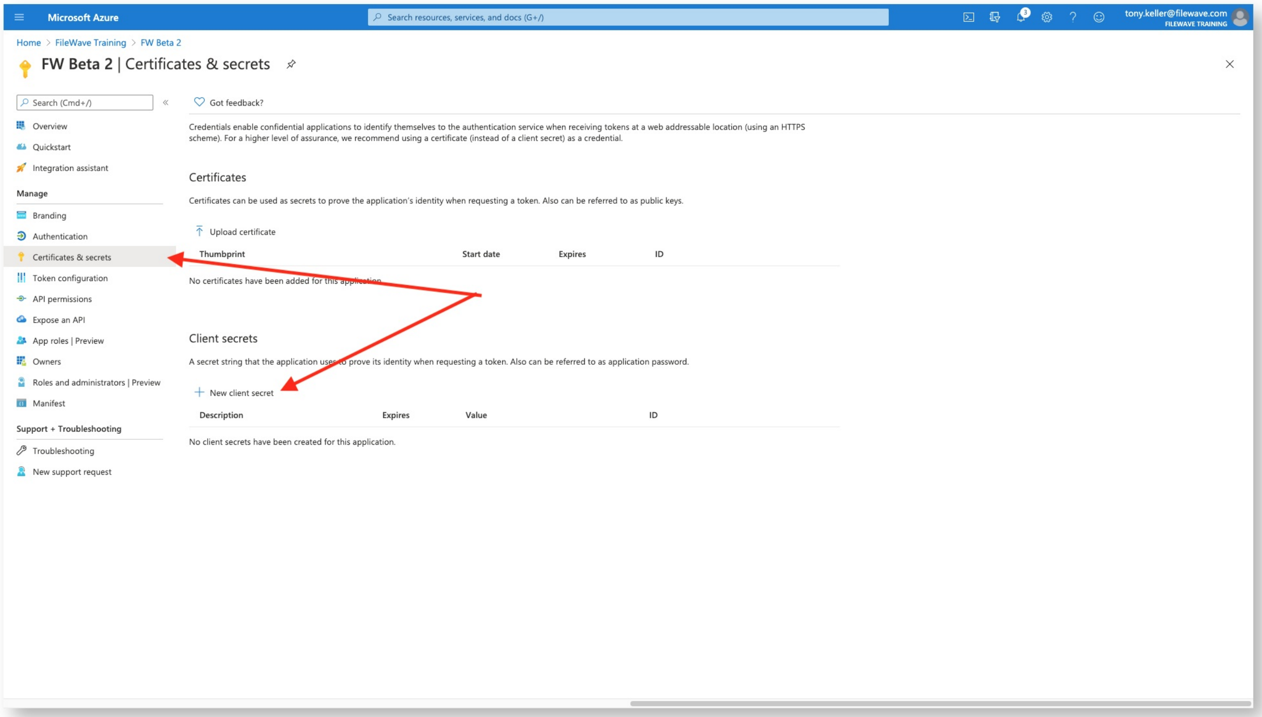
Supported account types

Who can use this application or access this API?

Make sure to hit Save at the top after you have entered all three.

Part 4: Cert & Secrets

Now we are going to go to Certificates & Secrets to provide a way for FileWave to authentication to our new application. Click on New client secret



FW Beta 2 | Certificates & secrets

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Certificates

Certificates can be used as secrets to prove the application's identity when requesting a token. Also can be referred to as public keys.

Thumbprint	Start date	Expires	ID

No certificates have been added for this application.

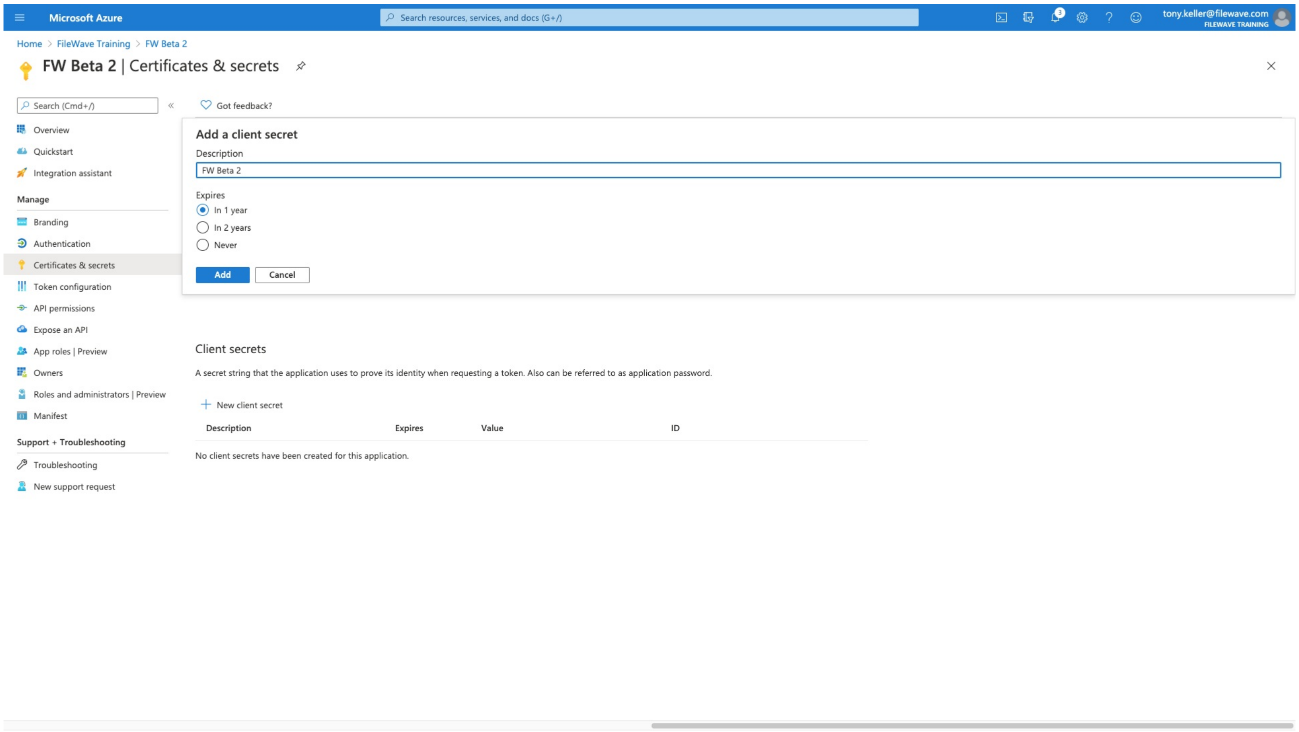
Client secrets

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

Description	Expires	Value	ID

No client secrets have been created for this application.

