

Apromore Module Connector Reference

Configurations

Config

Parameters

Name	Type	Description	Default Value	Required
Name	String	The name for this configuration. Connectors reference the configuration with this name.		x
Connection	<ul style="list-style-type: none">• Authorization Header Connection Provider• Basic Auth Connection Provider• Bearer Auth Connection Provider	The connection types that can be provided to this configuration.		x
Response Timeout	Number	The timeout for request to the remote service.	60	
Response Timeout Unit	Enumeration, one of: <ul style="list-style-type: none">• NANOSECONDS• MICROSECONDS• MILLISECONDS• SECONDS• MINUTES• HOURS• DAYS	A time unit which qualifies the Response Timeout}	SECONDS	
Streaming Type	String	Defines if the request should be sent using streaming. Setting the value to AUTO will automatically define the best strategy based on the request content.	AUTO	
Name	String	The identifier of this element used to reference it in other components		x

Name	Type	Description	Default Value	Required
Expiration Policy	Expiration Policy	Configures the minimum amount of time that a dynamic configuration instance can remain idle before the runtime considers it eligible for expiration. This does not mean that the platform will expire the instance at the exact moment that it becomes eligible. The runtime will actually purge the instances when it sees it fit.		

Connection Types

Authorization Header Connection Provider

This is the last layer of the connection provider generation gap pattern. It is what finally gets exposed as the connection provider, including all customizations made in the refinement layer.

Parameters

Name	Type	Description	Default Value	Required
Default headers	Object			
Default query parameters	Object			
Connection Timeout	Number	The timeout for establishing connections to the remote service	30	
Connection Timeout Unit	Enumeration, one of: <ul style="list-style-type: none"> NANOSECONDS MICROSECONDS MILLISECONDS SECONDS MINUTES HOURS DAYS 	A time unit which qualifies the Connection Timeout	SECONDS	
Use Persistent Connections	Boolean	If false, each connection will be closed after the first request is completed.	true	

Name	Type	Description	Default Value	Required
Max Connections	Number	The maximum number of outbound connections that will be kept open at the same time	-1	
Connection Idle Timeout	Number	A timeout for how long a connection can remain idle before it is closed	30	
Connection Idle Timeout Unit	Enumeration, one of: <ul style="list-style-type: none"> NANOSECONDS MICROSECONDS MILLISECONDS SECONDS MINUTES HOURS DAYS 	A time unit which qualifies the connection Idle Timeout	SECONDS	
Stream Response	Boolean	Whether or not received responses should be streamed	false	
Response Buffer Size	Number	The space in bytes for the buffer where the HTTP response will be stored.	-1	
Base Uri	String	Parameter base URI, each instance/tenant gets its own	https://	
Proxy Config	Proxy	Reusable configuration element for outbound connections through a proxy. A proxy element must define a host name and a port attributes, and optionally can define a username and a password.		
Authorization	String	Authorization		
Protocol	Enumeration, one of: <ul style="list-style-type: none"> HTTP HTTPS 	Protocol to use for communication. Valid values are HTTP and HTTPS	HTTP	
TLS Configuration	Tls			

Name	Type	Description	Default Value	Required
Reconnection	Reconnection	When the application is deployed, a connectivity test is performed on all connectors. If set to true, deployment will fail if the test doesn't pass after exhausting the associated reconnection strategy		

Basic Auth Connection Provider

This is the last layer of the connection provider generation gap pattern. It is what finally gets exposed as the connection provider, including all customizations made in the refinement layer.

Parameters

Name	Type	Description	Default Value	Required
Default headers	Object			
Default query parameters	Object			
Connection Timeout	Number	The timeout for establishing connections to the remote service	30	
Connection Timeout Unit	Enumeration, one of: <ul style="list-style-type: none"> NANOSECONDS MICROSECONDS MILLISECONDS SECONDS MINUTES HOURS DAYS 	A time unit which qualifies the Connection Timeout	SECONDS	
Use Persistent Connections	Boolean	If false, each connection will be closed after the first request is completed.	true	
Max Connections	Number	The maximum number of outbound connections that will be kept open at the same time	-1	

