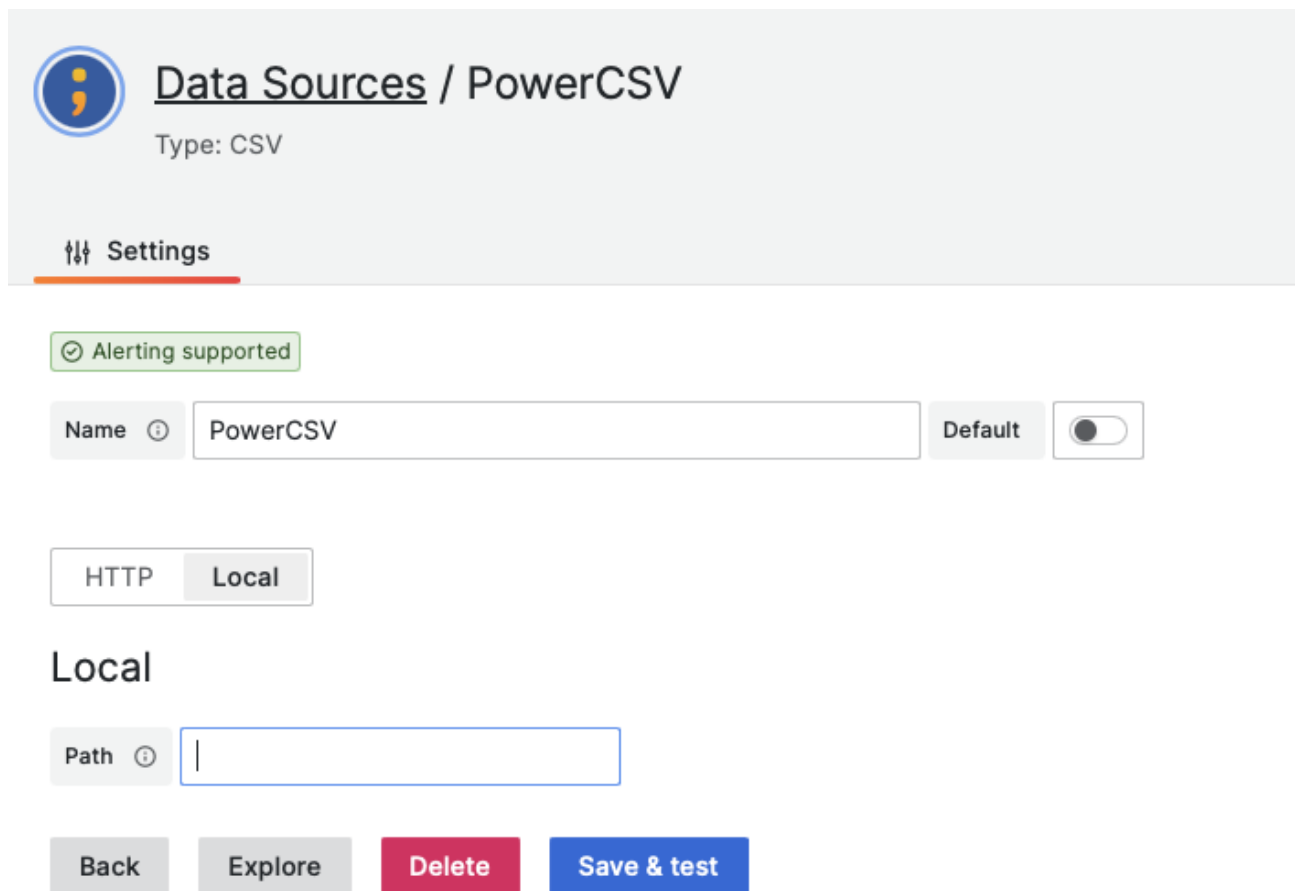


Configure Grafana Plugins and CSV Data Sources

Some Grafana plugins need access to additional files. This example configures the Marcus Olsson CSV data source plugin for a local file or an HTTP URL.