Then we give it a descriptive name:



FW Beta 2 | Certificates & secrets

Add a client secret

Description: FW Beta 2

Expires
● In 1 year
○ In 2 years
○ Never

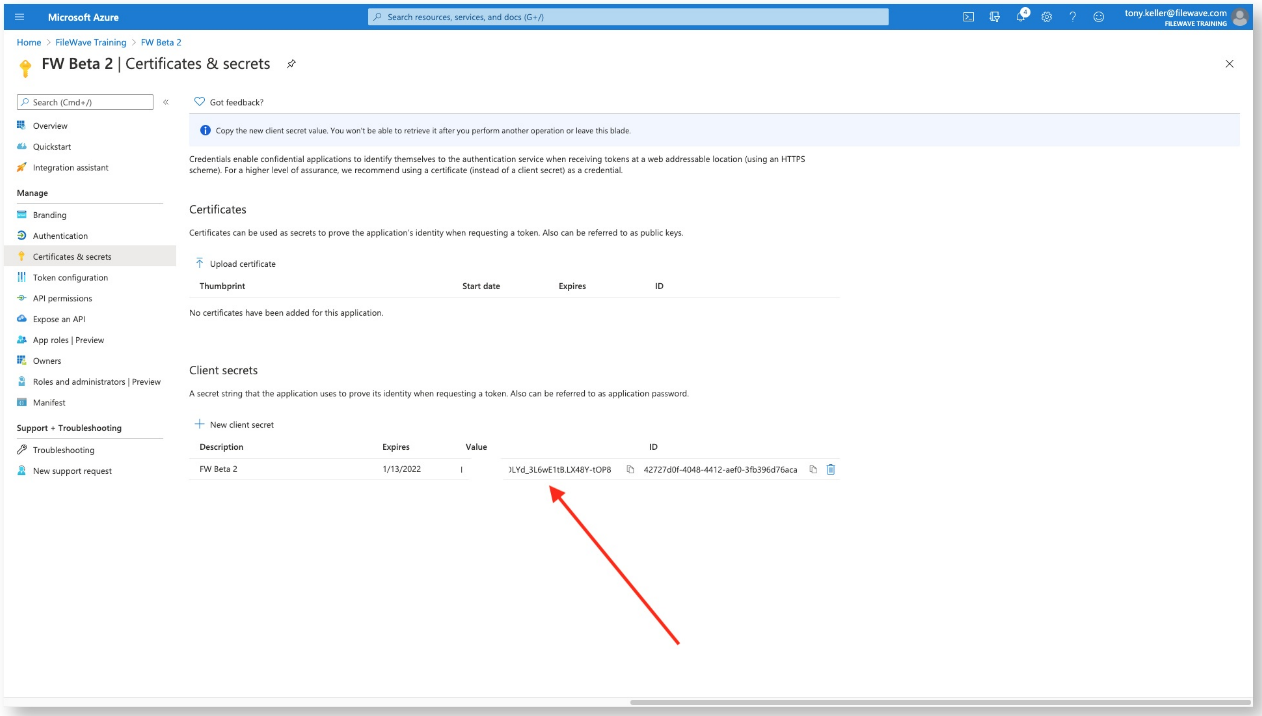
Client secrets

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

Description	Expires	Value	ID

No client secrets have been created for this application.

And then we'll want to get a copy of the Client Secret, and this is the ONLY time you can copy it. The one we need is under the 'Value' column.



FW Beta 2 | Certificates & secrets

Copy the new client secret value. You won't be able to retrieve it after you perform another operation or leave this blade.

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Certificates

Certificates can be used as secrets to prove the application's identity when requesting a token. Also can be referred to as public keys.

Thumbprint	Start date	Expires	ID

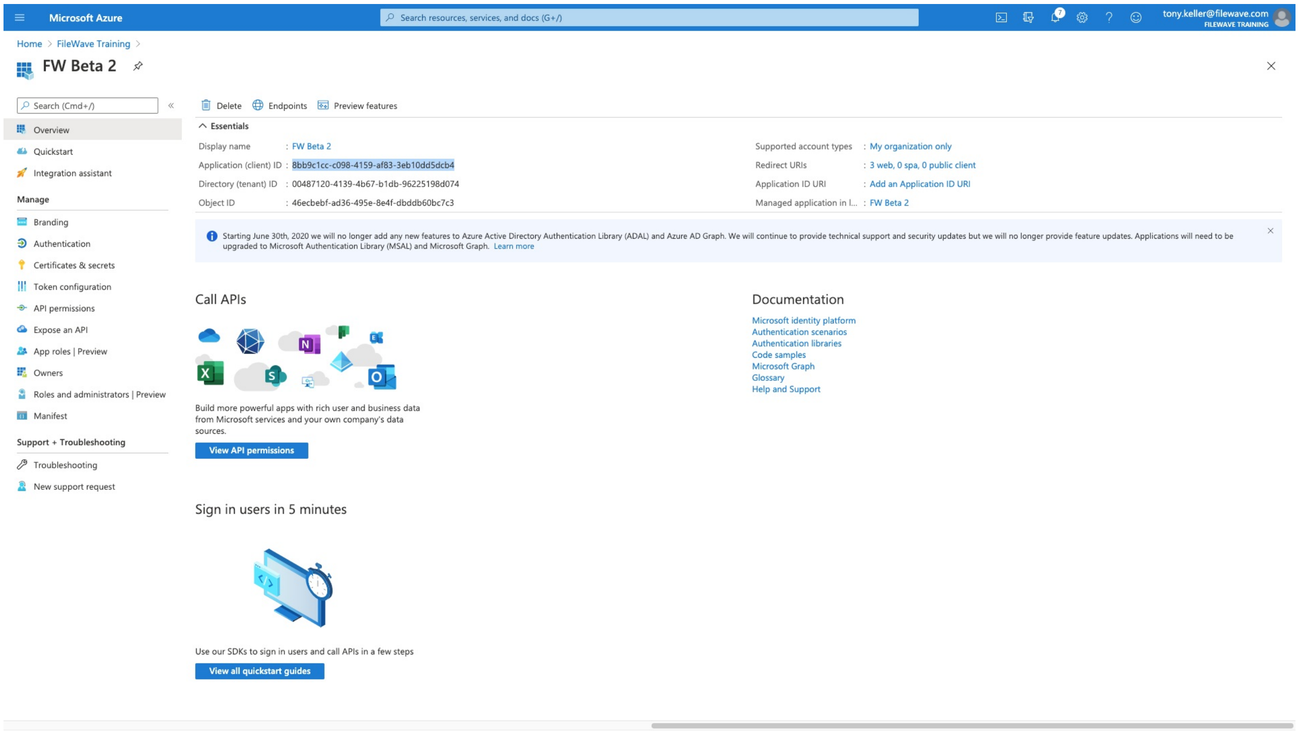
No certificates have been added for this application.

