



Share Content In FME Server

Learning Objectives

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

- Share a repository with other FME Server users.
- Understand how to share a workspace with anyone using a Server App.
- Understand how to share a workspace with an app programmatically using a Webhook URL.

Sharing FME Server Content

FME Server security is based on whether you own a component or have been given access to it. A component might be a set of functionality or an object like a repository.

When you create something, you have full permission for that component. Even if you don't have permission to manage security on your FME Server, you do have the ability to share a component that you own with another user.

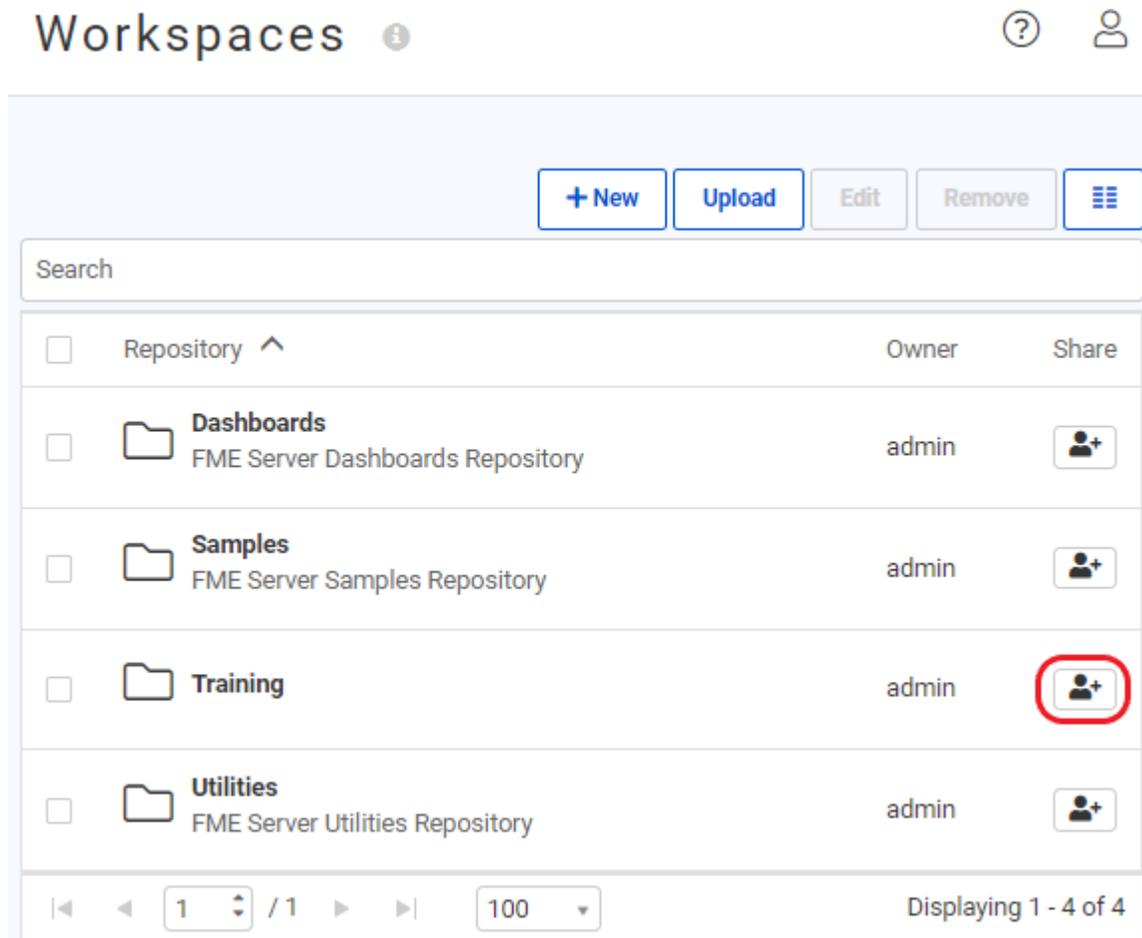
Generally, sharing works two ways depending on the method:

1. Sharing a component with other FME Server users through the Sharing Options dialog.
2. Sharing a workspace with users without an FME Server account through Server Apps, Webhook URLs, or the FME Server REST API.

Sharing a Repository

Choose the menu option for Workspaces in the Server web interface and you are presented with a list of repositories on the system.

