Cloudera Flow Management 2.1.5

Cloudera Flow Management Reference

Date published: 2019-06-26 Date modified: 2023-11-02



Legal Notice

© Cloudera Inc. 2025. All rights reserved.

The documentation is and contains Cloudera proprietary information protected by copyright and other intellectual property rights. No license under copyright or any other intellectual property right is granted herein.

Unless otherwise noted, scripts and sample code are licensed under the Apache License, Version 2.0.

Copyright information for Cloudera software may be found within the documentation accompanying each component in a particular release.

Cloudera software includes software from various open source or other third party projects, and may be released under the Apache Software License 2.0 ("ASLv2"), the Affero General Public License version 3 (AGPLv3), or other license terms. Other software included may be released under the terms of alternative open source licenses. Please review the license and notice files accompanying the software for additional licensing information.

Please visit the Cloudera software product page for more information on Cloudera software. For more information on Cloudera support services, please visit either the Support or Sales page. Feel free to contact us directly to discuss your specific needs.

Cloudera reserves the right to change any products at any time, and without notice. Cloudera assumes no responsibility nor liability arising from the use of products, except as expressly agreed to in writing by Cloudera.

Cloudera, Cloudera Altus, HUE, Impala, Cloudera Impala, and other Cloudera marks are registered or unregistered trademarks in the United States and other countries. All other trademarks are the property of their respective owners.

Disclaimer: EXCEPT AS EXPRESSLY PROVIDED IN A WRITTEN AGREEMENT WITH CLOUDERA, CLOUDERA DOES NOT MAKE NOR GIVE ANY REPRESENTATION, WARRANTY, NOR COVENANT OF ANY KIND, WHETHER EXPRESS OR IMPLIED, IN CONNECTION WITH CLOUDERA TECHNOLOGY OR RELATED SUPPORT PROVIDED IN CONNECTION THEREWITH. CLOUDERA DOES NOT WARRANT THAT CLOUDERA PRODUCTS NOR SOFTWARE WILL OPERATE UNINTERRUPTED NOR THAT IT WILL BE FREE FROM DEFECTS NOR ERRORS, THAT IT WILL PROTECT YOUR DATA FROM LOSS, CORRUPTION NOR UNAVAILABILITY, NOR THAT IT WILL MEET ALL OF CUSTOMER'S BUSINESS REQUIREMENTS. WITHOUT LIMITING THE FOREGOING, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLOUDERA EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, NON-INFRINGEMENT, TITLE, AND FITNESS FOR A PARTICULAR PURPOSE AND ANY REPRESENTATION, WARRANTY, OR COVENANT BASED ON COURSE OF DEALING OR USAGE IN TRADE.

Contents

4
4
4
5
5
5
6
6
6
7

Property enhancements

You can use the Cloudera Manager Safety Valves feature to extend CFM components beyond the default properties exposed in Cloudera Manager. The following sections describe how to configure different types of property files generated and used by NiFi and NiFi Registry.

XML property enhancements

In order to configure xml property files, dot notation is leveraged in order to represent the actual schema for a given property file. This allows users to enhance or overwrite xml based properties in Cloudera Manager using. The structure for naming is as follows:

```
xml.class
xml.cpreperties-type>.<entity>.<identifier>.class
xml.cpreperty-value>
```

Supported properties types for NiFi are authorizers (authorizers.xml) and loginIdentityProviders (used in login-identity-providers.xml). For NiFi Registry supported types are authorizers and identityProviders.

The below property key/value example creates a user group provider entry into the authorizers file for NiFi:

```
Name: xml.authorizers.userGroupProvider.file-user-group-provider.class
Value: org.apache.nifi.authorization.FileUserGroupProvider

Name: xml.authorizers.userGroupProvider.file-user-group-provider.property
.Initial User Identity 2
Value: CN=localhost, OU=NIFI
```

This translates to the following entry in the generated authorizers.xml file:

Properties names that have spaces are supported and do not need to be escaped.

Bootstrap and Properties file enhancements

Both Bootstrap and Properties files can be enhanced using their respective safety valves (which are used to generate those respective files). The key and value can be entered using the property editor or as hadoop property styled XML.

Below is an example of Safety Valve enhancements for nifi.properties, which decreases default flow election wait time:



When entering safety valves be aware that if a property shares the same name as one already defined in CM it will override that value.

