

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

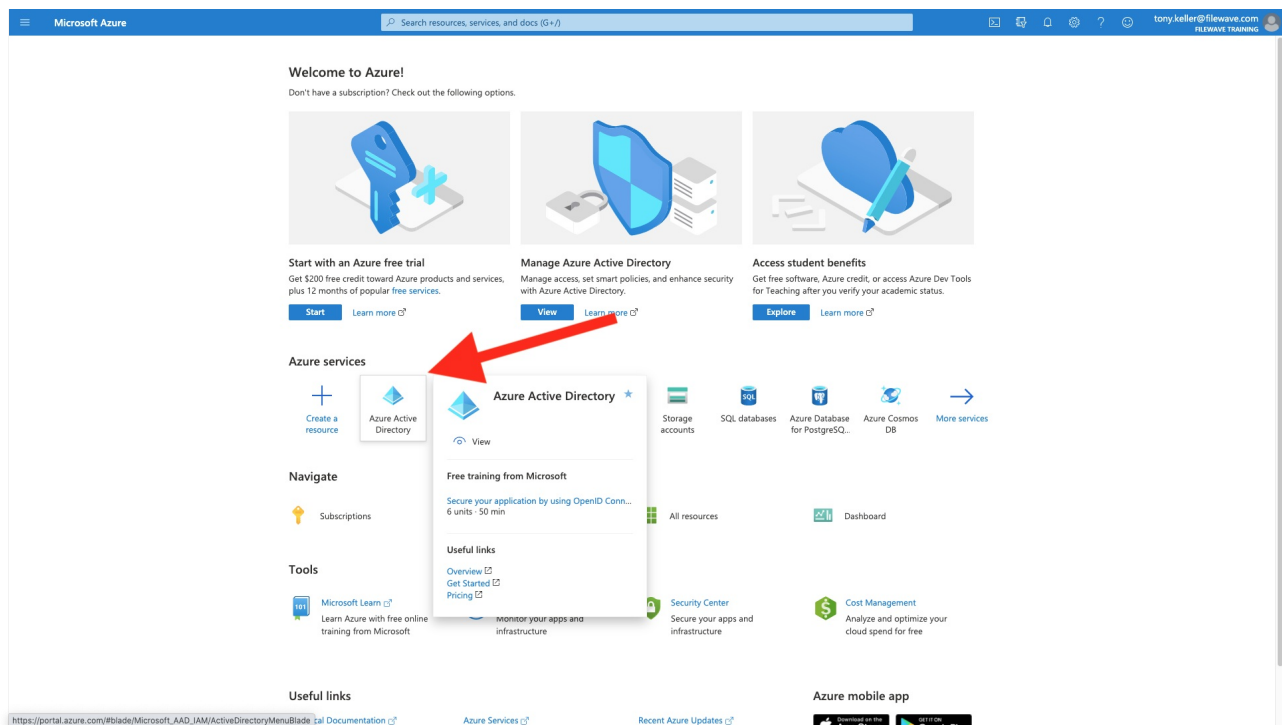
This configuration is required if you want to use AzureAD for authentication during device enrollment or during login to the FileWave Web and Native administrator consoles.

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:



And make note of the domain info shown below:

The screenshot shows the Microsoft Azure portal interface for the 'FileWave Training' tenant. The left sidebar contains navigation links for Overview, Manage (Users, Groups, External Identities, Roles and administrators, Administrative units, Enterprise applications, Devices, App registrations, Identity Governance, Application proxy, Licenses, Azure AD Connect, Custom domain names, Mobility (MDM and MAM), Password reset, Company branding, User settings, Properties, Security), and Monitoring (Sign-ins, Audit logs, Provisioning logs (Preview)). The main content area shows the 'FileWave Training' Overview page. It includes a search bar for tenants, a 'Tenant information' section with details like 'Your role: Global administrator', 'License: Azure AD Free', 'Tenant ID: 00487120-4139-4b67-b1db-962...', and 'Primary domain: fwtraining.onmicrosoft.com'. A red arrow points to the primary domain. The 'Azure AD Connect' section shows 'Status: Not enabled' and 'Last sync: Sync has never run'. Below this is a 'Sign-ins' chart showing a peak of 15 sign-ins on Dec 20. At the bottom, there are 'Create' buttons for User, Guest user, Group, Enterprise application, and App registration, and 'Featured services'.

