

AWS LAMBDA CONNECTOR

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AWS LAMBDA CONNECTOR

CONNECTOR DETAILS

AWS Lambda is an event-driven, serverless computing platform provided by Amazon as a part of the Amazon Web Services. It lets you run your code in response to events and automatically manages the underlying compute resources for you.

The AWS Lambda Connector provides you the ability to interact with your Lambda functions provisioned on AWS. It allows you to manage or use the function's response payload in an effective manner.

This article will explain how to invoke AWS Lambda functions in a SaaS environment using the Amazon Lambda connector via the Apache Camel framework.

PREREQUISITE

To use an **AWS Lambda Connector**, you need to have an [AWS Lambda Function](#), IAM key, and secret pair with permissions for execute function. See the [AWS Lambda developer guide](#) to learn more.

The component requires the following credentials to authenticate with the AWS services:

AWS ACCESS KEY - this is your Access Key ID when you created the AWS account.

AWS ACCESS SECRET - this is your Secret access key given to you during the key creation.

SETTING UP CONNECTOR IN THE WORKFLOW

1. Load the connector template Json available in Git repo (aws-lambda-connector\element-templates\ aws-lambda-operations-via-camel.json) into Camunda 8 (SAAS/Self-Managed)
2. To use an **AWS Lambda Connector** in your process, either change the type of existing task by clicking on it and using the wrench-shaped **Change type** context menu icon or create a new Connector task by using the **Append Connector** context menu. Follow our [guide on using Connectors](#) to learn more.

Please refer to the attached screenshot for further reference on [template](#) configuration.

ACTIONS

LIST FUNCTION

This activity lists all the Lambda functions which are available for the supplied AWS credentials.

CONNECTOR REQUEST

1. Set the relevant IAM key and secret pair in the **Authentication** section.
2. Set the relevant AWS region in the **Authentication** section.
3. In the **Select Operation** section, set the option to **List Function**

Please refer to the attached [screenshot](#) for further reference on configuring authentication details.

CONNECTOR RESPONSE

In **Output Mapping** section,

4. Use **Result Variable** to store the response in a process variable.
5. Use **Result Expression** to map fields from the response into process variables.

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Please refer to the attached [screenshot](#) for further reference on configuring List function.

INVOKE FUNCTION

This action will invoke a AWS Lambda function. It has following configuration parameters:

CONNECTOR REQUEST

1. Set the relevant IAM key and secret pair in the **Authentication** section.
2. Set the relevant AWS region in the **Authentication** section.

Please refer to the attached [screenshot](#) for further information on configuring authentication details.

3. In the **Select Operation** section, set the option to synchronous Invoke Function; an asynchronous invocation option is currently not available.
4. In the **Operation Details** section, fill out the field **Function name**. This field can be a [function URL](#), [function ARN](#), function name, or alias.
5. The **Payload** field in the **Operation Details** section is optional. This field requires FEEL input. The payload must be in JSON format as this is the data that will be processed by your Lambda function.

