

# **Fathym Framework Registration**

Fathym's low-code framework is designed to give developers the freedom and best practice workflows to rapidly create IoT and data-driven applications that are agnostic to tools, platforms and clouds. The framework drastically cuts down development time by applying and automating a set of best practices. The cloud infrastructure Fathym uses is Microsoft Azure. You can set up an automated, enterprise-grade, Azure-hosted environment with just a few clicks.

The Fathym Framework configures the following for your organization:

- Configures an enterprise-scalable, cost-effective infrastructure on the Azure cloud (free for 30 days)
- o Deploys an SSL certificate for a secured application host
- Manages Azure, other clouds, and legacy infrastructure with our enterprise orchestration tools

Additionally, the Fathym Framework does the following for your organization's DevOps:

- Connects with your Azure DevOps instance and assists managing your code, builds,
  releases, and more
- Sets up Git-based source control for your infrastructure and connect it to builds for auto-deploying to Azure



Setting up the Fathym Framework includes the following topics:

- <u>Set up your Azure account</u>
- Configure your organization's details
- Connect your Azure account to Fathym
- Configure your organization's host
- Accept the terms and conditions
- Review and launch

# Prerequisites

Before setting up the Fathym Framework you will need to set up a Microsoft account for your organization so Fathym can connect with Microsoft Azure.

**Important:** In order to have access to the necessary permissions and settings required for setup in Azure, your Azure account needs to be at the administrator level.

Why an organization instead of an individual? Using organizational-level credentials allows multiple contributors on your team to access your organization's account.

## Set Up Your Azure Account

Setting up your Azure account includes the following tasks:

- Create a new registration
- Set up a contributor role
- Generate an app auth key

#### **Create a New Registration**

- 1. From the <u>Azure portal</u>, select **Azure Active Directory**.
- 2. From the left menu pane, select **App registrations**, then click **+New Registration**.

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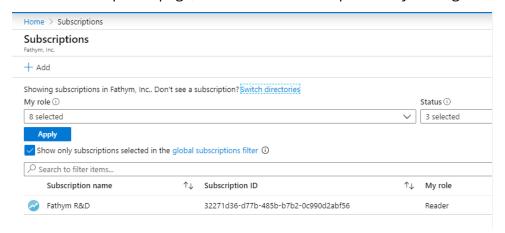
- 3. On Register an application, complete the following fields:
  - Name
    - This is your Display Name value.
  - **Supported Account Types** 
    - Select the Accounts in this organizational directory only option.
  - Redirect URI
    - Enter a web value, for example, https://www.yourcompany.com.
- 4. Click Register.

Close this pane using the X in the upper-right corner. Your application should display on the App registrations page under the Owned Applications tab.

#### Set Up an Azure Contributor Role

You will need to connect your Azure registration with your account.

- 1. From the Azure portal home page, select **Subscriptions**. Alternatively, you can type *subscriptions* in the search box at the top of the page.
- 2. On the Subscriptions page, select a valid subscription for your organization.



- On the left pane menu, select Access control (IAM).
- 4. On the Access control (IAM) page, select the **Role assignments** tab.
- 5. Click + Add, then select Add role assignment.
- 6. On the Add role assignment pane on the right, select **Contributor** for the Role field.

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- 7. Select **Azure AD user, group, or service principal** for the Assign access to field.
- 8. Select the registration you created in the previous section for the Select field.
- 9. Click **Save**.

You should see a banner popup confirming the role assignment, and the new contributor you added should display on the main section of the screen.

#### Generate an App Auth Key

To generate the value for the Azure App Auth key:

1. From the left menu pane of your organization's App Registration page in Azure, select Certificates & secrets.

A client secret is an alphanumeric string Azure uses to verify its identity when requesting a token.

- 2. In the Client secrets section, click + New client secret.
- 3. Enter a useful description, specify the expiration date, then click **Add**.
  - Example description: Fathym Platform Key.



Later in this setup process you will be asked to copy this value. However, do not copy it at this point—once you copy the secret's value it is not retrievable again.

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## Configure Your Organization's Details

- 1. Navigate to <u>fathym-int.com/setup/</u> and log in with your Microsoft credentials.
- 2. On Organization Details, complete the following required fields:
  - Organization Name
    - Enter a unique name. This name should match the value you used in the *Create a New Registration* section for the Display Name field.
  - Description
    - Enter a useful description for your organization.
  - Organization Lookup
    - This value is used throughout your organization's assets that Fathym sets up. Valid characters are lower-case letters and hyphens (-).