When adding the CSV plugin as a data source, choose Local or HTTP and provide the corresponding file path or URL:



Data Sources / PowerCSV
Type: CSV

Settings

✓ Alerting supported

Name ⓘ PowerCSV Default ☐

HTTP Local

Local

Path ⓘ

Back Explore Delete Save & test

Local data source

By default, local data sources are not allowed. It is possible to overcome this via the Grafana 'ini' file, however this has limitations.

The FileWave Grafana 'ini' file is defined as:

```
/usr/local/etc/filewave/grafana/conf/filewave.ini
```

Enablement of Local files is achieved by adding the following into this file:

```
[plugin.marcusolsson-csv-datasource]
allow_local_mode = true
```

After doing so, the server service should be restarted:

```
fwcontrol server restart
```

Local files may now be accessed with this plugin. However, the caveat is that this file is overwritten by the FileWave installer on each upgrade. The outcome is the file must therefore be edited on each upgrade attempt.

HTTP data source

HTTP Data Source has no similar caveat. If there is already an available HTTP share in-house, this could be utilised. However, the FileWave Server could have the apache configuration adapted to include such files.

Configure Apache

This process will rely on Apache having access to a directory which serves these files. This could either be one that already exists or configuration could be used to add a new directory to serve just the required files.

 Create a dedicated directory for plugin-served files so they remain separate from FileWave application content.

 This is editing FileWave Server files and folders. FileWave upgrades can overwrite files, folders or expansion of product may include new files and folders. Consider using a directory that is unlikely to clash with future updates.

In this example, the new chosen folder is:

```
/usr/local/filewave/grafana_plugins_custom/csv
```

'grafana_plugins_custom' does not yet exist. Rather than just creating one custom plugin folder for all possible plugin use, in this example a subdirectory for the CSV files has been created. Additional plugins that also required http file shares could use the same parent, but have their own subfolder.

The Apache file that can be edited to create new http file shares is:

```
/usr/local/filewave/apache/conf/httpd_custom.conf
```

Because `httpd_custom.conf` is the FileWave custom Apache configuration, its entries persist across FileWave upgrades.

```
Alias /plugins_custom /usr/local/filewave/grafana_plugins_custom/csv
<Directory "/usr/local/filewave/grafana_plugins_custom/csv">
Options Indexes FollowSymLinks
AllowOverride All
```

```
Require all granted
</Directory>
```

See the [Apache 2.4 host authorization documentation](#) for `Require` options that can restrict access by host or IP address.

However, to highlight two key aspects.

Directory

This is the newly created directory from which the files may be shared from

Alias

When accessing the files from a URL, this is essentially a shortcut for the URL, which will be redirected internally to this folder on access. In this instance, the alias (shortcut link) is:

```
/plugins_custom
```

 `Require all granted` allows every client that can reach this URL to download the CSV file. If the data is not intended for broad access, replace it with an appropriate `Require ip` or other authorization rule and test access before configuring Grafana.

FileWave Server process should be restarted once configured:

```
fwcontrol server restart
```

Verify CSV file access

Once configured, CSV files may be populated into the newly created document. For example:

```
# ls -l /usr/local/filewave/grafana_plugins_custom/csv
total 184
-rw-r--r-- 1 root _www 14425 Aug  3 17:06 admin.csv
-rw-r--r-- 1 root _www 19364 Aug  3 17:06 data.csv
-rw-r--r-- 1 root _www 36694 Aug  3 17:06 paint.csv
-rw-r--r-- 1 root _www 19345 Aug  3 17:06 video.csv
```

Test download may be achieved by way of the server URL appended with the alias. For example if the server were called 'demo.filewave.ch', then the URL from the above configuration would be:

```
https://demo.filewave.ch/plugins_custom/
```

However, a file should be addressed directly. Taking the paint.csv as an example:

```
https://demo.filewave.ch/plugins_custom/paint.csv
```

Accessing this URL in a browser should show the contents or download the file.

Plugin Data Source

Now an Apache share has been created with populated files, a Data Source may be configured to use HTTP for access to the files.



Data Sources / VideoCSV

Type: CSV

⌵⌵⌵ Settings

✔ Alerting supported

Name ⓘ PaintCSV

Default ☐

HTTP Local

HTTP

URL ⓘ https://demo.filewave.ch/plugins_custom/paint.csv

ⓘ Other Data Source settings should be configured as desired.

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