Name	Type	Description	Default Value	Required
Connection Idle Timeout	Number	A timeout for how long a connection can remain idle before it is closed	30	
Connection Idle Timeout Unit	Enumeration, one of: <ul style="list-style-type: none"> NANOSECONDS MICROSECONDS MILLISECONDS SECONDS MINUTES HOURS DAYS 	A time unit which qualifies the connection Idle Timeout	SECONDS	
Stream Response	Boolean	Whether or not received responses should be streamed	false	
Response Buffer Size	Number	The space in bytes for the buffer where the HTTP response will be stored.	-1	
Base Uri	String	Parameter base URI, each instance/tenant gets its own	https://	
Username	String	The username used to authenticate the requests.		x
Password	String	The password used to authenticate the requests.		
Proxy Config	Proxy	Reusable configuration element for outbound connections through a proxy. A proxy element must define a host name and a port attributes, and optionally can define a username and a password.		
Protocol	Enumeration, one of: <ul style="list-style-type: none"> HTTP HTTPS 	Protocol to use for communication. Valid values are HTTP and HTTPS	HTTP	
TLS Configuration	Tls			

Name	Type	Description	Default Value	Required
Reconnection	Reconnection	When the application is deployed, a connectivity test is performed on all connectors. If set to true, deployment will fail if the test doesn't pass after exhausting the associated reconnection strategy		

Bearer Auth Connection Provider

This is the last layer of the connection provider generation gap pattern. It is what finally gets exposed as the connection provider, including all customizations made in the refinement layer.

Parameters

Name	Type	Description	Default Value	Required
Default headers	Object			
Default query parameters	Object			
Connection Timeout	Number	The timeout for establishing connections to the remote service	30	
Connection Timeout Unit	Enumeration, one of: <ul style="list-style-type: none"> NANOSECONDS MICROSECONDS MILLISECONDS SECONDS MINUTES HOURS DAYS 	A time unit which qualifies the Connection Timeout	SECONDS	
Use Persistent Connections	Boolean	If false, each connection will be closed after the first request is completed.	true	
Max Connections	Number	The maximum number of outbound connections that will be kept open at the same time	-1	

Name	Type	Description	Default Value	Required
Connection Idle Timeout	Number	A timeout for how long a connection can remain idle before it is closed	30	
Connection Idle Timeout Unit	Enumeration, one of: <ul style="list-style-type: none"> NANOSECONDS MICROSECONDS MILLISECONDS SECONDS MINUTES HOURS DAYS 	A time unit which qualifies the connection Idle Timeout	SECONDS	
Stream Response	Boolean	Whether or not received responses should be streamed	false	
Response Buffer Size	Number	The space in bytes for the buffer where the HTTP response will be stored.	-1	
Base Uri	String	Parameter base URI, each instance/tenant gets its own	https://	
Token	String	The token used to authenticate the requests.		x
Proxy Config	Proxy	Reusable configuration element for outbound connections through a proxy. A proxy element must define a host name and a port attributes, and optionally can define a username and a password.		
Protocol	Enumeration, one of: <ul style="list-style-type: none"> HTTP HTTPS 	Protocol to use for communication. Valid values are HTTP and HTTPS	HTTP	
TLS Configuration	Tls			
Reconnection	Reconnection	When the application is deployed, a connectivity test is performed on all connectors. If set to true, deployment will fail if the test doesn't pass after exhausting the associated reconnection strategy		

Associated Operations

- Get access token
- Post CSV

Operations

Get access token

<apromore:get-access-token>

Get a keycloak access token. This operation makes an HTTP POST request to the /auth/realms/Apromore/protocol/openid-connect/token endpoint

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		x
Body	Any	the content to use	# [payload]	
Config Ref	ConfigurationProvider	The name of the configuration to be used to execute this component		
Streaming Strategy	<ul style="list-style-type: none">• Repeatable In Memory Stream• Repeatable File Store Stream• non-repeatable-stream	Configure if repeatable streams should be used and their behaviour		
Custom Query Parameters	Object		#[null]	
Custom Headers	Object		#[null]	
Response Timeout	Number	The timeout for request to the remote service.		

Name	Type	Description	Default Value	Required
Response Timeout Unit	Enumeration, one of: <ul style="list-style-type: none"> NANOSECONDS MICROSECONDS MILLISECONDS SECONDS MINUTES HOURS DAYS 	A time unit which qualifies the Response Timeout}		
Streaming Type	String	Defines if the request should be sent using streaming. Setting the value to AUTO will automatically define the best strategy based on the request content.		
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	# [payload]	
Reconnection Strategy	<ul style="list-style-type: none"> Reconnect Reconnect Forever 	A retry strategy in case of connectivity errors		

