Quarkus - Configuring Logging

This guide explains logging and how to configure it.

Internally, Quarkus uses JBoss Log Manager and the JBoss Logging facade.
You can use the JBoss Logging facade inside your code as it's already provided, or any of the supported Logging API listed in the next chapter as Quarkus will send them to JBoss Log Manager.

All the logging configuration will then be done inside your `application.properties`.

Supported Logging APIs

Applications and components may use any of the following APIs for logging, and the logs will be merged:

- JDK `java.util.logging` (also called JUL)

- JBoss Logging

- SLF4J

- Apache Commons Logging

Internally Quarkus uses JBoss Logging; you can also use it inside your application so that no other dependencies should be added for your logs.

```
import org.jboss.logging.Logger;

import javax.ws.rs.GET;
import javax.ws.rs.Path;
import javax.ws.rs.Produces;
import javax.ws.rs.core.MediaType;

@Path("/hello")
public class ExampleResource {

    private static final Logger LOG =
Logger.getLogger(ExampleResource.class);

    @GET
    @Produces(MediaType.TEXT_PLAIN)
    public String hello() {
        LOG.info("Hello");
        return "hello";
    }
}
```

ℹ   If you use JBoss Logging but one of your libraries uses a different logging API, you may need to configure a Logging Adapter.

What about Apache Log4j ?

Log4j is a logging implementation: it contains a logging backend and a logging facade. Quarkus uses the JBoss Log Manager backend, so you will need to include the `log4j2-jboss-logmanager` library to route Log4j logs to JBoss Log Manager.

```
<dependency>
  <groupId>org.jboss.logmanager</groupId>
  <artifactId>log4j2-jboss-logmanager</artifactId> ①
</dependency>
```

① This is the library needed for Log2J version 2; if you use the legacy Log4J version 1 you need to use `log4j-jboss-logmanager` instead.

You can then use the Log4J API inside your application.

⚠   Do not include any Log4j dependencies. The `log4j2-jboss-logmanager` library includes what's needed to use Log4j as a logging facade.

Logging levels

These are the log levels used by Quarkus:

OFF   Special level to turn off logging.

FATAL   A critical service failure/complete inability to service requests of any kind.

ERROR   A significant disruption in a request or the inability to service a request.

WARN   A non-critical service error or problem that may not require immediate correction.

INFO   Service lifecycle events or important related very-low-frequency information.

DEBUG   Messages that convey extra information regarding lifecycle or non-request-bound events which may be helpful for debugging.

TRACE   Messages that convey extra per-request debugging information that may be very high frequency.

ALL   Special level for all messages including custom levels.

In addition, the following levels may be configured for applications and libraries using `java.util.logging`:

SEVERE   Same as **ERROR**.

WARNING   Same as **WARN**.

CONFIG   Service configuration information.

FINE   Same as **DEBUG**.

FINER   Same as **TRACE**.

FINEST   Event more debugging information than `TRACE`, maybe with even higher frequency.

Runtime configuration

Run time logging is configured in the `application.properties` file, for example, to set the default log level to `INFO` logging and include Hibernate `DEBUG` logs:

```
quarkus.log.level=INFO
quarkus.log.category."org.hibernate".level=DEBUG
```

All possible properties are listed in the logging configuration reference.

> **ℹ** If you are adding these properties via command line make sure `"` is escaped. For example `-Dquarkus.log.category.\"org.hibernate\".level=DEBUG`.

Logging categories

Logging is done on a per-category basis. Each category can be independently configured. A configuration which applies to a category will also apply to all sub-categories of that category, unless there is a more specific matching sub-category configuration. For every category the same settings that are configured on (console / file / syslog) apply. These can also be overridden by attaching a one or more named handlers to a category. See example in Named handlers attached to a category

Property Name	Default	Description
`quarkus.log.category."<category-name>".level`	`INFO` [1]	The level to use to configure the category named `<category-name>`. The quotes are necessary.
`quarkus.log.category."<category-name>".use-parent-handlers`	`true`	Specify whether or not this logger should send its output to its parent logger.