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":

The screenshot shows the Microsoft Azure portal interface for the 'FileWave Training' tenant, specifically the 'App registrations' page. The left sidebar is the same as the previous screenshot. The main content area shows the 'App registrations' page with a '+ New registration' button at the top. Below this is a search bar and a table of applications. The table has columns for 'Display name', 'Application (client) ID', 'Created on', and 'Certificates & secrets'. The table lists three applications: 'FileWave Integration' (created 2/14/2020), 'FW Beta' (created 12/28/2020), and 'FW Beta' (created 1/13/2021, status 'Current'). A red arrow points to the '+ New registration' button.

Display name	Application (client) ID	Created on	Certificates & secrets
FileWave Integration	065ccb0e-86cd-4887-a54c-b8b08a086a2c	2/14/2020	-
FW Beta	34a993c3-fb0c-4900-83f1-bc2d98d0a6bb	12/28/2020	-
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

Home > FileWave Training > FW Beta 2

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:

Microsoft Azure

Home > FileWave Training > FW Beta 2

FW Beta 2 | Authentication

Search (Cmd+/) Save Discard Got feedback?

Overview
Quickstart
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

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...](#)

Advanced settings
Allow public client flows

Enable the following mobile and desktop flows:

- 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

FileWave Admin

Model Number: 108

Search for Devices

TonyK

Settings

Devices

Android ChromeOS iOS macOS tvOS Windows Other/Unknown All

Go to Dashboard

Devices

Payloads

Software Updates

Deployments

Sources

Reports

Licenses

Groups	Name	Groups	Asset Tag	Comment	User	Model	IP Addr
Root	3183a5776d58cee0	SG Mixed, SG Mixed 1 (test), ...					
All iOS (non-inv)	ARKONE	All Windows (inv), FileWave Cl...			Administrator	16	99.203...
All macOS (inv)	DESKTOP-T3SL865	All Windows (inv), FileWave Cl...			joe	0	184.19...
All Windows (inv)	Rewave's Mac	All macOS (inv), FileWave Clie...			filewave	11	184.19...
BAM Devices	FOUNDRY1	All Windows (inv), FileWave Cl...	FW-ASSET		keller90	83	172.58...
Chromebooks	FW-DMP891ZTHG5...	All iOS (non-inv), TK Client De...					172.58...
FileWave Client Version	lpad Main	All iOS (non-inv), Have Asset T...	FW-657394				172.58...
FileWave Client Version 42	PesCee-McPC	All Windows (inv), FileWave Cl...					172.58...
Have Asset Tags	Surface-McPC	All Windows (inv), FileWave Cl...	Mine		sk_fir	105	172.58...
SG Mixed	Tony Keller MBPro	All macOS (inv), FileWave Clie...	FW-123456		keller90	108	172.58...
SG Mixed 1 (test)							
Test Android							
TK Client Devices							

14.2.0-27af6524e

Then choose an Microsoft Entra ID IDP Provider


Settings

Identity Provider


Back to FileWave Admin

+ New Identity Provider

Select Identity Provider you want to setup



Setup Okta



Setup Microsoft Azure AD

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

Settings

Identity Provider

Back to FileWave Admin

+ New Identity Provider

Identity Provider

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.

[Get URLs](#)

Client ID

Paste Client ID

Required

Client Secret

Required

Domain

Your domain name

Cancel

Create

Settings

Identity Provider

Back to FileWave Admin

+ New Identity Provider

Identity Provider

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.

[Get URLs](#)

Client ID

Paste Client ID

Required

Client Secret

Required

Domain

Your domain name

Cancel

Create

Login redirect URLs

Copy the URLs below to your IDP provider settings

https://fw.beta.filewave.com:4...

Copy

https://fw.beta.filewave.com:4...

Copy

https://fw.beta.filewave.com:4...

Copy

Close

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

Microsoft Azure

Home > FileWave Training > FW Beta 2

FW Beta 2 | Authentication

Search (Cmd+J)

Save Discard Got feedback?

Overview Quickstart 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

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

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☐ 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 Web

All platforms Quickstart Docs

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)

Configure Cancel

And then add the other two from here:

Microsoft Azure

Home > FileWave Training > FW Beta 2

FW Beta 2 | Authentication

Search (Cmd+J)

Save Discard Got feedback?

