

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
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.
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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](#)