AWS-CW

CW Component

*Available as of **Camel 2.11**

The CW component allows messages to be sent to an Amazon CloudWatch metrics. The implementation of the Amazon API is provided by the AWS SDK.

Prerequisites

You must have a valid Amazon Web Services developer account, and be signed up to use Amazon CloudWatch. More information are available at Amazon CloudWatch.

URI Format

```
aws-cw://namespace[?options]
```

The metrics will be created if they don't already exists. Query options can be appended to the URI using the following format: **`?options=value&option2=value&...`**

URI Options

Name	Default Value	Context	Description
`amazonCwClient`	`null`	Producer	Reference to a **`com.amazonaws.services.cloudwatch.AmazonCloudWatch`** in the Registry.
`accessKey`	`null`	Producer	Amazon AWS Access Key.
`secretKey`	`null`	Producer	Amazon AWS Secret Key.
`name`	`null`	Producer	The metric name which is used if the message header **`CamelAwsCwMetricName`** is not present.
`value`	`1.0`	Producer	The metric value which is used if the message header **`CamelAwsCwMetricValue`** is not present.
`unit`	`Count`	Producer	The metric unit which is used if the message header **`CamelAwsCwMetricUnit`** is not present.
`namespace`	`null`	Producer	The metric namespace which is used if the message header **`CamelAwsCwMetricNamespace`** is not present.
`timestamp`	`null`	Producer	The metric timestamp which is used if the message header **`CamelAwsCwMetricTimestamp`** is not present.
`amazonCwEndpoint`	`null`	Producer	The region with which the AWS-CW client wants to work with.
`proxyHost`	`null`	Producer	**Camel 2.16**: Specify a proxy host to be used inside the client definition.
`proxyPort`	`null`	Producer	**Camel 2.16**: Specify a proxy port to be used inside the client definition.

Required CW component options

You have to provide the **`amazonCwClient`** in the Registry or your **`accessKey`** and **`secretKey`** to access the Amazon's CloudWatch.

Usage

Message headers evaluated by the CW producer

Header	Type	Description
`CamelAwsCwMetricName`	`String`	The Amazon CW metric name.
`CamelAwsCwMetricValue`	`Double`	The Amazon CW metric value.
`CamelAwsCwMetricUnit`	`String`	The Amazon CW metric unit.
`CamelAwsCwMetricNamespace`	`String`	The Amazon CW metric namespace.
`CamelAwsCwMetricTimestamp`	`Date`	The Amazon CW metric timestamp.
`CamelAwsCwMetricDimensionName`	`String`	**Camel 2.12:** The Amazon CW metric dimension name.
`CamelAwsCwMetricDimensionValue`	`String`	**Camel 2.12:** The Amazon CW metric dimension value.
`CamelAwsCwMetricDimensions`	`Map<String, String>`	**Camel 2.12:** A map of dimension names and dimension values.

Advanced AmazonCloudWatch configuration

If you need more control over the **`AmazonCloudWatch`** instance configuration you can create your own instance and refer to it from the URI:

```
from("direct:start")
  .to("aws-cw://namepsace?amazonCwClient=#client");
```

The **`#client`** refers to a **`AmazonCloudWatch`** in the Registry.

For example if your Camel Application is running behind a firewall:

```
AWSCredentials awsCredentials = new BasicAWSCredentials("myAccessKey", "mySecretKey");
ClientConfiguration clientConfiguration = new ClientConfiguration();
clientConfiguration.setProxyHost("http://myProxyHost");
clientConfiguration.setProxyPort(8080);

AmazonCloudWatch client = new AmazonCloudWatchClient(awsCredentials, clientConfiguration);

registry.bind("client", client);
```

Dependencies

Maven users will need to add the following dependency to their **`pom.xml`**.

pom.xml

```
<dependency>
    <groupId>org.apache.camel</groupId>
    <artifactId>camel-aws</artifactId>
    <version>${camel-version}</version>
</dependency>
```

where **`${camel-version}`** must be replaced by the actual version of Camel (2.10 or higher).

See Also

- Configuring Camel
- Component
- Endpoint
- Getting Started

- AWS Component