CONNECTOR RESPONSE

In **Output Mapping** section,

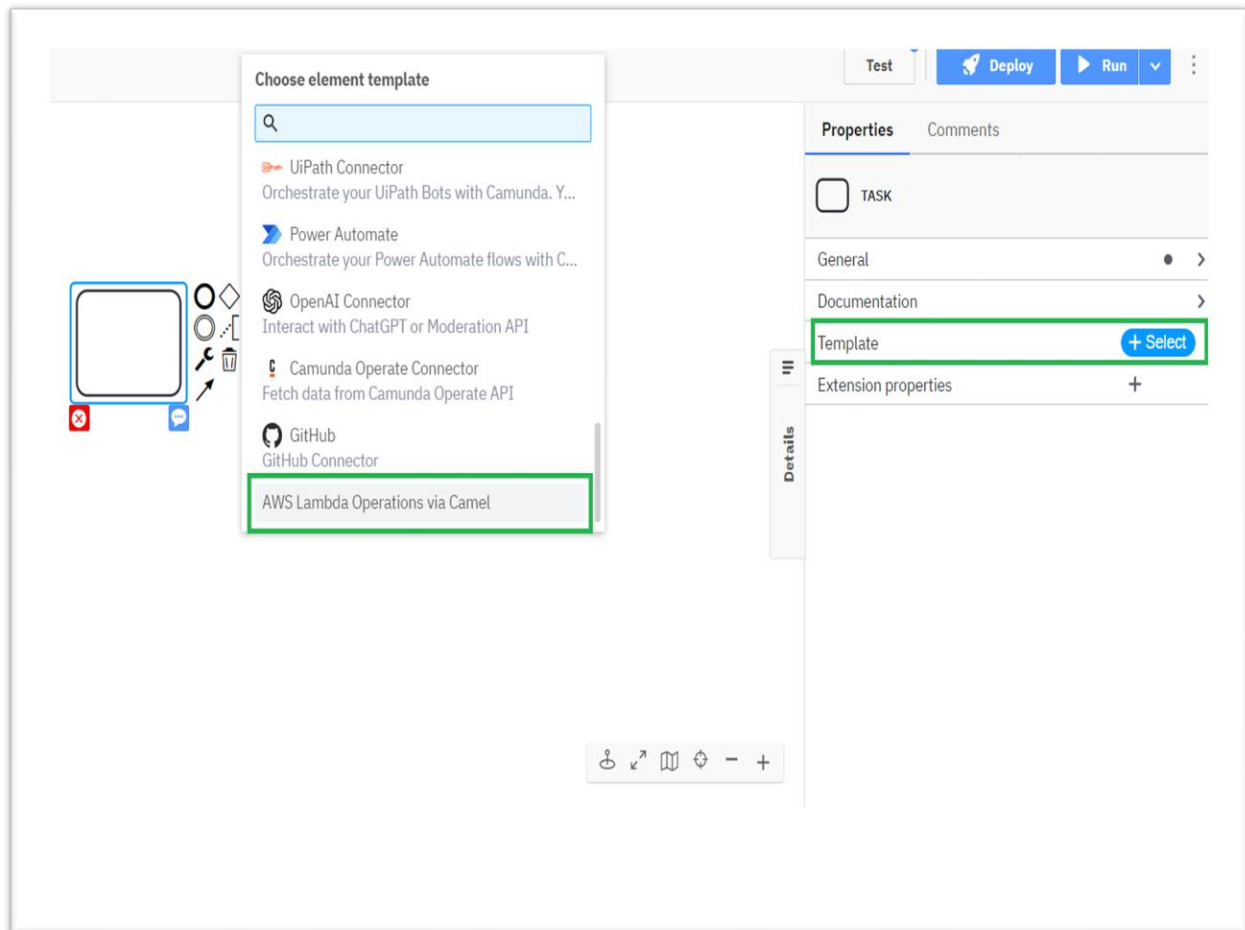
6. Use **Result Variable** to store the response in a process variable.
7. Use **Result Expression** to map fields from the response into process variables.

Please refer to the attached screenshots for further reference on configuring Invoke function [with](#) and [without](#) arguments.

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SCREENSHOTS

1. CHOOSE A TEMPLATE FOR SERVICE TASK



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2. ENTER AWS IAM USER, SECRET AND REGION DETAILS IN BELOW AUTHENTICATION SECTION

The screenshot displays the configuration interface for the AWS Lambda Connector. On the left, a canvas shows a connector icon labeled "AWS Lambda Connector". On the right, the "Properties" panel is open, showing configuration options for "AWS LAMBDA OPERATIONS VIA CAMEL AWS Lambda Connector". The "Authentication" section is expanded, showing fields for "Access Key" (AWS Access Key), "Secret Key" (AWS Secret Key), and "Region" (region). The "Output Mapping" section shows "Result Variable" (payload) and "Result Expression" (=). The "Error Handling" section is also visible.