Output

Type	Any
Attributes Type	Http Response Attributes

For Configurations

- Config

Throws

- APROMORE:BAD_REQUEST
- APROMORE:CLIENT_ERROR
- APROMORE:CONNECTIVITY
- APROMORE:INTERNAL_SERVER_ERROR
- APROMORE:NOT_ACCEPTABLE
- APROMORE:NOT_FOUND
- APROMORE:RETRY_EXHAUSTED

- APROMORE:SERVER_ERROR
- APROMORE:SERVICE_UNAVAILABLE
- APROMORE:TIMEOUT
- APROMORE:TOO_MANY_REQUESTS
- APROMORE:UNAUTHORIZED
- APROMORE:UNSUPPORTED_MEDIA_TYPE

Post CSV

<apromore:post-csv>

Upload a CSV file to Apromore. This operation makes an HTTP POST request to the /api/v2/artifact/{destination} endpoint

Parameters

Name	Type	Description	Default Value	Required
Configuration	String	The name of the configuration to use.		x
Destination and Log Name	String	The log name and location in the Apromore workspace (e.g. path_from_home_folder/log_name).		x
Content Type	Enumeration, one of: <ul style="list-style-type: none"> • CSV 	The mime type of the log being uploaded.		x
Log Metadata	String	Specification of the column types. All columns in the uploaded log must be present.		x
Log Owner	String	Change the log owner, which is the uploader by default (e.g. user1).		
Log Editors	String	Users with write access to the uploaded log (e.g. user1,user2).		
Log Viewers	String	Users with read access to the uploaded log (e.g. user1,user2).		
Column Anonymization	String	Columns for anonymisation (e.g. col1, col2). Anonymised columns will have their values encrypted.		
Body	String	the content to use	# [payload]	

Name	Type	Description	Default Value	Required
Config Ref	ConfigurationProvider	The name of the configuration to be used to execute this component		
Streaming Strategy	<ul style="list-style-type: none"> • Repeatable In Memory Stream • Repeatable File Store Stream • non-repeatable-stream 	Configure if repeatable streams should be used and their behaviour		
Custom Query Parameters	Object		#[null]	
Custom Headers	Object		#[null]	
Response Timeout	Number	The timeout for request to the remote service.		
Response Timeout Unit	Enumeration, one of: <ul style="list-style-type: none"> • NANOSECONDS • MICROSECONDS • MILLISECONDS • SECONDS • MINUTES • HOURS • DAYS 	A time unit which qualifies the Response Timeout}		
Streaming Type	String	Defines if the request should be sent using streaming. Setting the value to AUTO will automatically define the best strategy based on the request content.		
Target Variable	String	The name of a variable on which the operation's output will be placed		
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	# [payload]	
Reconnection Strategy	<ul style="list-style-type: none"> • Reconnect • Reconnect Forever 	A retry strategy in case of connectivity errors		

Output

Type	Any
Attributes Type	Http Response Attributes

For Configurations

- Config

Throws

- APROMORE:BAD_REQUEST
- APROMORE:CLIENT_ERROR
- APROMORE:CONNECTIVITY
- APROMORE:INTERNAL_SERVER_ERROR
- APROMORE:NOT_ACCEPTABLE
- APROMORE:NOT_FOUND
- APROMORE:RETRY_EXHAUSTED
- APROMORE:SERVER_ERROR
- APROMORE:SERVICE_UNAVAILABLE
- APROMORE:TIMEOUT
- APROMORE:TOO_MANY_REQUESTS
- APROMORE:UNAUTHORIZED
- APROMORE:UNSUPPORTED_MEDIA_TYPE

Types

Proxy

Field	Type	Description	Default Value	Required
Host	String	Host where the proxy requests will be sent.		x
Port	Number	Port where the proxy requests will be sent.		x
Username	String	The username to authenticate against the proxy.		x
Password	String	The password to authenticate against the proxy.		x

Field	Type	Description	Default Value	Required
Non Proxy Hosts	String	A list of comma separated hosts against which the proxy should not be used		x

Tls

Field	Type	Description	Default Value	Required
Enabled Protocols	String	A comma separated list of protocols enabled for this context.		
Enabled Cipher Suites	String	A comma separated list of cipher suites enabled for this context.		
Trust Store	Trust Store			
Key Store	Key Store			
Revocation Check	<ul style="list-style-type: none"> Standard Revocation Check Custom Ocsp Responder Crl File 			

Trust Store

Field	Type	Description	Default Value	Required
Path	String	The location (which will be resolved relative to the current classpath and file system, if possible) of the trust store.		
Password	String	The password used to protect the trust store.		
Type	String	The type of store used.		
Algorithm	String	The algorithm used by the trust store.		