Property Name	Default	Description
`quarkus.log.category."<category-name>".handlers=[<handler>]`	`empty` [2]	The names of the handlers that you want to attach to a specific category.

> The quotes shown in the property name are required as categories normally contain '.' which must be escaped. An example is shown in File TRACE Logging Configuration.

Root logger configuration

The root logger category is handled separately, and is configured via the following properties:

Property Name	Default	Description
`quarkus.log.level`	`INFO`	The default minimum log level for every log category.

If no level configuration exists for a given logger category, the enclosing (parent) category is examined. If no categories are configured which enclose the category in question, then the root logger configuration is used.

Logging Format

By default, Quarkus uses a pattern-based logging formatter that generates human-readable text logs.

You can configure the format for each log handler via a dedicated property. For the console handler, the property is `quarkus.log.console.format`.

The logging format string supports the following symbols:

Symbol	Summary	Description
`%%`	%	Renders a simple % character.
`%c`	Category	Renders the category name.
`%C`	Source class	Renders the source class name. [3]
`%d{xxx}`	Date	Renders a date with the given date format string, which uses the syntax defined by `java.text.SimpleDateFormat`.
`%e`	Exception	Renders the thrown exception, if any.
`%F`	Source file	Renders the source file name.[3]
`%h`	Host name	Renders the system simple host name.

Symbol	Summary	Description
%H	Qualified host name	Renders the system's fully qualified host name, which may be the same as the simple host name, depending on OS configuration.
%i	Process ID	Render the current process PID.
%l	Source location	Renders the source location information, which includes source file name, line number, class name, and method name.[3]
%L	Source line	Renders the source line number.[3]
%m	Full Message	Renders the log message plus exception (if any).
%M	Source method	Renders the source method name.[3]
%n	Newline	Renders the platform-specific line separator string.
%N	Process name	Render the name of the current process.
%p	Level	Render the log level of the message.
%r	Relative time	Render the time in milliseconds since the start of the application log.
%s	Simple message	Renders just the log message, with no exception trace.
%t	Thread name	Render the thread name.
%t{id}	Thread ID	Render the thread ID.
%z{<zone name>}	Time zone	Set the time zone of the output to <zone name>.
%X{<MDC property name>}	Mapped Diagnostics Context Value	Renders the value from Mapped Diagnostics Context
%X	Mapped Diagnostics Context Values	Renders all the values from Mapped Diagnostics Context in format {property.key=property.value}
%x	Nested Diagnostics context values	Renders all the values from Nested Diagnostics Context in format {value1.value2}

Alternative Console Logging Formats

It is possible to change the output format of the console log. This can be useful in environments where the output of the Quarkus application is captured by a service which can, for example, process and store the log information for later analysis.

JSON Logging Format

In order to configure the JSON logging format, the `quarkus-logging-json` extension may be employed. Add this extension to your application POM as the following snippet illustrates.

Modifications to POM file to add the JSON logging extension

```
<dependencies>
  <!-- ... your other dependencies are here ... -->
  <dependency>
    <groupId>io.quarkus</groupId>
    <artifactId>quarkus-logging-json</artifactId>
  </dependency>
</dependencies>
```

The presence of this extension will, by default, replace the output format configuration from the console configuration. This means that the format string and the color settings (if any) will be ignored. The other console configuration items (including those controlling asynchronous logging and the log level) will continue to be applied.

For some, it will make sense to use logging that is humanly readable (unstructured) in dev mode and JSON logging (structured) in production mode. This can be achieved using different profiles, as shown in the following configuration.