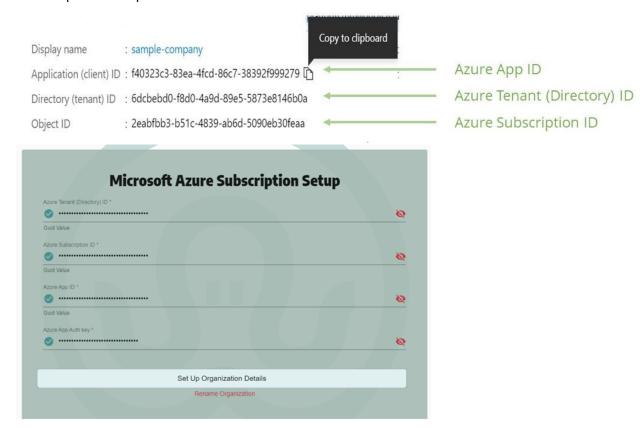
3. Click **Set Up Organization Details**.

## Connect Your Azure Account to Fathym

- 1. From the <u>Azure portal</u>, select **Azure Active Directory**.
- 2. From the left menu pane, select **App registrations**.
- 3. Under Display Name, select your organization.
- 4. Hover over each value to invoke the copy function.



5. Paste the value of each ID to its corresponding field on Fathym's Microsoft Azure Subscription Setup form:



- 6. To retrieve the Azure App Auth key value from Azure, go to the left menu pane of your organization's App Registration page, then select **Certificates & secrets**.
- 7. Locate your client secret and hover over the alphanumeric value to invoke the copy function.
  - Once you copy the secret's value it is not retrievable again.
- 8. Paste the new value in the Azure App Auth key field in Fathym.
- 9. Click Set Up Organization Details.

This process can take up to 15 minutes.



## Configure Your Organization's Host

To establish a shared host for your organization's site:

- 1. Complete the following required fields:
  - Root Domain
    - Select an available root domain from the drop-down arrow.
  - Host Address
    - Choose a URL for your web application.
- 2. Click Configure Organization Hosting.

# **Accept the Terms and Conditions**

From the Fathym Terms & Privacy tab in the left menu, review and accept the following agreements:

- Enterprise Agreement
- Terms and Conditions



#### **Review and Launch**

- 1. From the Adding [your organization] to the Ecosystem page, click **Get Connected** with Azure DevOps.
- 2. On the Low Code Unit page, review the listed permissions and click **Accept**.

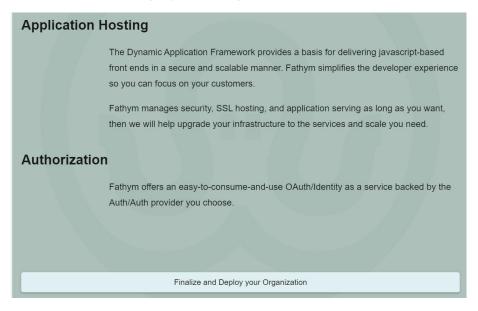


3. Under Comprehensive DevOps, click **Get Connected & Launch Your Organization**.



This process may take several minutes.

4. Click Finalize and Deploy Your Organization.



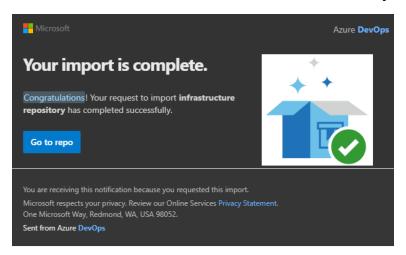
This process may take several minutes.

Fathym has configured the following resources for your organization:

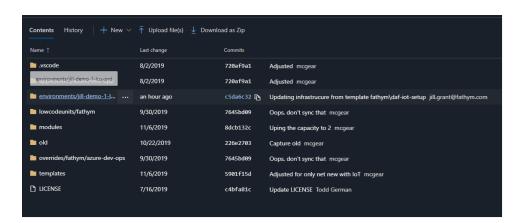
- Continuous integration
- Build/release pipeline
- o Complex, enterprise-scale infrastructure
- SSL certificate
- Git-based source control connected to builds for auto-deploying

Fathym configures all these resources in 15 minutes – a task that would take a developer days or weeks to set up.

You should receive an email from Azure DevOps indicating your import is complete. The email is sent to the email address associated with your Azure account.

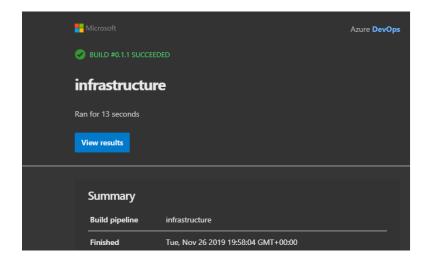


5. Click **Go to repo** to access your new Azure repository:



You will receive additional emails from Azure DevOps regarding your builds:





6. From your Fathym setup page, click **Open Enterprise IDE** to view your organization's finalized platform on the URL you specified.

Congratulations! You are ready to go.