Properties | Comments

General | Applied |

Authentication

Access Key

AWS Access Key

Provide an access key of a user with permissions to invoke specified AWS Lambda Function

Secret Key

AWS Secret Key

Provide a secret key of a user with permissions to invoke specified AWS Lambda Function

Region

region

Specify the AWS region

Select Operation

Output Mapping

Result Variable

payload

Enter name of variable to store the response in

Result Expression

=

Expression to map the response into process variables

Error Handling

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3. AWS LAMBDA CONNECTOR FOR LIST FUNCTION

The screenshot displays the configuration interface for the AWS Lambda Connector in Camel Studio. On the left, a palette of connectors is shown, with the 'AWS Lambda Connector' icon highlighted by a blue box. The main workspace is divided into two panels: 'Properties' and 'Comments'. The 'Properties' panel is active and shows the following configuration:

- General:** AWS LAMBDA OPERATIONS VIA CAMEL, AWS Lambda Connector
- Template:** Applied (indicated by a blue button)
- Authentication:** (empty)
- Select Operation:** List function (selected from a dropdown menu)
- Output Mapping:**
 - Result Variable:** payload
 - Result Expression:** = (with a link icon)
- Error Handling:** (empty)

At the bottom of the interface, there is a toolbar with icons for undo, redo, save, and zoom in/out.

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4. AWS LAMBDA CONNECTOR FOR INVOKE FUNCTION WITHOUT ARGUMENTS

The screenshot displays the configuration interface for the AWS Lambda Connector in Camunda. On the left, a palette of connectors is shown, with the 'AWS Lambda Connector' icon highlighted. The main workspace shows a canvas with various connector icons. The right-hand panel is titled 'Properties' and 'Comments', with the 'Properties' tab active. The connector is identified as 'AWS LAMBDA OPERATIONS VIA CAMEL' and 'AWS Lambda Connector'. The 'General' tab is selected, showing the 'Template' as 'Applied'. The 'Authentication' tab is also visible. The 'Select Operation' dropdown is set to 'Invoke function (sync)'. The 'Operation Details' section shows the 'Function name' as 'CamundaConnectorTestLambda' and the 'Payload' as '{}'. The 'Output Mapping' section shows the 'Result Variable' as 'payload' and the 'Result Expression' as '='. The 'Error Handling' section is also visible. At the bottom, there is a toolbar with icons for zooming and other actions.

Properties Comments

General

Template Applied

Authentication

Select Operation

Invoke function (sync)

Operation Details

Function name ☺

CamundaConnectorTestLambda

Enter a name, ARN or alias of your function

Payload 🔄

= {}

Provide payload for your function as JSON

Output Mapping

Result Variable

payload

Enter name of variable to store the response in

Result Expression 🔄

=

Expression to map the response into process variables

Error Handling

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5. AWS LAMBDA CONNECTOR FOR INVOKE FUNCTION WITH ARGUMENTS

The screenshot displays the configuration interface for the AWS Lambda Connector. On the left, a palette of connectors includes the 'AWS Lambda Connector', which is highlighted with a blue border. The main workspace shows a partial view of a process diagram. On the right, the 'Properties' panel is open, showing the following configuration:

- Properties** (selected tab) | Comments
- General**: AWS LAMBDA OPERATIONS VIA CAMEL, AWS Lambda Connector
- Template**: Applied (dropdown)
- Authentication**: (dropdown)
- Select Operation**: Invoke function (sync) (dropdown)
- Operation Details**:
 - Function name**: CamundaConnectorTestLambda (text input)
 - Payload**: {"a":1,"b":2,"op":"+"} (JSON input)
- Output Mapping**:
 - Result Variable**: payload (text input)
 - Result Expression**: (empty text input)
- Error Handling**: (empty section)

At the bottom left, there is a toolbar with icons for zooming and navigating the diagram.