Disable JSON logging in application.properties for dev and test mode

```
%dev.quarkus.log.console.json=false
%test.quarkus.log.console.json=false
```

Configuration

The JSON logging extension can be configured in various ways. The following properties are supported:

🔒 Configuration property fixed at build time - All other configuration properties are overridable at runtime

Configuration property	Type	Default
`quarkus.log.console.json` Determine whether to enable the JSON console formatting extension, which disables "normal" console formatting.	boolean	`true`
`quarkus.log.console.json.pretty-print` Enable "pretty printing" of the JSON record. Note that some JSON parsers will fail to read pretty printed output.	boolean	`false`

`quarkus.log.console.json.date-format` The date format to use. The special string "default" indicates that the default format should be used.	string	`default`
`quarkus.log.console.json.record-delimiter` The special end-of-record delimiter to be used. By default, no delimiter is used.	string	
`quarkus.log.console.json.zone-id` The zone ID to use. The special string "default" indicates that the default zone should be used.	string	`default`
`quarkus.log.console.json.exception-output-type` The exception output type to specify.	`detailed`, `formatted`, `detailed-and-formatted`	`detailed`
`quarkus.log.console.json.print-details` Enable printing of more details in the log. Printing the details can be expensive as the values are retrieved from the caller. The details include the source class name, source file name, source method name and source line number.	boolean	`false`

> ⚠️ Enabling pretty printing might cause certain processors and JSON parsers to fail.

> ℹ️ Printing the details can be expensive as the values are retrieved from the caller. The details include the source class name, source file name, source method name and source line number.

Log Handlers

A log handler is a logging component responsible for the emission of log events to a recipient. Quarkus comes with three different log handlers: **console**, **file** and **syslog**.

Console log handler

The console log handler is enabled by default. It outputs all log events to the console of your application (typically to the system's `stdout`).

For details of its configuration options, see the Console Logging configuration reference.

File log handler

The file log handler is disabled by default. It outputs all log events to a file on the application's host. It supports log file rotation.

For details of its configuration options, see the File Logging configuration reference.

Syslog log handler

Syslog is a protocol for sending log messages on Unix-like systems using a protocol defined by RFC 5424.

The syslog handler sends all log events to a syslog server (by default, the syslog server that is local to the application). It is disabled by default.

For details of its configuration options, see the Syslog Logging configuration reference.

Examples

Console DEBUG Logging except for Quarkus logs (INFO), No color, Shortened Time, Shortened Category Prefixes

```
quarkus.log.console.format=%d{HH:mm:ss} %-5p [%c{2.}] (%t) %s%e%n
quarkus.log.console.level=DEBUG
quarkus.log.console.color=false

quarkus.log.category."io.quarkus".level=INFO
```

> **ℹ** If you are adding these properties via command line make sure `"` is escaped. For example `-Dquarkus.log.category.\"io.quarkus\".level=DEBUG`.

File TRACE Logging Configuration

```
quarkus.log.file.enable=true
# Send output to a trace.log file under the /tmp directory
quarkus.log.file.path=/tmp/trace.log
quarkus.log.file.level=TRACE
quarkus.log.file.format=%d{HH:mm:ss} %-5p [%c{2.}] (%t) %s%e%n
# Set 2 categories (io.quarkus.smallrye.jwt,
io.undertow.request.security) to TRACE level
quarkus.log.category."io.quarkus.smallrye.jwt".level=TRACE
quarkus.log.category."io.undertow.request.security".level=TRACE
```

> **ℹ** As we don't change the root logger, console log will only contain `INFO` or higher order logs.

```
# Send output to the console
quarkus.log.file.path=/tmp/trace.log
quarkus.log.console.format=%d{HH:mm:ss} %-5p [%c{2.}] (%t) %s%e%n
# Configure a named handler that logs to console
quarkus.log.handler.console."STRUCTURED_LOGGING".format=%e%n
# Configure a named handler that logs to file
quarkus.log.handler.file."STRUCTURED_LOGGING_FILE".enable=true
quarkus.log.handler.file."STRUCTURED_LOGGING_FILE".format=%e%n
# Configure the category and link the two named handlers to it
quarkus.log.category."io.quarkus.category".level=INFO
quarkus.log.category."io.quarkus.category".handlers=STRUCTURED_LOGG
ING,STRUCTURED_LOGGING_FILE
```

Centralized Log Management

If you want to send your logs to a centralized tool like Graylog, Logstash or Fluentd, you can follow the Centralized log management guide.

How to Configure Logging for @QuarkusTest

If you want to configure logging for your @QuarkusTest, don't forget to set up the maven-surefire-plugin accordingly. In particular, you need to set the appropriate LogManager using the java.util.logging.manager system property.