Overview Quickstart 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

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

Web

Quickstart Docs

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

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

Add URI

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)

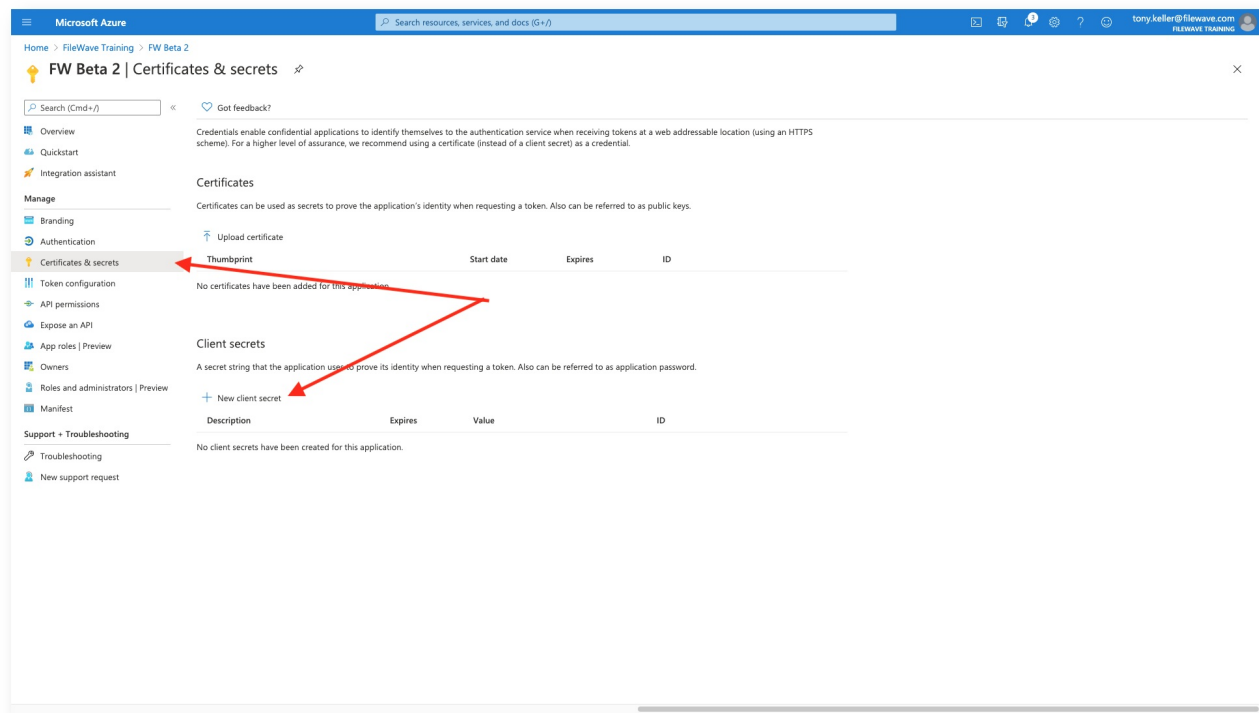
Supported account types

Who can use this application or access this API?

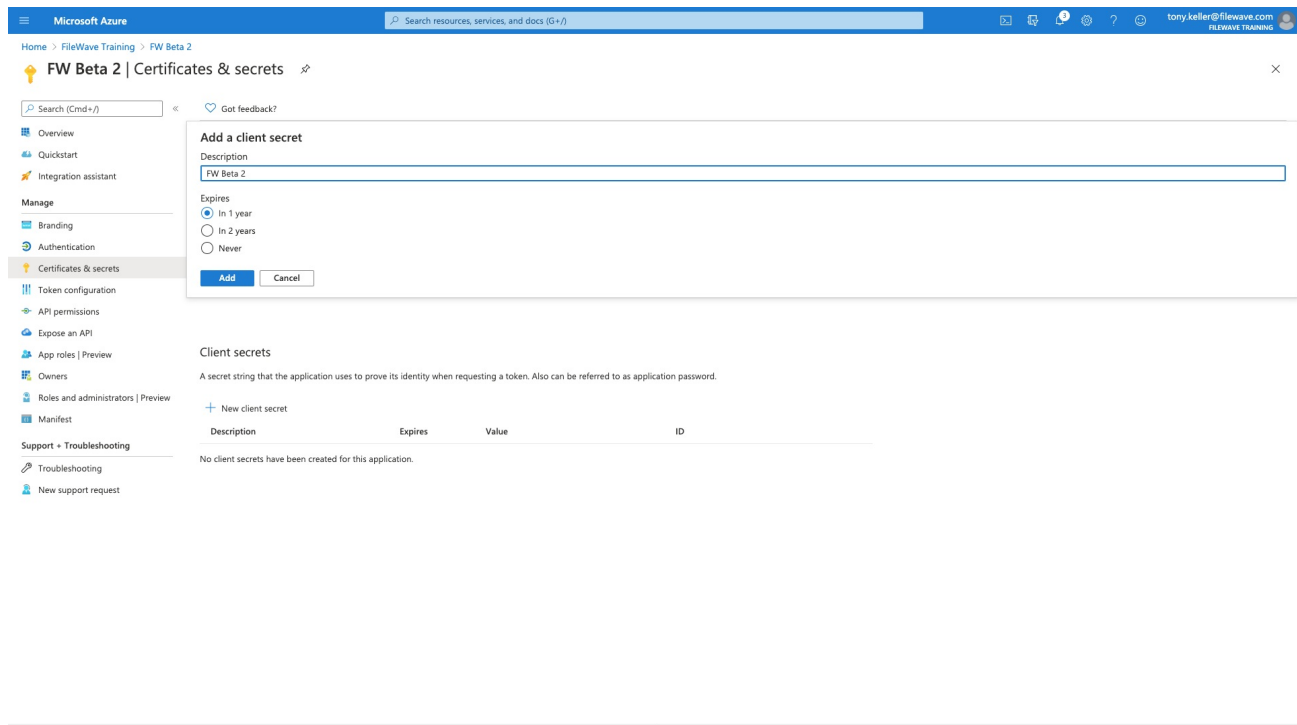
Make sure to hit Save at the top after you have entered all three.