Field	Type	Description	Default Value	Required
Insecure	Boolean	If true, no certificate validations will be performed, rendering connections vulnerable to attacks. Use at your own risk.		

Key Store

Field	Type	Description	Default Value	Required
Path	String	The location (which will be resolved relative to the current classpath and file system, if possible) of the key store.		
Type	String	The type of store used.		
Alias	String	When the key store contains many private keys, this attribute indicates the alias of the key that should be used. If not defined, the first key in the file will be used by default.		
Key Password	String	The password used to protect the private key.		
Password	String	The password used to protect the key store.		
Algorithm	String	The algorithm used by the key store.		

Standard Revocation Check

Field	Type	Description	Default Value	Required
Only End Entities	Boolean	Only verify the last element of the certificate chain.		
Prefer Crls	Boolean	Try CRL instead of OCSP first.		

Field	Type	Description	Default Value	Required
No Fallback	Boolean	Do not use the secondary checking method (the one not selected before).		
Soft Fail	Boolean	Avoid verification failure when the revocation server can not be reached or is busy.		

Custom Ocsp Responder

Field	Type	Description	Default Value	Required
Url	String	The URL of the OCSP responder.		
Cert Alias	String	Alias of the signing certificate for the OCSP response (must be in the trust store), if present.		

Crl File

Field	Type	Description	Default Value	Required
Path	String	The path to the CRL file.		

Reconnection

Field	Type	Description	Default Value	Required
Fails Deployment	Boolean	When the application is deployed, a connectivity test is performed on all connectors. If set to true, deployment will fail if the test doesn't pass after exhausting the associated reconnection strategy		
Reconnection Strategy	<ul style="list-style-type: none"> Reconnect Reconnect Forever 	The reconnection strategy to use		

Reconnect

Field	Type	Description	Default Value	Required
Frequency	Number	How often (in ms) to reconnect		
Blocking	Boolean	If false, the reconnection strategy will run in a separate, non-blocking thread		
Count	Number	How many reconnection attempts to make		

Reconnect Forever

Field	Type	Description	Default Value	Required
Frequency	Number	How often (in ms) to reconnect		
Blocking	Boolean	If false, the reconnection strategy will run in a separate, non-blocking thread		

Expiration Policy

Field	Type	Description	Default Value	Required
Max Idle Time	Number	A scalar time value for the maximum amount of time a dynamic configuration instance should be allowed to be idle before it's considered eligible for expiration		

Field	Type	Description	Default Value	Required
Time Unit	Enumeration, one of: <ul style="list-style-type: none"> NANOSECONDS MICROSECONDS MILLISECONDS SECONDS MINUTES HOURS DAYS 	A time unit that qualifies the maxIdleTime attribute		

Http Response Attributes

Field	Type	Description	Default Value	Required
Status Code	Number			x
Headers	Object			x
Reason Phrase	String			x

Repeatable In Memory Stream

Field	Type	Description	Default Value	Required
Initial Buffer Size	Number	This is the amount of memory that will be allocated in order to consume the stream and provide random access to it. If the stream contains more data than can be fit into this buffer, then it will be expanded by according to the bufferSizeIncrement attribute, with an upper limit of maxInMemorySize.		
Buffer Size Increment	Number	This is by how much will be buffer size by expanded if it exceeds its initial size. Setting a value of zero or lower will mean that the buffer should not expand, meaning that a STREAM_MAXIMUM_SIZE_EXCEEDED error will be raised when the buffer gets full.		

Field	Type	Description	Default Value	Required
Max Buffer Size	Number	This is the maximum amount of memory that will be used. If more than that is used then a <code>STREAM_MAXIMUM_SIZE_EXCEEDED</code> error will be raised. A value lower or equal to zero means no limit.		
Buffer Unit	Enumeration, one of: <ul style="list-style-type: none"> • BYTE • KB • MB • GB 	The unit in which all these attributes are expressed		

Repeatable File Store Stream

Field	Type	Description	Default Value	Required
In Memory Size	Number	Defines the maximum memory that the stream should use to keep data in memory. If more than that is consumed then it will start to buffer the content on disk.		
Buffer Unit	Enumeration, one of: <ul style="list-style-type: none"> • BYTE • KB • MB • GB 	The unit in which <code>maxInMemorySize</code> is expressed		

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