Client secrets

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

Description	Expires	Value	ID
FW Beta 2	1/13/2022	I)LYd_3L6wE1tB.LX48Y-tOP8	42727d0f-4048-4412-aef0-3fb396d76aca

Lastly, we get the The Client ID, you get from the overview page:



FW Beta 2

Display name	: FW Beta 2	Supported account types	: My organization only
Application (client) ID	: 8bb9c1cc-c098-4159-af83-3eb10dd5dcb4	Redirect URIs	: 3 web, 0 spa, 0 public client
Directory (tenant) ID	: 00487120-4139-4b67-b1db-96225198d074	Application ID URI	: Add an Application ID URI
Object ID	: 46ecbebf-ad36-495e-8e4f-dbddb60bc7c3	Managed application in l...	: FW Beta 2

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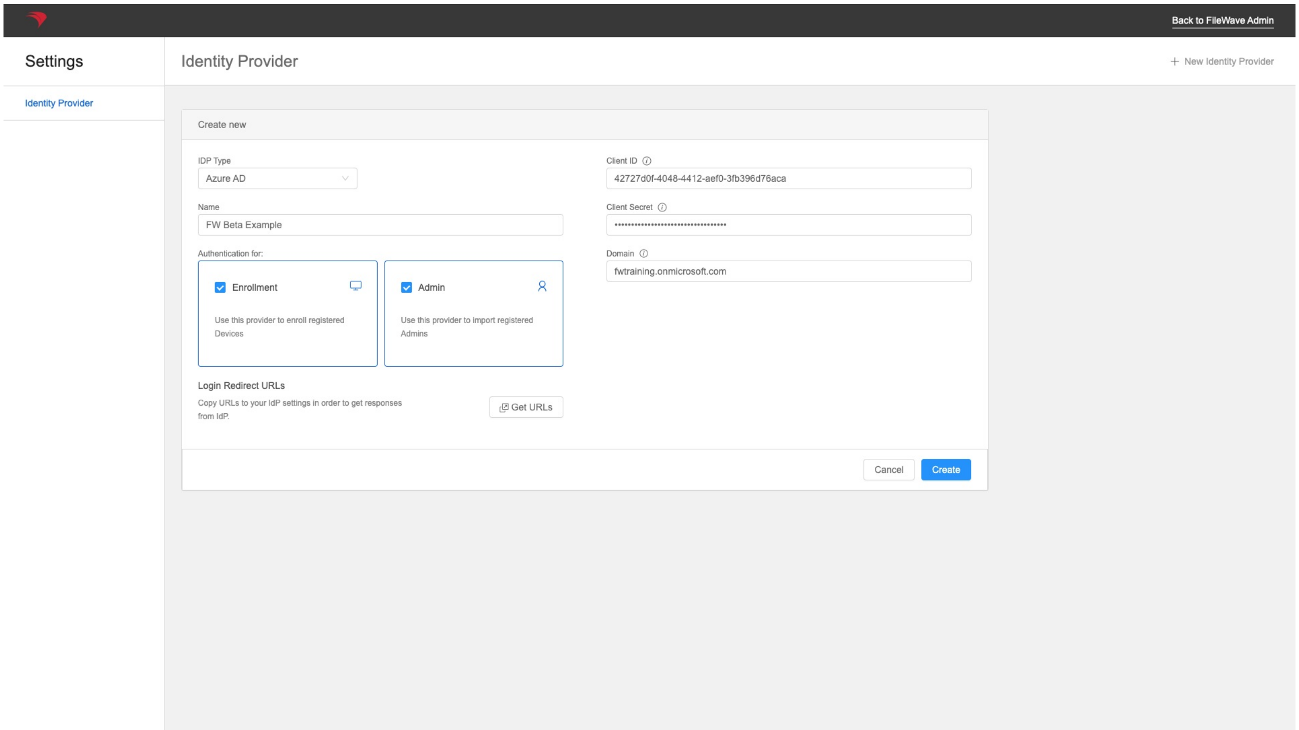
Build more powerful apps with rich user and business data from Microsoft services and your own company's data sources.

Use our SDKs to sign in users and call APIs in a few steps

Each of the relevant values then gets copied into the FileWave config below:



Create new

IDP Type: Azure AD

Name: FW Beta Example

Authentication for:

☑ Enrollment — Use this provider to enroll registered Devices

☑ Admin — Use this provider to import registered Admins

Login Redirect URLs

Copy URLs to your IdP settings in order to get responses from IdP.

