PingFederate®

REST Data Source 1.0.0

User Guide

PingFederate

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Note that Ping Identity may not provide support for any sample configurations provided in this document. The variability inherent among security environments prevents full testing and support for all possible platform configurations. If you need special assistance or would like to inquire about implementation or support programs, please contact Ping Identity Global Client Services (support.pingidentity.com).

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PingFederate System Requirements	REST Data Source 1.0.0	4
Installation		
Configuring a REST Data Source Instance		4
Configure a Data Source on an SP Connection		5
Debugging		6

System Requirements

This version of the PingFederate REST Data Source requires the following:

• PingFederate 8.3.1 (or higher).

Installation

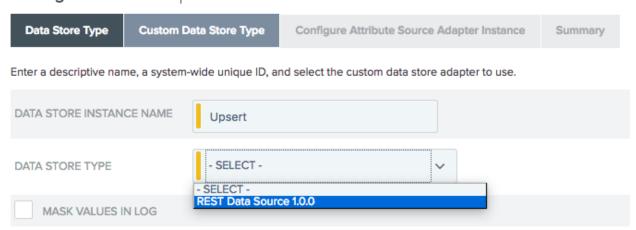
 From the /dist in the ZIP file, copy the following file to the <pf_install>/pingfederate/server/default/deploy directory: commons-jxpath-1.3.jar rest-data-source-1.0.0.jar

2. Start or restart PingFederate.

Configuring a REST Data Source Instance

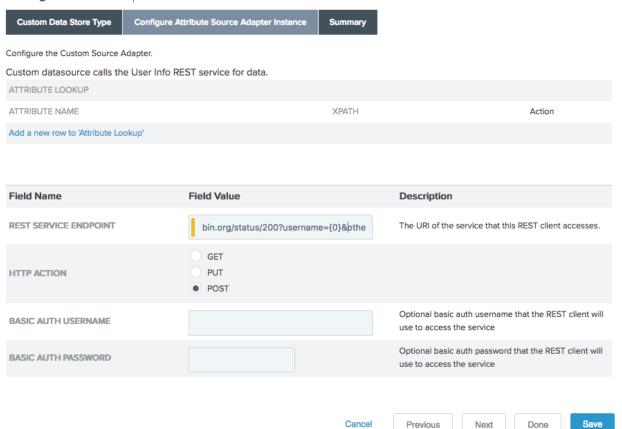
- 1. Log on to the PingFederate administrative console and click **Data Stores** under Server Configuration -> System Settings.
- 2. On the Manage Data Stores screen, click Add New Data Store...
- 3. On the Data Store Type screen, check Custom and click Next.
- 4. Enter a Data Store Instance Name and select REST Data Source 1.0.0, and click Next.

Manage Data Stores | Data Store



Complete the configuration fields as described on the Configure Attribute Source Adapter Instance screen and click Next.

Manage Data Stores | Data Store



Please note that there is variable substitution on the endpoint using the values mapped in the connection in order. For example if the endpoint is http://httpbin.org/status/200?username={0}&otherparam={1} and in the connection the filter field is \${username},\${lastname} where \${username} is john and \${lastname} is Smith then the endpoint will become http://httpbin.org/status/200?username=john&otherparam=Smith. Also note that if PUT or POST are specified then the query parameters will be removed and converted to form parameters.

6. Click **Done** and **Save** until you reach the Main Menu screen.

Configure a Data Source on an SP Connection

- From the IdP Adapter Mapping screen, check Retrieve Additional Attributes From... and click Next.
- Click Add Attribute Source and select you defined previously and click Next.
- 3. On the Configure Custom Source Filter screen enter the query filter criteria as described on the screen.

Note: You can use expressions to refer to the attribute variables from assertions and Adapters and those you retrieved as fields from the data source.

\${<attribute name>} - for an attribute from an assertion or an Adapter.

Osei Lookup					
Data Store	Configure Custom Source Filters	Configure Custom Source Fields	Summary		
Perform any filter configuration for the Custom Source.					
Provide the connection-specific parameters to execute the user lookup. Attributes may be mapped with the \${attribute_name} syntax. (e.g. \${username})					
Field Name	Field	Value	Description		
HTTP PARAME	TERS \${u	username},avalue	Commas seperated list of paramaters.		
		Cance	cel Previous Next Done Save		

- 4. On the Configure Custom Source Fields screen, check the possible return attributes you would like to include for attribute mapping, click **Next**, **Done** and **Next**.
- 5. On the Adapter Contract Fulfillment screen, map the attributes from the assertion and this data source as needed to fulfill the contract, and click **Next**.
- 6. Click **Done** and **Save** until you are back to the Main Menu screen.

Debugging

To set the log level for this data source (what appears in server.log) one would update the following file:

<PingFederateInstall>/server/default/conf/log4j2.xml

And add the following entry into

</logger>

After restarting log items like the following will be logged:

11:49:00,870 DEBUG [CustomAttributeSource] Custom Attr Src search: search attrNames=[]

11:49:00,871 DEBUG [RemoteCallDataSource] Begin retrieveValues

 $11:\!49:\!00,\!871$ DEBUG [RemoteCallDataSource] Iterating over provided FilterConfigration Fields. Size is 1

11:49:00,871 DEBUG [RemoteCallDataSource] Provided Field was: [Field:HTTP Parameters=john,avalue]

11:49:00,871 DEBUG [RemoteCallDataSource] Iterating over the attributeNamesToFill. Size is 0

11:49:00,875 DEBUG [UserInfoRequest] URL:

http://httpbin.org/status/200?username=john&otherparam=avalue

11:49:01,220 DEBUG [JsonUserInfoResponse] JSON String Recevied:

11:49:01,221 DEBUG [RemoteCallDataSource] End retrieveValues

11:49:01,221 DEBUG [CustomAttributeSource] Custom Attr Src search result: {HTTPStatus=200}

Detailed training on using in ping federate Log4j can be found at:

 $https://documentation.pingidentity.com/pingfederate/pf83/index.shtml\#adminGuide/pf_c_log4j2\\ LoggingServiceAndConfiguration.html$