


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 <code>com.amazonaws.services.cloudwatch.AmazonCloudWatch</code> 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 <code>CamelAwsCwMetricName</code> is not present.
value	1.0	Producer	The metric value which is used if the message header <code>CamelAwsCwMetricValue</code> is not present.
unit	Count	Producer	The metric unit which is used if the message header <code>CamelAwsCwMetricUnit</code> is not present.
namespace	null	Producer	The metric namespace which is used if the message header <code>CamelAwsCwMetricNamespace</code> is not present.
timestamp	null	Producer	The metric timestamp which is used if the message header <code>CamelAwsCwMetricTimestamp</code> 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
<code>CamelAwsCwMetricName</code>	String	The Amazon CW metric name.
<code>CamelAwsCwMetricValue</code>	Double	The Amazon CW metric value.
<code>CamelAwsCwMetricUnit</code>	String	The Amazon CW metric unit.
<code>CamelAwsCwMetricNamespace</code>	String	The Amazon CW metric namespace.
<code>CamelAwsCwMetricTimestamp</code>	Date	The Amazon CW metric timestamp.
<code>CamelAwsCwMetricDimensionName</code>	String	Camel 2.12: The Amazon CW metric dimension name.
<code>CamelAwsCwMetricDimensionValue</code>	String	Camel 2.12: The Amazon CW metric dimension value.
<code>CamelAwsCwMetricDimensions</code>	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://namespace?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](#)