Client ID: 42727d0f-4048-4412-aef0-3fb396d76aca

Client Secret: ••••••••••••••••••••••••••••••••••

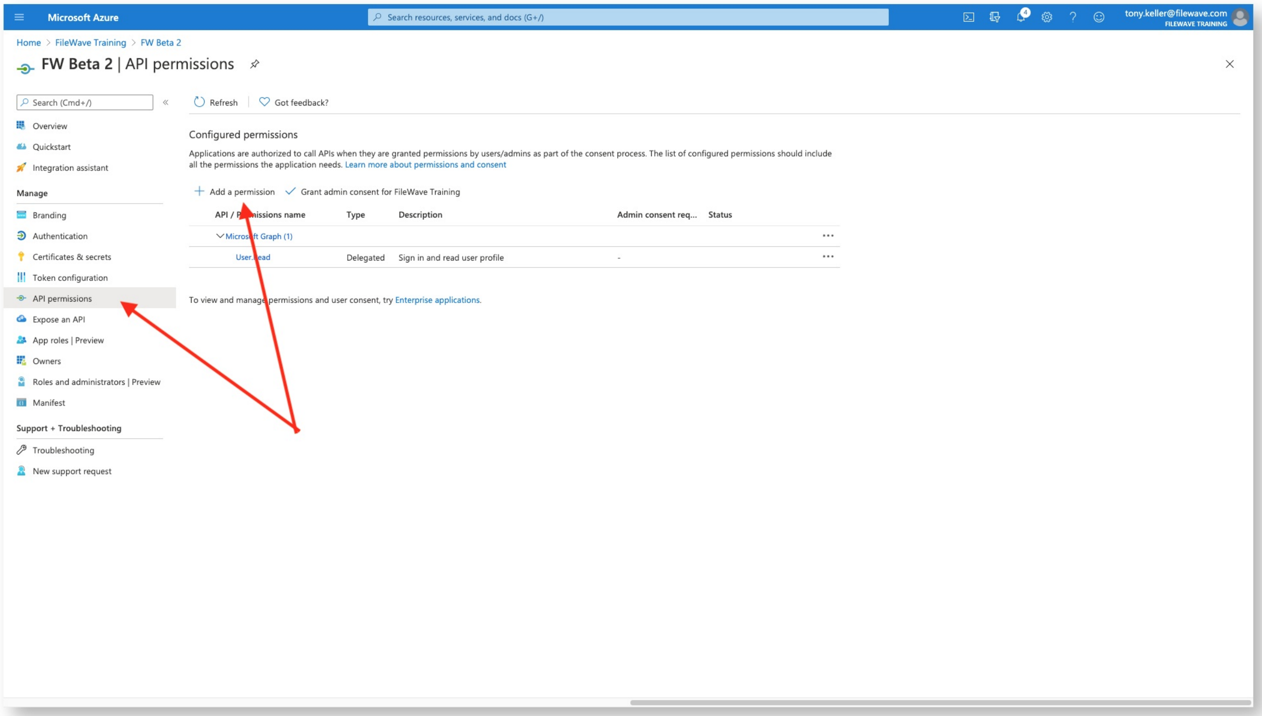
Domain: fwtraining.onmicrosoft.com

> You'll check the checkbox for "Admin" if you want to be able to use AzureAD for login to the FileWave admin with AzureAD, and "Enrollment" if you want to use it for Apple device enrollment authentication. Note that multiple IDPs can be used for admin login, but only one for device enrollment.

Part 5: App Permissions

Now we have to give our app permissions to read the directory so that it can pull group information into FileWave for browsing and rights assignment.

So, we'll go to the App Permissions section and start Adding Permissions



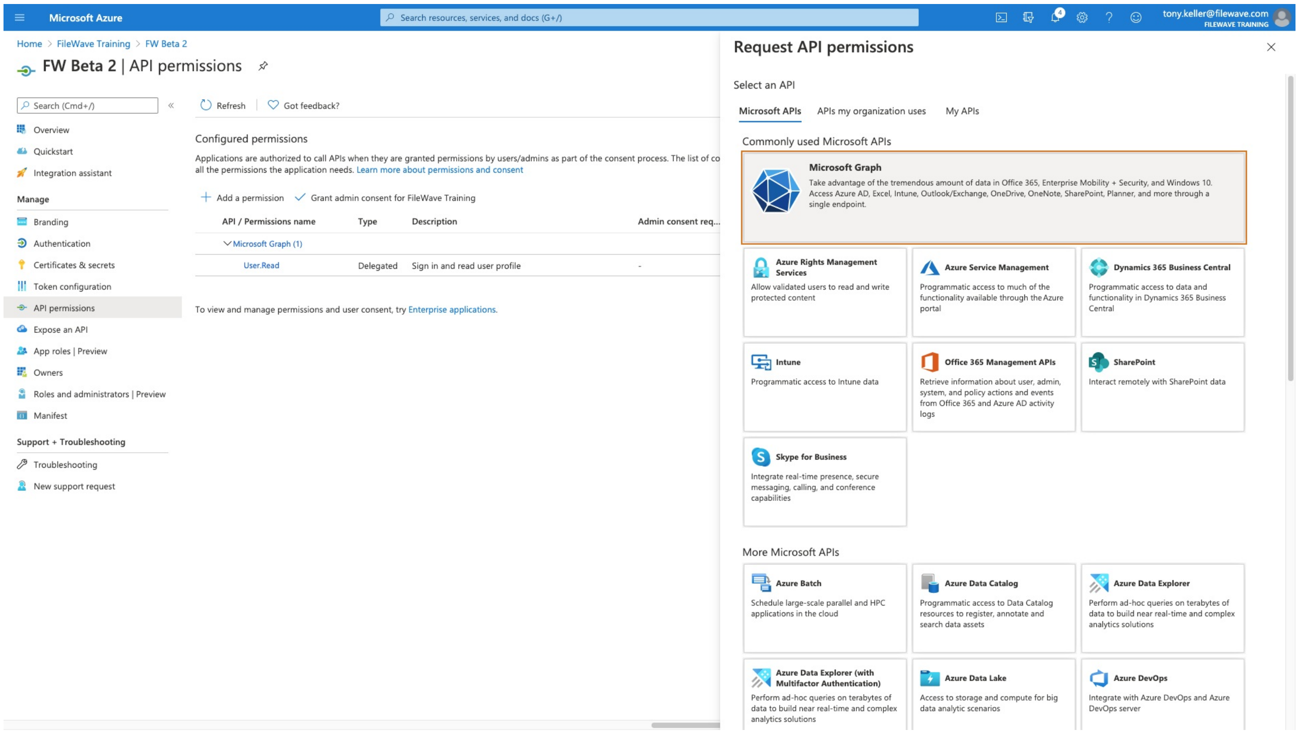
Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. Learn more about permissions and consent

API / Permissions name	Type	Description	Admin consent req...	Status
Microsoft Graph (1)				
User.Read	Delegated	Sign in and read user profile	-	

To view and manage permissions and user consent, try Enterprise applications.

Our permissions are going to be for Microsoft Graph



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FW Beta 2 | API permissions

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- Integration assistant

Manage

- Branding
- Authentication
- Certificates & secrets
- Token configuration
- API permissions
- Expose an API
- App roles | Preview
- Owners
- Roles and administrators | Preview
- Manifest

Support + Troubleshooting

- Troubleshooting
- New support request

Refresh | Got feedback?

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+ Add a permission ✓ Grant admin consent for FileWave Training

API / Permissions name	Type	Description	Admin consent req...
Microsoft Graph (1)			
User.Read	Delegated	Sign in and read user profile	-

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Request API permissions

Select an API

Microsoft APIs | APIs my organization uses | My APIs

Commonly used Microsoft APIs

Microsoft Graph
Take advantage of the tremendous amount of data in Office 365, Enterprise Mobility + Security, and Windows 10. Access Azure AD, Excel, Intune, Outlook/Exchange, OneDrive, OneNote, SharePoint, Planner, and more through a single endpoint.

