



Share Workspaces as Apps

Learning Objectives

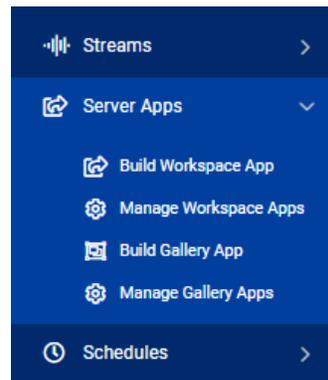
After completing this unit, you'll be able to:

- Differentiate between sharing a workspace via permissions and via a Server App.
- Understand when to use Server Apps.
- Understand when to use Webhook URLs with Server Apps.

FME Server Apps

Sharing a repository is an excellent option for sharing workspaces with other users who also have access to FME Server, but what if you want to allow anyone to be able to submit a job without needing to have an account on FME Server?

This can be accomplished using FME Server Apps. You can create an FME Server App by clicking on Server Apps from the FME Server Menu:



To manage FME Server Apps, click on Manage Workspace Apps. From here, you can manage all your existing apps and create new ones.

Server Apps ? 👤

Workspace Apps | Gallery Apps

[+ New](#) [Actions](#) [☰](#)

Search

<input type="checkbox"/>	Name	Repository	Workspace	Enabled	Expiration	Last Updated	Last Updated By	Owner	View	URL
<input type="checkbox"/>	DataDownloadApp	Samples	austinDownload.fmw	<input checked="" type="checkbox"/>	2032-5-10 00:00:00	2022-5-10 10:59:39	admin	admin	👤	📄

When creating a new Server App, you will be able to select which workspace you would like your app to run and also set an expiration date for the app. This is useful if you would like to temporarily share the app, then disable it after a set period of time.

Create Workspace App

Name

Title (optional)

Description (optional)

B **I** **H**

A simple app for FME Training

Repository

Workspace ★

Service

Expiration

Will expire in 10 years.

Require Authentication

User Can Upload

Next, you can select which Published Parameters you would like to be displayed for your end-users to set when they use your Server App:

Parameters ▼

Show in App Reset

Source Geography Markup Language (GML) File(s) (optional)

Browse Resources OR Upload File

<https://s3.amazonaws.com/FMEData/FMEData2022/Data/Err>

Source Google KML File or URL

Browse Resources OR Upload File

<https://s3.amazonaws.com/FMEData/FMEData2022/Data/Bo>

And finally, you can customize the appearance of your Server App by changing the background color, adding logos, icons, and banners.

An FME Server App URL will then be generated. Anyone with that URL will be able to run the app that you created without having to log into FME Server first.

Server Apps ⓘ

[Workspace Apps](#) | [Gallery Apps](#)[Workspace Apps](#) > [MyServerApp](#) > Create

Your Workspace App has been created

Anyone with this URL will be able to run this app. A login will not be required.

<http://localhost/fmeserver/apps/MyServerApp> 📄

Name: MyServerApp

Expiration: 2032-5-26 00:00:00

App Security

The following permissions have been granted to run your app and are saved with the API Token [Workspace App - MyServerApp](#).

Repositories Training

Services Job Submitter, Data Upload

Does your workspace have any additional dependencies? [Add More Permissions](#).

Workspace Apps and FME Data Express

Alternatively, you can run workspace apps on mobile devices with FME Data Express. [Learn more about FME Data Express and how you can download it.](#) ⓘ



OK

The FME Server App link will open up a simplified Run Workspace page:



FME SERVER

FME Training Demo App

A simple app for FME Training

Source Geography Markup Language (GML) File(s) (optional)

OR



You can also create an FME Server App from the Run Workspace page for any workspace by clicking on Workspace Actions > Create Workspace App or from under the Advanced parameters section. This can be a handy shortcut as it will open the Create Workspace App page directly and automatically select the Workspace for you.



New for FME Server 2020.1: Gallery Apps. Gallery Apps act as landing pages for several Workspace Apps and URLs. They can be fully customized to suit your organization's needs, all without any coding! For more information see the unit later in this module: [Use Gallery Apps](#).

View an Example

[View an example FME Server App](#). This app provides a simple self-serve spatial data download service. By using a data distribution map for retrieving data, a user can download datasets for their selected area of interest. This can save users the tedious tasks of cleaning, transforming, and converting their data which will allow them to jump directly into the analysis phase.



Data Distribution Service

This application provides an interface for the user to select a study area by drawing a polygon. Once the polygon is drawn, the user can continue building up a request by selecting the layers they wish to download and the format and the coordinate system of the returned data.