Part 4: Cert & Secrets

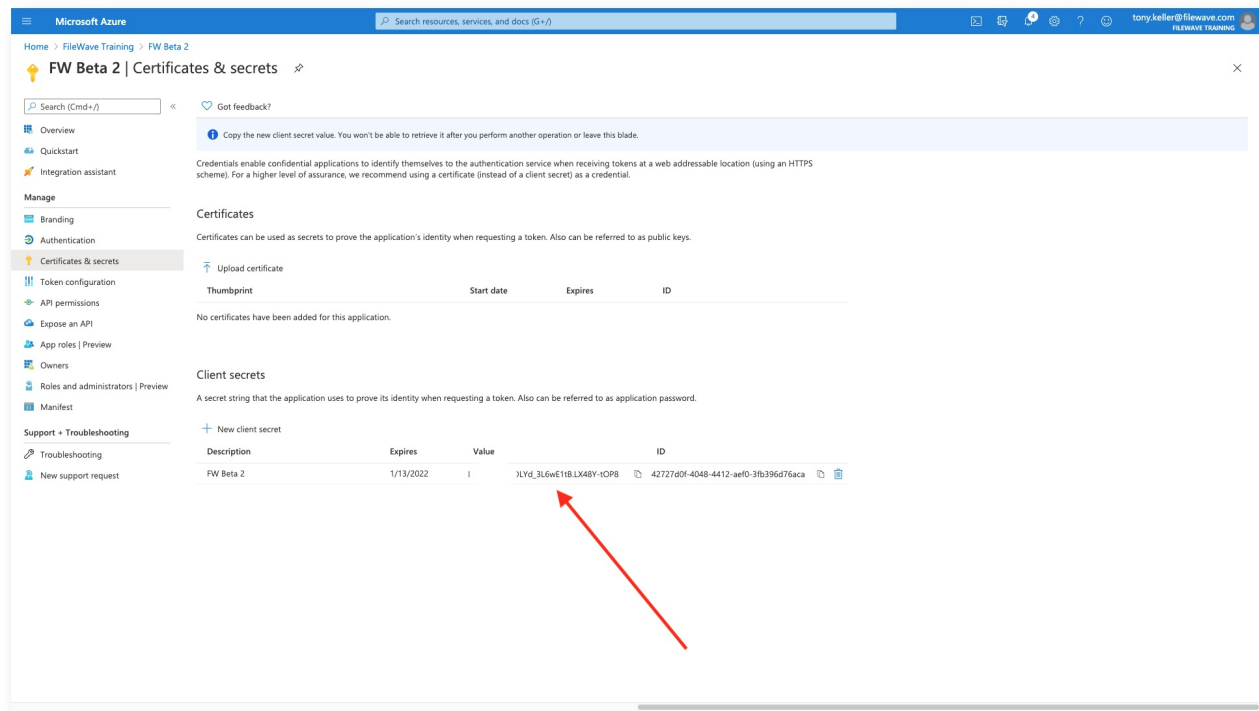
Now we are going to go to Certificates & Secrets to provide a way for FileWave to authentication to our new application. Click on New client secret