Azure Rights Management Services
Allow validated users to read and write protected content

Azure Service Management
Programmatic access to much of the functionality available through the Azure portal

Dynamics 365 Business Central
Programmatic access to data and functionality in Dynamics 365 Business Central

Intune
Programmatic access to Intune data

Office 365 Management APIs
Retrieve information about user, admin, system, and policy actions and events from Office 365 and Azure AD activity logs

SharePoint
Interact remotely with SharePoint data

Skype for Business
Integrate real-time presence, secure messaging, calling, and conference capabilities

More Microsoft APIs

Azure Batch
Schedule large-scale parallel and HPC applications in the cloud

Azure Data Catalog
Programmatic access to Data Catalog resources to register, annotate and search data assets

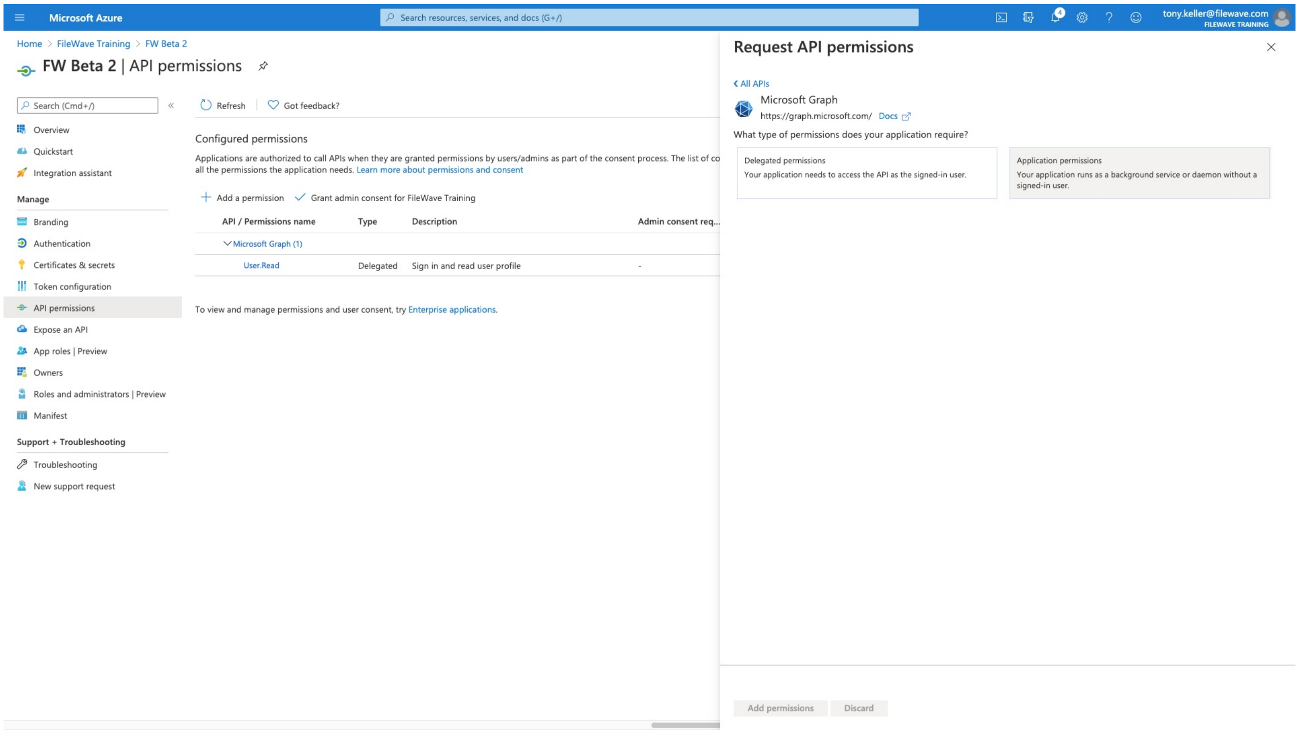
Azure Data Explorer
Perform ad-hoc queries on terabytes of data to build near real-time and complex analytics solutions

Azure Data Explorer (with Multifactor Authentication)
Perform ad-hoc queries on terabytes of data to build near real-time and complex analytics solutions

Azure Data Lake
Access to storage and compute for big data analytic scenarios

Azure DevOps
Integrate with Azure DevOps and Azure DevOps server

We'll start with an application permission:



Microsoft Azure

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FW Beta 2 | API permissions

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- Overview
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Configured permissions

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all the permissions the application needs. Learn more about permissions and consent

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API / Permissions name	Type	Description	Admin consent req...
Microsoft Graph (1)			
User.Read	Delegated	Sign in and read user profile	-

To view and manage permissions and user consent, try Enterprise applications.

Request API permissions

< All APIs

Microsoft Graph
https://graph.microsoft.com/ Docs

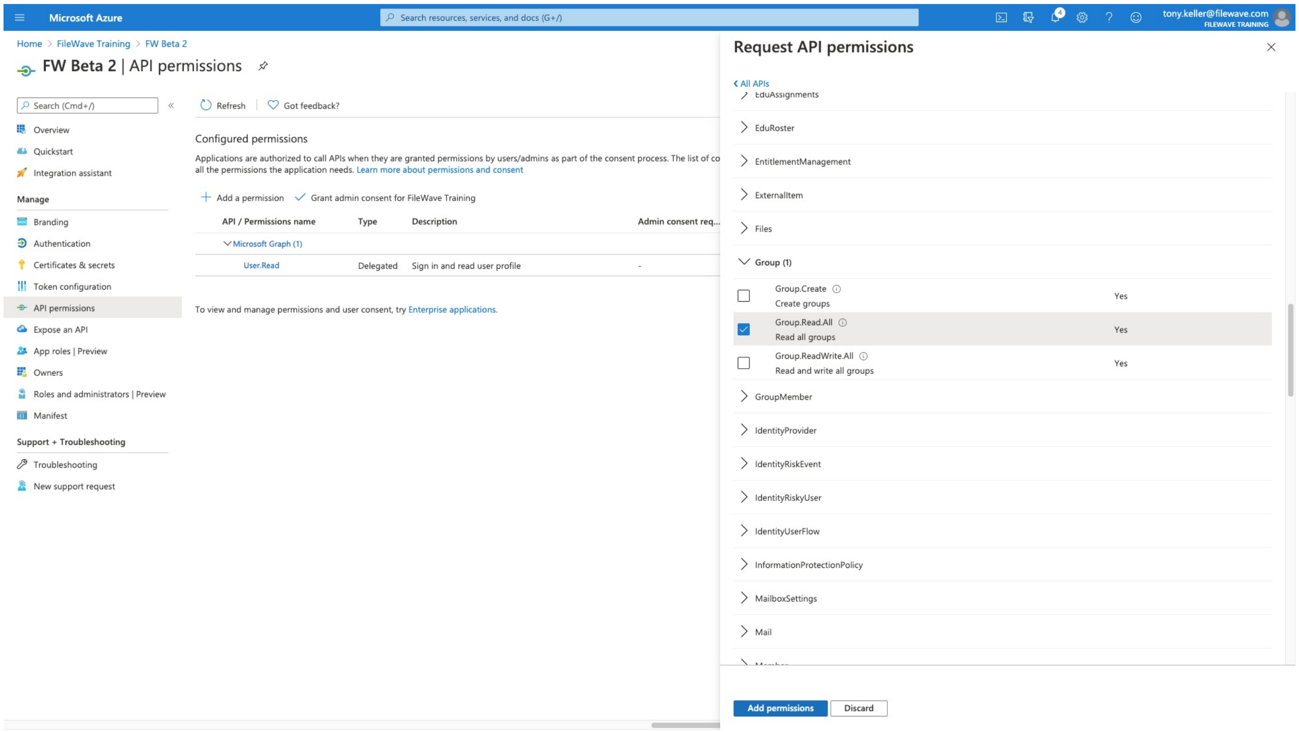
What type of permissions does your application require?

