

App Studio 4.0 Getting Started

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Installation

App Studio is installed when installing Fusion Server.

What's next

- See [Startup and Shutdown](#) for information about using the App Studio scripts.
- See [Create a New Web App](#) to learn how to create your first search app.

Startup and Shutdown

App Studio has two scripts for startup and shutdown in the root directory of an App Studio project (`app-studio`):

- `app-studio.sh` – A Bash script for Linux and macOS
- `app-studio.bat` – A batch file for Windows

You also use these scripts to build an app from source.

Obtain usage information

For usage information, enter:

- Linux and macOS: `./app-studio.sh -help`
- Windows: `app-studio.bat -help`

For command-specific usage information, enter:

- Linux and macOS: `./app-studio command -help`
- Windows: `app-studio.bat command -help`

Below, optional parameters are indicated by square brackets, which you don't type.

Startup commands

- Linux and macOS: `./app-studio start [--production] [-f] [-p port] [-m memory] [-t timeout] [-V]`
- Windows: `app-studio.bat start [-f] [-p port] [-m memory] [-t timeout] [-V]`

Shutdown commands

- Linux and macOS: `./app-studio stop [-p port] [-V]`
- Windows: `app-studio.bat stop [-p port] [-V]`

Parameters

Bold italic text is a placeholder for a value. For example, for `-m memory` you might use `-m 4g`.

Parameter	Description
<code>--production</code>	Start the app in production mode, which disables the configuration wizard and the code editor.
<code>-f</code>	Start App Studio in the foreground. By default, App Studio starts in the background.
<code>-p port</code>	Specify the port on which the App Studio web server will listen. The default port is 8080.
<code>-m <i>memory</i></code>	Set the minimum (<code>-Xms</code>) and maximum (<code>-Xmx</code>) heap size for the JVM. For example, <code>-m 4g</code> results in: <code>-Xms4g -Xmx4g</code> . The default heap size is <code>512m</code> .
<code>-t timeout</code>	Set the startup timeout in seconds.
<code>-V</code>	Output verbose messages from the script.

Starting and stopping multiple App Studio instances

You can run multiple instances of App Studio on a single host by specifying different ports for all instances. Do this on startup, at the command line, using the `-p` parameter, for example:

```
./app-studio.sh start -p 9000
```

When running multiple instances, also use the `-p` flag to indicate which instance of App Studio to shut down, for example:

```
./app-studio.sh stop -p 9000
```

What's next

- See [Create a New Web App](#) to learn how to create your first search app.
- See [Customizing Your Application](#) to learn about App Studio's markup templating language and how app pages are constructed.

Create a New Web App

The current version of App Studio creates a single-page search application that you can further customize through the built-in code editor.

Prerequisites

The instructions in this topic assume that you have a running instance of Fusion Server, with one or more collections of indexed data and at least one query profile.

How to create a new Web app

1. In the Fusion workspace, navigate to **App Studio > Build New UI**.

[appstudio menu item]

2. On the **Set Query Source** page, select the query profile to use for your search UI:

[appstudio set query source]

3. Click **Next**.

App Studio connects to the specified collection and query profile to analyze your searchable data:

[appstudio analysis complete]

4. Click **Next**.

5. On the **Set Result Title** page, select the field to use as the title of each search result:

[appstudio set result title]

Optionally, you can select a **Target URL** field, which contains the URL to use as the link in each search result.

6. Click **Next**.

7. On the **Set Result Description** page, select the field to use as the description of each search result:

[appstudio set result description]

8. Click **Next**.

9. On the **Set Facets and Additional Fields** page, select one or more multi-valued fields to use as facets:

[appstudio set facets]

Note	In some cases, facet fields aren't selectable in the wizard. In this case, you can define facets later using markup.
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Optionally:

- Select **Enable search within facet** to add a search box for searching the facet field names to the Facets pane.
[appstudio search facet names]
- Enter a user-friendly label for each facet field, such as "Genre" instead of "genres_ss".
- Select **Include in results as Additional Field** to display the values of the facet fields within each search result.

10. Click **Next**.

11. On the **Customize UI** page, enter a title and select a color theme:

[appstudio customize ui]

12. Click **Save and Launch UI**.

A preview of your search interface and data appear:

[appstudio default ui]

Note	It can take about a minute for the preview to appear. If the preview doesn't appear, refresh the browser tab.
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After you've created a search UI, you can open it from the Fusion workspace by navigating to the **App Studio** menu and selecting the search UI:

[appstudio menu project]

What's next

- See the [App Development Guide](#) to learn about App Studio's markup templating language and how app pages are constructed.
- The [Deployment Guide](#) explains how to deploy your customized app in a production environment.

Licensing

App Studio is licensed with Fusion Server.