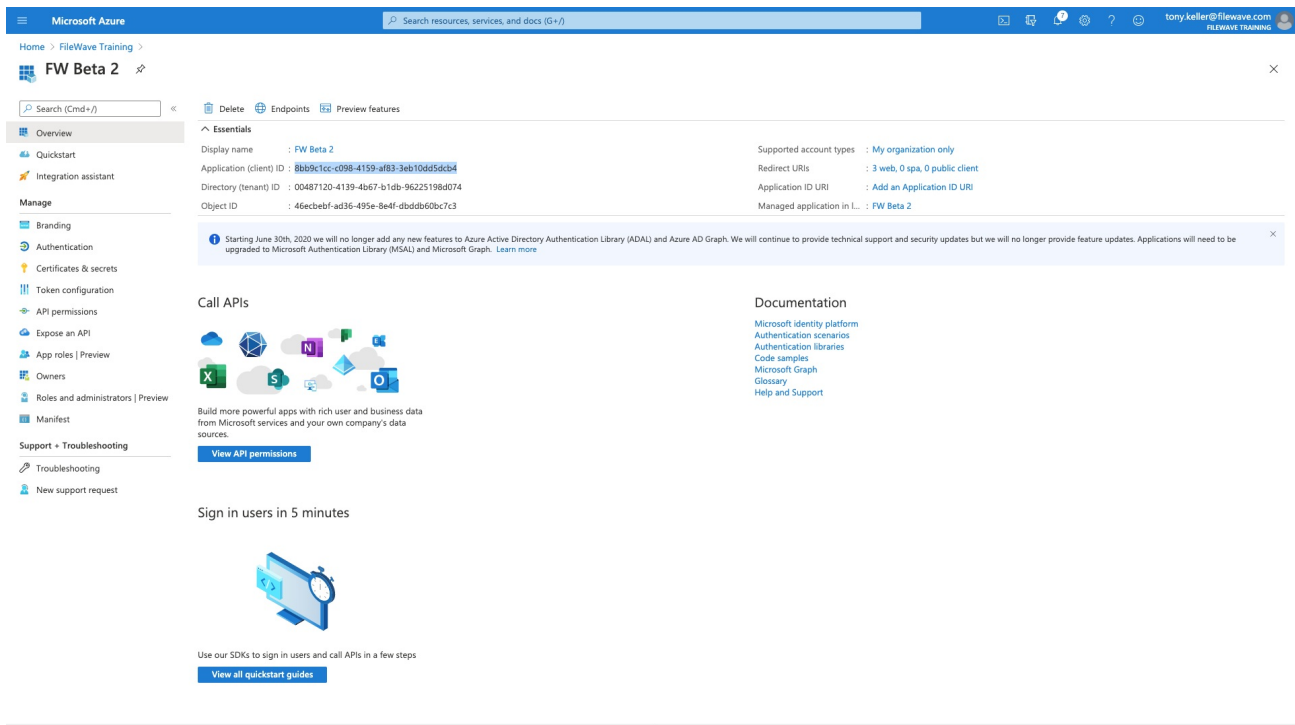
Then we give it a descriptive name:



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



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



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

Settings

Identity Provider

Identity Provider

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.

Get URLs

Client ID

42727d0f-4048-4412-ae03-b3b396d76aca

Client Secret

Domain

fwtraining.onmicrosoft.com

Cancel

Create

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

Microsoft Azure

Search resources, services, and docs (G+)

Home > FileWave Training > FW Beta 2

FW Beta 2 | API permissions

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Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

App roles | Preview

Owners

Roles and administrators | Preview

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Support + Troubleshooting

Troubleshooting

New support request

Search (Cmd+/)

Refresh

Got feedback?

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](#)

Add a permission

Grant admin consent for FileWave Training

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

Microsoft Azure | Search resources, services, and docs (G+)

Home > FileWave Training > FW Beta 2

FW Beta 2 | API permissions

Search (Cmd+/) Refresh Got feedback?

Overview Quickstart Integration assistant

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

Support + Troubleshooting

- Troubleshooting
- New support request

Configured permissions

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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	-


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


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

Home > FileWave Training > FW Beta 2

FW Beta 2 | API permissions

Search (Cmd+/) Refresh Got feedback?