Delegated permissions
Your application needs to access the API as the signed-in user.

Application permissions
Your application runs as a background service or daemon without a signed-in user.

Add permissions | Discard

For Group Read All AND User Read All (not shown, but you can pick two at once):



FW Beta 2 | API permissions

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User.Read	Delegated	Sign in and read user profile	-

To view and manage permissions and user consent, try Enterprise applications.

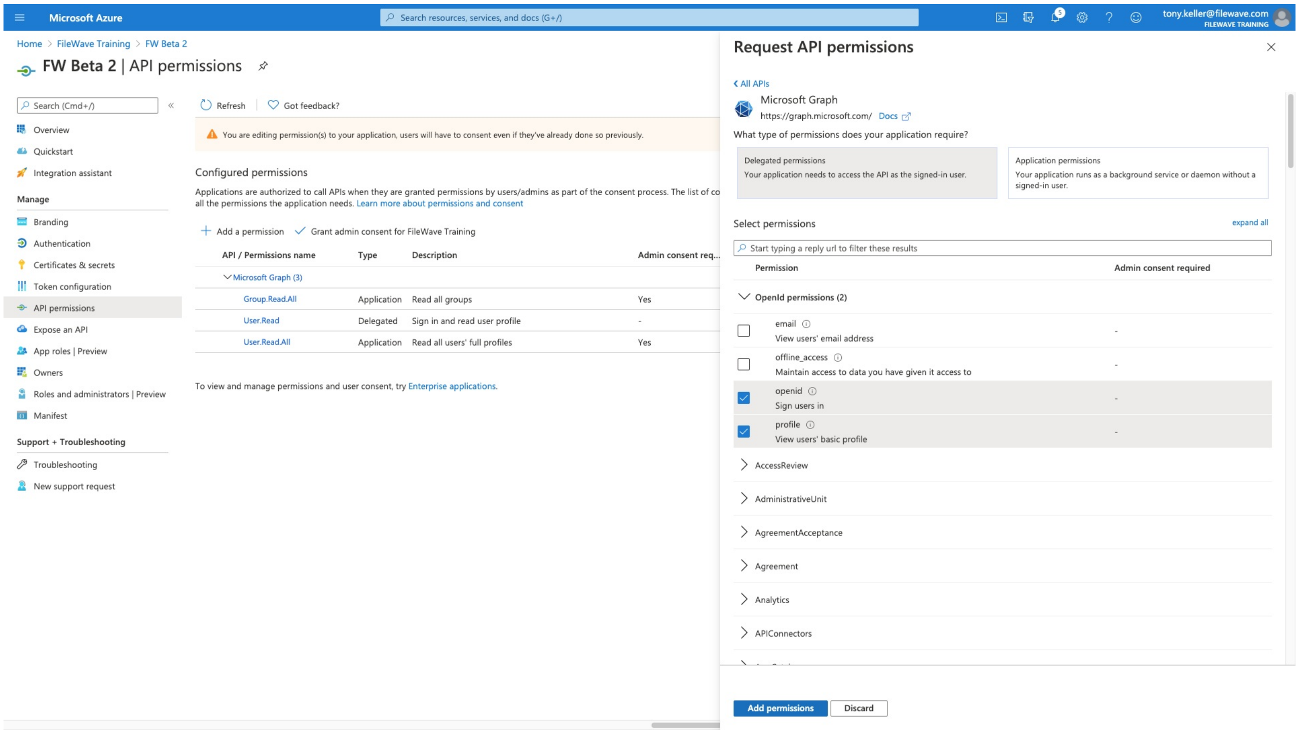
Request API permissions

- EduAssignments
- EduRoster
- EntitlementManagement
- ExternalItem
- Files
- Group (1)

	Permission	Admin consent required
☐	Group.Create Create groups	Yes
☑	Group.Read.All Read all groups	Yes
☐	Group.ReadWrite.All Read and write all groups	Yes

- GroupMember
- IdentityProvider
- IdentityRiskEvent
- IdentityRiskyUser
- IdentityUserFlow
- InformationProtectionPolicy
- MailboxSettings
- Mail

Then we'll add more permissions, but "delegated permissions" for open id and profile as shown:



FW Beta 2 | API permissions

You are editing permission(s) to your application, users will have to consent even if they've already done so previously.

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of co all the permissions the application needs. Learn more about permissions and consent

API / Permissions name	Type	Description	Admin consent req...
Microsoft Graph (3)			
Group.Read.All	Application	Read all groups	Yes
User.Read	Delegated	Sign in and read user profile	-
User.Read.All	Application	Read all users' full profiles	Yes

To view and manage permissions and user consent, try Enterprise applications.

Request API permissions

Microsoft Graph
https://graph.microsoft.com/

What type of permissions does your application require?

Delegated permissions
Your application needs to access the API as the signed-in user.