Layers to Download	Empty	▼
Area of Interest	<input type="text"/>	
Output Coordinate System	UTM with NAD83 datum, Zone 10, Meter; Central Meridian 123d W [UTM83-10] ▼	
Output Format	Google KML ▼	

OK

Webhook URL

While FME Server Apps allow other people to run a workspace on FME Server, a Webhook allows for an application to programmatically run a workspace. A Webhook URL will include all the workspace parameters directly in the URL itself. So, when the URL is triggered, it will immediately run the workspace without the need to prompt for those parameter values.

Webhooks are useful for building your own web applications that access FME Server services because you can copy the HTTP request and embed it on your own website or a 3rd party application. You could also embed the URL into an email, or paste the URL directly into a web browser.

You can create a Webhook URL from the Run Workspace page for any workspace. Once you have selected your workspace to run, click on Workspace Actions > Create Webhook or go to the Advanced parameters and select Create a Webhook from there.

Run Workspace ? 👤

Training/exercise-publish-to-fme-server

Repository	Training
Workspace	exercise-publish-to-fme-server.fmw ★
Service	Job Submitter
Email results to ?	

Workspace Actions

- Edit Services
- Download
- View
- Run
- Create Workspace App
- Create Webhook

You will then be able to configure your Webhook. You can set an expiry time to control how long the URL will be active and also decide what values should be filled in for any Published Parameters associated with the workspace.

Create Webhook ⓘ



Share Training/exercise-publish-to-fme-server

Webhook URL

Webhook URL Preview:

[http:// FMETRAINING/fmejobsubmitter/Training/exercise-publish-to-fme-server.fmw?SourceDataset_GML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FEmergency%2FFireHalls.gml&SourceDataset_OGCKML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FBoundaries%2FVancouverNeighborhoods.kml&opt_showresult=false&opt_servicemode=sync](http://FMETRAINING/fmejobsubmitter/Training/exercise-publish-to-fme-server.fmw?SourceDataset_GML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FEmergency%2FFireHalls.gml&SourceDataset_OGCKML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FBoundaries%2FVancouverNeighborhoods.kml&opt_showresult=false&opt_servicemode=sync) 📄

This webhook enables third-party software to programmatically run this workspace. Note that the API token associated with this webhook allows access to run any other workspaces in the same repository that are registered to the same service.

Token Name

Webhook - exercise-publish-to-fme-server from Training -

Description

Allow users to run Training/exercise-publish-to-fme-server without logging in

Expiration

2023-05-26 00:00 📅

Will expire in a year.

User Can Upload ⓘ



Additional Permissions

📁 Resources



Parameters >

Cancel

OK

When finished, your Webhook URL will be generated and you will be able to download a text file containing the Webhook information and see some examples of how to use the Webhook within 3rd party or custom applications.

Create Webhook ?



Share Training/exercise-publish-to-fme-server

Webhook URL

This webhook will run with the parameters configured on the Run Workspace page. [Change Parameters](#)

To use the webhook, a token can be specified in a header or query string parameter. For security reasons, providing the token in a header is the preferred method, because a request URL may be logged by proxies or web servers.

This is the only time you will be able to access the token and instructions to use this webhook. You can save the information now.

[Download Webhook](#)

Authorization with Header

Use the following URL and specify the Authorization header in your request header. Note that this method will not work with a GET request.

[http:// FMETRAINING/fmejobsubmitter/Training/exercise-publish-to-fme-server.fmw?SourceDataset_GML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FEmergency%2FFireHalls.gml&SourceDataset_OGCKML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FBoundaries%2FVancouverNeighborhoods.kml&opt_showresult=false&opt_servicemode=sync](http://FMETRAINING/fmejobsubmitter/Training/exercise-publish-to-fme-server.fmw?SourceDataset_GML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FEmergency%2FFireHalls.gml&SourceDataset_OGCKML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FBoundaries%2FVancouverNeighborhoods.kml&opt_showresult=false&opt_servicemode=sync)

Header Key	Header Value
Authorization	fmetoken token=b13bde4caa743f51d6acd1c32a347315c1f767bd

Authorization with Query String

http://FMETRAINING /fmejobsubmitter/Training/exercise-publish-to-fme-server.fmw?SourceDataset_GML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FEmergency%2FFireHalls.gml&SourceDataset_OGCKML=https%3A%2F%2Fs3.amazonaws.com%2FFMEData%2FFMEData2022%2FData%2FBoundaries%2FVancouverNeighborhoods.kml&opt_showresult=false&opt_servicemode=sync&token=b13bde4caa743f51d6acd1c32a347315c1f767bd

