

Consul Component

[Consul](#) is a distributed, highly available, datacenter-aware, service discovery and configuration system.

Maven users will need to add the following dependency to their `pom.xml` for this component.

```
<dependency>
  <groupId>org.apache.camel</groupId>
  <artifactId>camel-consul</artifactId>
  <!-- use the same version as your Camel core version -->
  <version>x.y.z</version>
</dependency>
```

URI format

```
consul:apiEndpoint[?options]
```

Where **apiEndpoint** represents the consul's [HTTP API](#) the consul-component should operate on:

Supported HTTP API are:

- [kv](#)
- [event](#)
- [agent](#)

Options

Name	Group	Default	Java Type	Description
url	common		String	Defines the URIs the component should connect to.
key	common		String	The default key. Can be overridden by CamelConsulKey
action	producer		String	The default action. Can be overridden by CamelConsulAction
pingInstance	common	true	boolean	Configure if the AgentClient should attempt a ping before returning the Consul instance
valueAsString	common	false	boolean	Default to transform values retrieved from Consul i.e. on KV endpoint to string.
connectTimeoutMillis	common		Long	Connect timeout for OkHttpClient
readTimeoutMillis	common		Long	Read timeout for OkHttpClient
writeTimeoutMillis	common		Long	Write timeout for OkHttpClient
sslContextParameters	security		SSLContextParameters	SSL configuration using an org.apache.camel.util.jsse.SSLContextParameters instance
userName	security		String	Sets the username to be used for basic authentication
password	security		String	Sets the password to be used for basic authentication
aclToken	security		String	Sets the ACL token to be used with Consul
blockSeconds	consumer, watch	10	Integer	The second to wait for a watch event default 10 seconds
firstIndex	consumer, watch	0	Long	The first index to watch for
recursive	consumer, watch	false	boolean	Recursively watch

Headers

Name	Java Type	Description
CamelConsulAction	String	The action to perform
CamelConsulKey	String	The Key on which the action should be applied
CamelConsulEventId	String	The event id

CamelConsulEventName	String	The event name
CamelConsulEventLTime	Long	The event ltime
CamelConsulNodeFilter	String	The node filter
CamelConsulTagFilter	String	The tag filter
CamelConsulSessionFilter	String	The session filter
CamelConsulVersion	Integer	The data version
CamelConsulFlags	Long	Flags associated with a value
CamelConsulCreateIndex	Long	The internal index value that represents when the entry was created
CamelConsulLockIndex	Long	The number of times this key has successfully been acquired in a lock
CamelConsulModifyIndex	Long	The last index that modified this key
CamelConsulOptions	Object	Options associated to the request
CamelConsulResult	Boolean	true if the response has a result
CamelConsulSession	String	The session id
CamelConsulValueAsString	Boolean	To transform values retrieved from Consul i.e. on KV endpoint to string.

KV API example:

```

CamelContext context = new DefaultCamelContext();
context.addRoutes(new RouteBuilder() {
    public void configure() {
        from("direct:put")
            .to("consul:kv-put")
            .to("log:camel-consul?level=INFO");
    }
});

FluentProducerTemplate.on(context)
    .withHeader(ConsulConstants.CONSUL_ACTION, ConsulKeyValueActions.PUT)
    .withHeader(ConsulConstants.CONSUL_KEY, "mykey")
    .withBody(val)
    .to("direct:kv-put")
    .send();

```

Watch API example:

```

CamelContext context = new DefaultCamelContext();
context.addRoutes(new RouteBuilder() {
    public void configure() {
        from("consul:kv?key=myKey&valueAsString=true")
            .to("log:camel-consul?level=INFO&showAll=true")
            .to("mock:kv-watch");
    }
});

```