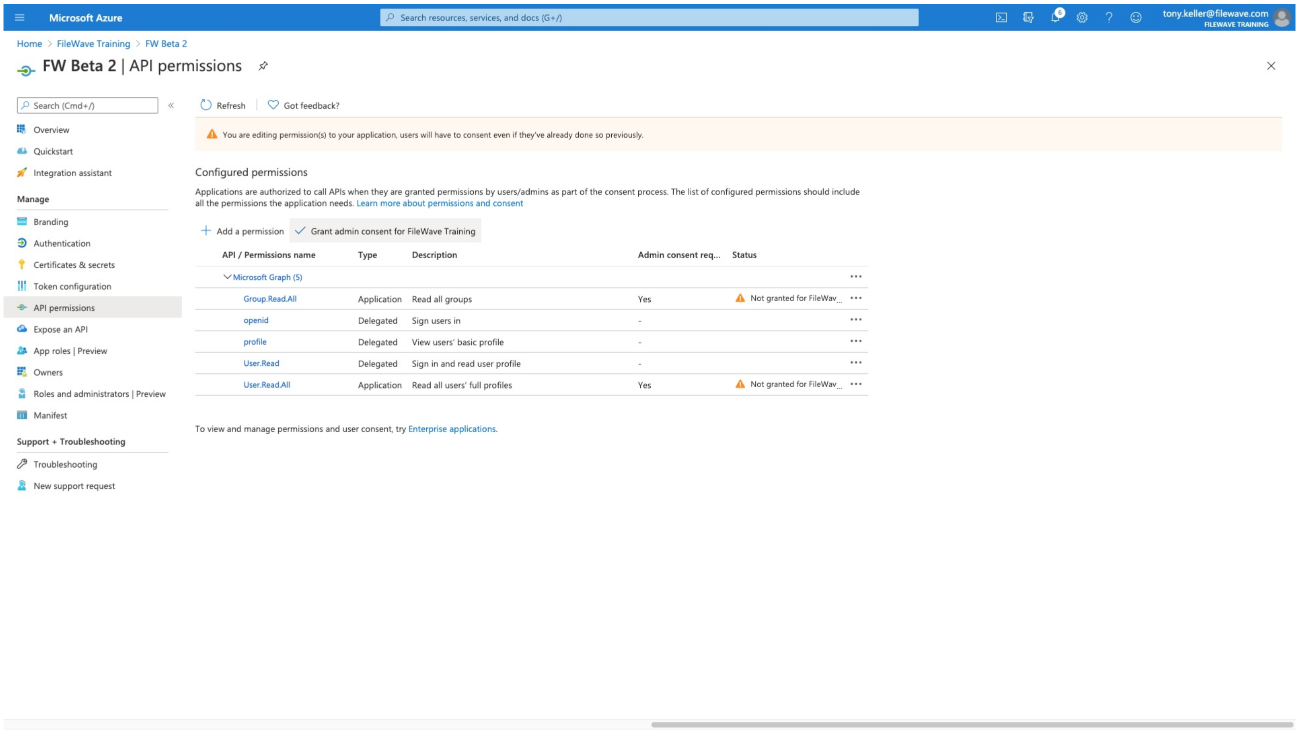
Application permissions
Your application runs as a background service or daemon without a signed-in user.

Select permissions

	Permission	Admin consent required
	OpenId permissions (2)	
☐	email View users' email address	-
☐	offline_access Maintain access to data you have given it access to	-
☑	openid Sign users in	-
☑	profile View users' basic profile	-

- AccessReview
- AdministrativeUnit
- AgreementAcceptance
- Agreement
- Analytics
- APIConnectors

Our permissions then should look like this when we have them all



Microsoft Azure

Search resources, services, and docs (G+/)

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API / Permissions name	Type	Description	Admin consent req...	Status
Microsoft Graph (5)				
Group.Read.All	Application	Read all groups	Yes	Not granted for FileWav...
openid	Delegated	Sign users in	-	
profile	Delegated	View users' basic profile	-	
User.Read	Delegated	Sign in and read user profile	-	
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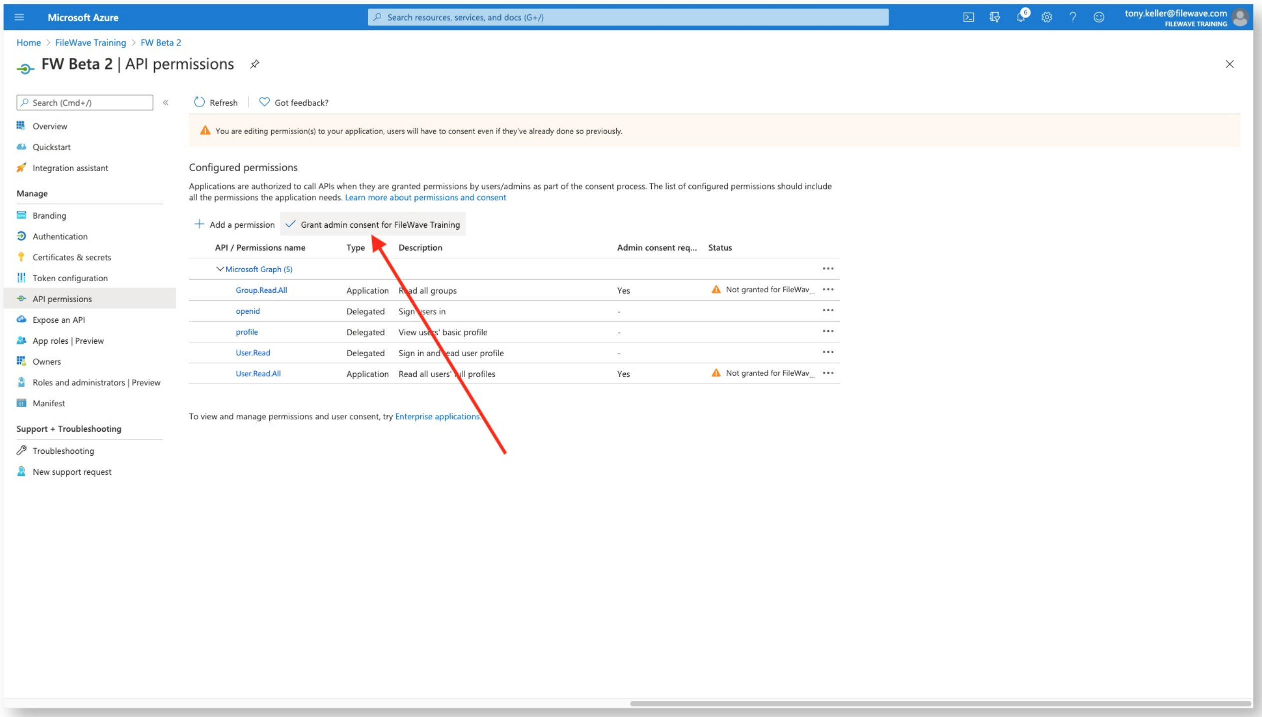
To view and manage permissions and user consent, try Enterprise applications.