If you are the owner of a repository, then you have the ability to click the button to *Share with Others*:



This opens a pop-up dialog in which to select a user and choose the level of permission that you wish to give to them:

Sharing Options

Share repository 'Training'

 **guest** (Guest) ▼

Shared with 1 user(s) and 0 role(s). ▼

Choose permission ▲

-  Can Run
-  Can Download
-  Full Access

FME Security is also based on users and roles. Roles are analogous to a group of users. When sharing a component, the "user" field can be an individual user, or it can be applied to a particular role; for example, you can give the ability to run workspaces in a repository to anyone in the *fmeuser* role.



This is a very important capability. As an author, you might publish a workspace intended for use by multiple users within FME Server. However, the workspace is of little use if those users don't have access to it.

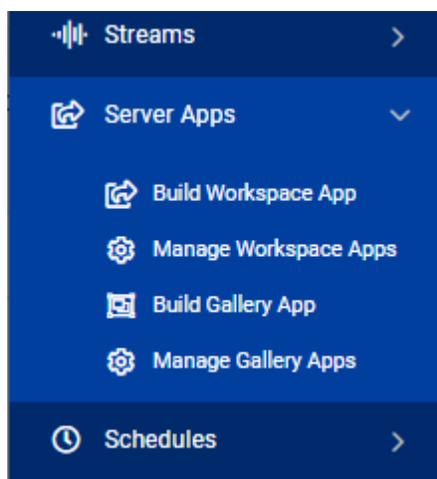
The Sharing Options dialog allows you to open up access to your workspace, without you needing the advanced permissions required for full security control.

Besides repositories, other components of FME Server can also be shared with other users. Keep watch within the user interface for other sharing opportunities.

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 a Workspace 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	Today at 10:59:39	admin	admin	👤	📄

When creating a new Workspace 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	<input type="text" value="MyServerApp"/>
Title (optional)	<input type="text" value="FME Training Demo App"/>
Description (optional)	<div><p>B I H </p><p> </p><p>A simple app for FME Training</p></div>
Repository	<input type="text" value="Training"/>
Workspace	<input type="text" value="exercise-publish-to-fme-server.fmw"/> ★
Service	<input type="text" value="Job Submitter"/>
Expiration	<input type="text" value="2032-05-10 00:00"/> Will expire in 10 years.
Require Authentication ⓘ	<input type="checkbox"/>
User Can Upload ⓘ	<input checked="" type="checkbox"/>

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

Parameters ▼

Reset

Show in App

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

[Browse Resources](#) OR [Upload File](#)

<https://s3.amazonaws.com/FMEData/FMEData2022/Data/Emergency/FireHalls.gml>

Source Google KML File or URL

[Browse Resources](#) OR [Upload File](#)

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

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

An FME Server Workspace 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 > Edit

Your Workspace App has been saved

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: 2032-5-10 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 Workspace App link will open 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

m/FMEDData/FMEDData2022/Data/Emergency/FireHalls.gml



You can also create an FME Server Workspace 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 FME Server App page directly and automatically select the Workspace for you.



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 [Getting Started with Gallery Apps](#).

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.



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

Create Webhook ?



Run Workspace > Create Webhook

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

Webhook URL

Webhook URL Preview:

http://FMETRAINING2/fmejobsubmitter/Training/exercise-publish-to-fme-server.fmw?SourceDataset_GML=https%3A%2F%2Fs3.amazonaws.com%2FFMEDData%2FFMEDData2022%2FData%2FEmergency%2FFireHalls.gml&SourceDataset_OGCKML=https%3A%2F%2Fs3.amazonaws.com%2FFMEDData%2FFMEDData2022%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 - 579c

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

Expiration 2023-05-11 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.

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 

Header Key	Header Value
Authorization	fmetoken token=7c48f2cfae602064901564fd9a766da7368982e7

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&oken=7c48f2cfae602064901564fd9a766da7368982e7 

FME Server REST API

In more advanced use cases, you can also share the results of workspaces with users that don't have an FME Server account using the FME Server REST API. You can make an API call to the server to run a workspace and include the results in your external applications.



The webhook URL can make use of the FME Server services (Data Download, Data Streaming), whereas the REST API can only submit jobs using the REST service, which acts similarly to the Job Submitter service. You can see [demos using the FME Server REST API](#) or [read the documentation](#).

Next Module: [Manage FME Server Data and Connections](#)



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English

