


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](#)