The NiFi Section for default values can be overridden using safety valves. These can be pasted in as needed using the View as XML link for nifi.properties.xml safety valve. See the *NiFi Documentation* for available property values and usages.

The NiFi Registry section for default values can be overridden using safety valves. These can be pasted in as needed using the View as XML link for nifi.registry.properties.xml safety valve. See the *NiFi Registry Documentation* for available property values.

Apache NiFi REST API Reference

See the Apache NiFi documentation to access the Apache NiFi REST API documentation.



Important: The Apache NiFi documentation is available both online and in the NiFi UI. The online documentation always shows the latest version of the NiFi documentation. There may be differences in the content compared to the version of NiFi you are using. You can access the documentation corresponding to the NiFi version you are using directly from the NiFi UI.

- 1. Launch the NiFi UI.
- 2. From the Global Menu, select Help Documentation.

Related Information

Apache NiFi REST API documentation

Apache NiFi RecordPath Guide

See the Apache NiFi documentation to access the *Apache NiFi RecordPath Guide*.



Important: The Apache NiFi documentation is available both online and in the NiFi UI. The online documentation always shows the latest version of the NiFi documentation. There may be differences in the content compared to the version of NiFi you are using. You can access the documentation corresponding to the NiFi version you are using directly from the NiFi UI.

- 1. Launch the NiFi UI.
- 2. From the Global Menu, select Help Documentation.

Related Information

Apache NiFi RecordPath Guide

Apache NiFi Expression Language Guide

See the Apache NiFi documentation to access the Apache NiFi Expression Language Guide.



Important: The Apache NiFi documentation is available both online and in the NiFi UI. The online documentation always shows the latest version of the NiFi documentation. There may be differences in the content compared to the version of NiFi you are using. You can access the documentation corresponding to the NiFi version you are using directly from the NiFi UI.

- 1. Launch the NiFi UI.
- 2. From the Global Menu, select Help Documentation.

Related Information

Apache NiFi Expression Language Guide

Apache NiFi System Administrator Guide

See the Apache NiFi documentation to access the Apache NiFi System Administrator's Guide.



Important: The Apache NiFi documentation is available both online and in the NiFi UI. The online documentation always shows the latest version of the NiFi documentation. There may be differences in the content compared to the version of NiFi you are using. You can access the documentation corresponding to the NiFi version you are using directly from the NiFi UI.

- 1. Launch the NiFi UI.
- 2. From the Global Menu, select Help Documentation.

Related Information

Apache NiFi System Administrator's Guide

Apache NiFi Developer Guide

See the Apache NiFi documentation to access the Apache NiFi Developer's Guide.



Important: The Apache NiFi documentation is available both online and in the NiFi UI. The online documentation always shows the latest version of the NiFi documentation. There may be differences in the content compared to the version of NiFi you are using. You can access the documentation corresponding to the NiFi version you are using directly from the NiFi UI.

- 1. Launch the NiFi UI.
- 2. From the Global Menu, select Help Documentation.

Related Information

Apache NiFi Developer's Guide

Apache NiFi Registry REST API

See the Apache NiFi Registry documentation to access the Apache NiFi Registry REST API documentation.



Important: The Apache NiFi Registry documentation is available both online and in the NiFi Registry UI. The online documentation always shows the latest version of the NiFi Registry documentation. There may be differences in the content compared to the version of NiFi Registry you are using. You can access the documentation corresponding to the NiFi Registry version you are using directly from the NiFi Registry UI.

- 1. Launch the NiFi Registry UI.
- 2. From the Global Menu, select Help Documentation.

Related Information

Apache NiFi Registry REST API documentation

Apache NiFi Registry System Administrator Guide

See the Apache NiFi Registry documentation to access the Apache NiFi Registry System Administrator's Guide.



Important: The Apache NiFi Registry documentation is available both online and in the NiFi Registry UI. The online documentation always shows the latest version of the NiFi Registry documentation. There may be differences in the content compared to the version of NiFi Registry you are using. You can access the documentation corresponding to the NiFi Registry version you are using directly from the NiFi Registry UI.

- 1. Launch the NiFi Registry UI.
- 2. From the Global Menu, select Help Documentation.

Related Information

Apache NiFi Registry System Administrator's Guide