Overview Quickstart Integration assistant

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- Expose an API
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- Roles and administrators | Preview
- Manifest

Support + Troubleshooting

- Troubleshooting
- New support request

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 all the permissions the application needs. [Learn more about permissions and consent](#)


+ 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	-

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):

Request API permissions

< All APIs

EdU Roster

EntitlementManagement

ExternalItem

Files

Group (1)

Permission	Admin consent required
Group.Create	Yes
Group.Read.All	Yes
Group.ReadWrite.All	Yes

GroupMember

IdentityProvider

IdentityRiskEvent

IdentityRiskyUser

IdentityUserFlow

InformationProtectionPolicy

MailboxSettings

Mail

Add permissions Discard

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

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.

Select permissions expand all

Start typing a reply url to filter these results

Permission	Admin consent required
email	-
offline_access	-
openid	Yes
profile	Yes

AccessReview

AdministrativeUnit

AgreementAcceptance

Agreement

Analytics

APIConnectors

Add permissions Discard

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

Microsoft Azure | Search resources, services, and docs (G+/J)

Home > FileWave Training > FW Beta 2

FW Beta 2 | API permissions

Search (Cmd+/) Refresh Got feedback?

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 configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission ☒ Grant admin consent for FileWave Training

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	-	
User.Read.All	Application	Read all users' full profiles	Yes	Not granted for FileWav...

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

Support + Troubleshooting

- Troubleshooting
- New support request

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

Microsoft Azure | Search resources, services, and docs (G+/J)

Home > FileWave Training > FW Beta 2

FW Beta 2 | API permissions

Search (Cmd+/) Refresh Got feedback?

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

Configured permissions

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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	-	
User.Read.All	Application	Read all users' full profiles	Yes	Not granted for FileWav...

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

Support + Troubleshooting

- Troubleshooting
- New support request

When they show as green, we are all done!

Microsoft Azure

Home > FileWave Training > FW Beta

FW Beta | API permissions

Search (Cmd+J) Refresh Got feedback?

Overview Quickstart 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

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+ Add a permission ✓ Grant admin consent for FileWave Training

API / Permissions name	Type	Description	Admin consent req...	Status
Microsoft Graph (5)				...
Group.Read.All	Application	Read all groups	Yes	Granted for FileWave Tr...
openid	Delegated	Sign users in	-	Granted for FileWave Tr...
profile	Delegated	View users' basic profile	-	Granted for FileWave Tr...
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.

From the App Registration view, expired certificates may be observed

Overview Preview features Diagnose and solve problems

Manage

Users Groups External Identities Roles and administrators Administrative units Delegated admin partners Enterprise applications Devices App registrations

+ New registration Endpoints Troubleshooting Refresh Download Preview features Got feedback?

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](#)

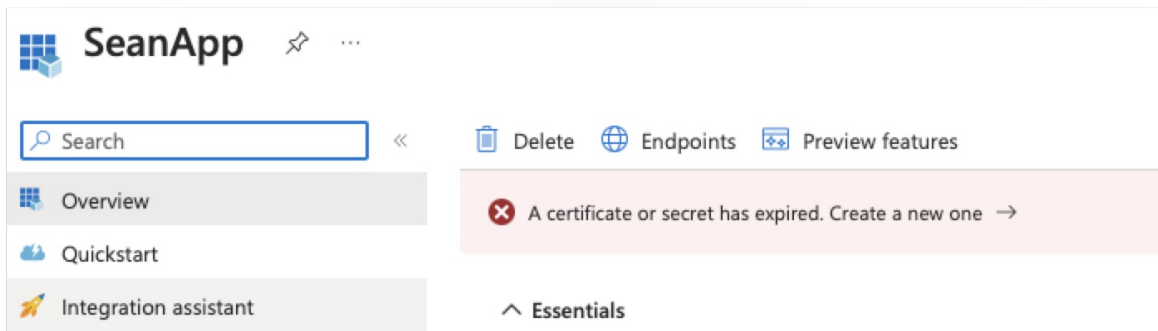
All applications Owned applications Deleted applications

Start typing a display name or application (client) ID to filter these r... Add filters

2 applications found

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

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



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

- Add a description
- Copy the Secret ID

This time though, Edit the current IdP in FileWave Anywhere:

- Open Settings in the FileWave Admin
- Choose Edit from the selected IdP
- Paste in the new Client Secret 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 #10

★Created 21 June 2023 20:18:10 by Josh Levitsky

✍Updated 15 October 2024 18:24:53 by Josh Levitsky