And then we just need to click Grant Consent to finish with the permissions



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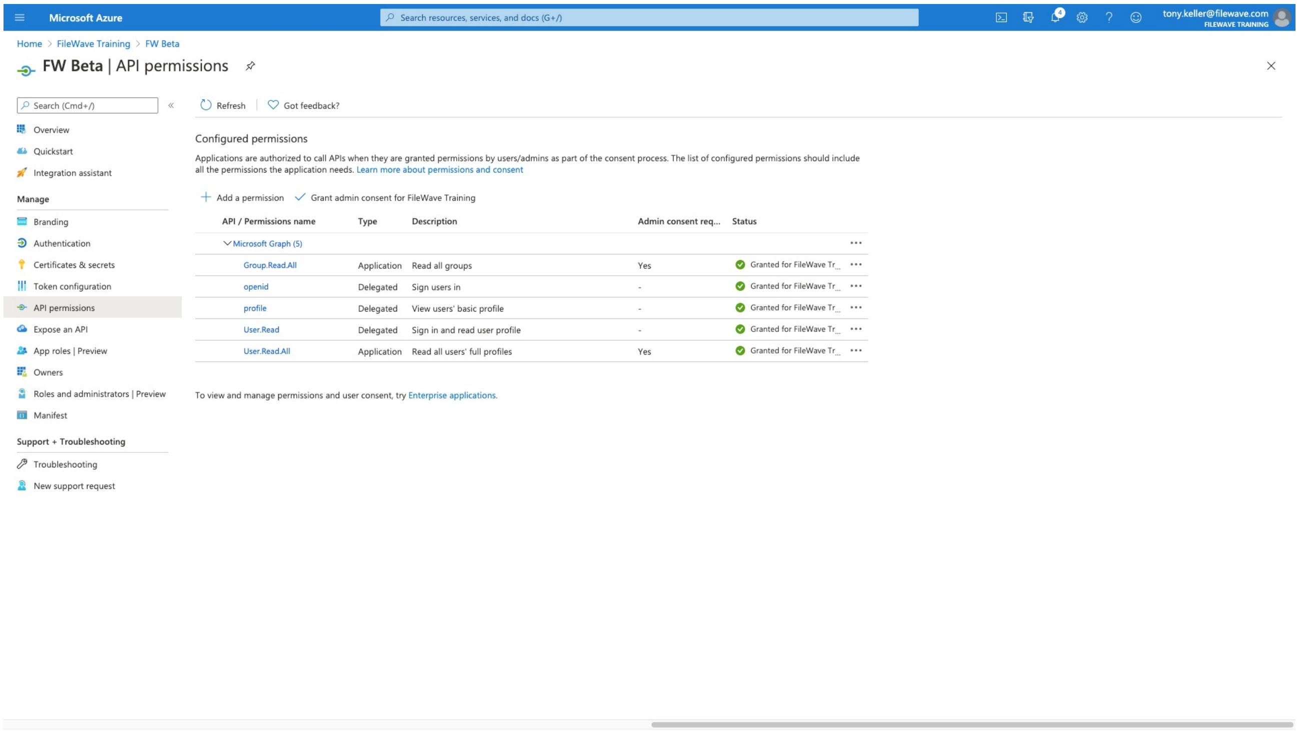
To view and manage permissions and user consent, try Enterprise applications.

When they show as green, we are all done!



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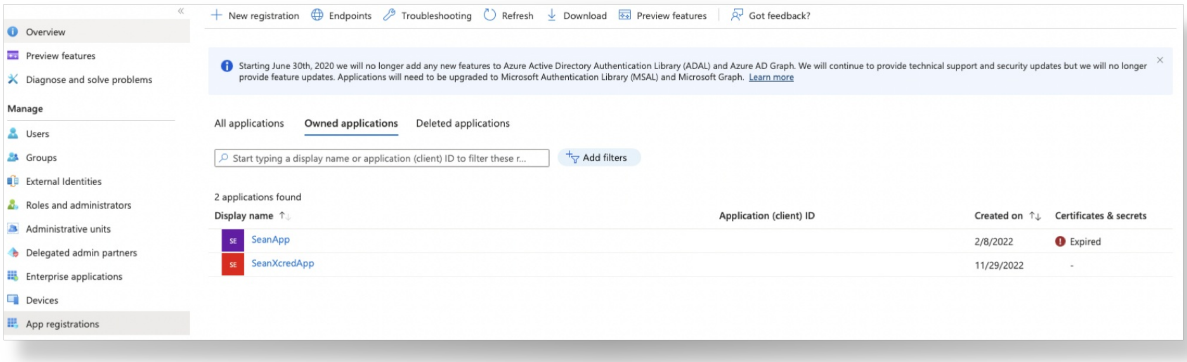
User.Read	Delegated	Sign in and read user profile	-	Granted for FileWave Tr...
User.Read.All	Application	Read all users' full profiles	Yes	Granted for FileWave Tr...

To view and manage permissions and user consent, try Enterprise applications.

Part 6: App Registration Renewal

At some point the Certificate of the App will expire and a new certificate should be generated. The maximum you can set before expiry is 2 years.

From the App Registration view, expired certificates may be observed

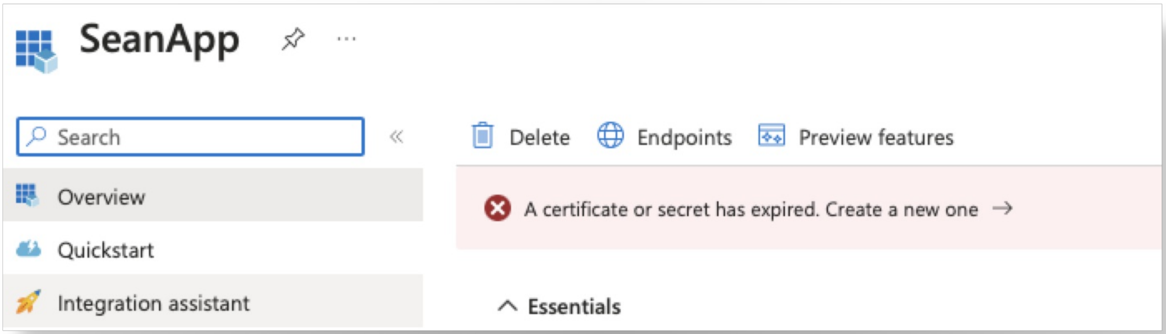


Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical support and security updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more

2 applications found

Display name	Application (client) ID	Created on	Certificates & secrets
SE SeanApp		2/8/2022	Expired
SE SeanXcredApp		11/29/2022	-

For renewal, click on the Display Name of the App, followed by 'Create a new one ->'



A certificate or secret has expired. Create a new one →

Then generate a 'New client secret' similar to part 4 of this KB.

- Add a description
- Copy the secret from the 'Value' column, not the 'Secret ID'. Be sure to copy it just after creating your new secret, otherwise it will appear obfuscated the next time you attempt to view it.

This time though, you will only need to ddit the current IdP in FileWave Anywhere:

- Open Settings in the FileWave Admin
- Choose Edit from the selected IdP
- Paste in the new secret value and 'Save'

> ✓ The old, expired certificate may be deleted from within the Azure portal.

Related Content

- Adding IdP Groups for FileWave Authentication
- Configuring DEP Profiles for IDP Authentication
- Admin Login in Using an IdP Provider

⟲Revision #12
★Created 21 June 2023 20:18:10 by Josh Levitsky
✎Updated 21 April 2025 23:06:07 by Zachary Butterfield