Example Configuration

```
<build>
  <plugins>
    <plugin>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>${surefire-plugin.version}</version>
      <configuration>
        <systemPropertyVariables>

<java.util.logging.manager>org.jboss.logmanager.LogManager</java.ut
il.logging.manager>  ①
          <quarkus.log.level>DEBUG</quarkus.log.level>   ②
          <maven.home>${maven.home}</maven.home>
        </systemPropertyVariables>
      </configuration>
    </plugin>
  </plugins>
</build>
```

① Make sure the `org.jboss.logmanager.LogManager` is used.

② Enable debug logging for all logging categories.

If you are using Gradle, add this to your `build.gradle`:

```
test {
    systemProperty "java.util.logging.manager",
"org.jboss.logmanager.LogManager"
}
```

See also: Running @QuarkusTest from an IDE

Logging Adapters

Quarkus relies on the JBoss Logging library for all the logging requirements.

If you are using libraries that have dependencies on other logging libraries such as Apache Commons Logging, Log4j or Slf4j, you need to exclude them from the dependencies and use one of the adapters provided by JBoss Logging.

This is especially important when building native executables as you could encounter issues similar to the following when compiling the native executable:

```
Caused by java.lang.ClassNotFoundException:
org.apache.commons.logging.impl.LogFactoryImpl
```

This is due to the logging implementation not being included in the native executable. Using the JBoss Logging adapters will solve this problem.

These adapters are available for most of the common Open Source logging components, such as Apache Commons Logging:

```
<dependency>
    <groupId>org.jboss.logging</groupId>
    <artifactId>commons-logging-jboss-logging</artifactId>
</dependency>
```

JDK Logging:

```
<dependency>
    <groupId>org.jboss.logging</groupId>
    <artifactId>jboss-logging-jdk</artifactId>
</dependency>
```

Log4j:

```
<dependency>
    <groupId>org.jboss.logmanager</groupId>
    <artifactId>log4j-jboss-logmanager</artifactId>
</dependency>
```

Log4j2:

```
<dependency>
    <groupId>org.jboss.logmanager</groupId>
    <artifactId>log4j2-jboss-logmanager</artifactId>
</dependency>
```

And Slf4j:

```
<dependency>
    <groupId>org.jboss.slf4j</groupId>
    <artifactId>slf4j-jboss-logging</artifactId>
</dependency>
```

> 🛈 This is not needed for libraries that are dependencies of a Quarkus extension as the extension will take care of this for you.

Logging configuration reference

🔒 Configuration property fixed at build time - All other configuration properties are overridable at runtime

Configuration property	Type	Default

`quarkus.log.level` The log level of the root category, which is used as the default log level for all categories. JBoss Logging supports Apache style log levels: • {@link org.jboss.logmanager.Level#FATAL} • {@link org.jboss.logmanager.Level#ERROR} • {@link org.jboss.logmanager.Level#WARN} • {@link org.jboss.logmanager.Level#INFO} • {@link org.jboss.logmanager.Level#DEBUG} • {@link org.jboss.logmanager.Level#TRACE} In addition, it also supports the standard JDK log levels.	Level	INFO
Console logging	**Type**	**Default**
`quarkus.log.console.enable` If console logging should be enabled	boolean	true
`quarkus.log.console.format` The log format. Note that this value will be ignored if an extension is present that takes control of console formatting (e.g. an XML or JSON-format extension).	string	%d{yyyy-MM-dd HH:mm:ss,SSS} %-5p [%c{3.}] (%t) %s%e%n
`quarkus.log.console.level` The console log level.	Level	ALL
`quarkus.log.console.color` If the console logging should be in color. If undefined quarkus takes best guess based on operating system and environment. Note that this value will be ignored if an extension is present that takes control of console formatting (e.g. an XML or JSON-format extension).	boolean	

	Type	Default
`quarkus.log.console.darken` Specify how much the colors should be darkened. Note that this value will be ignored if an extension is present that takes control of console formatting (e.g. an XML or JSON-format extension).	int	0
`quarkus.log.console.async` Indicates whether to log asynchronously	boolean	false
`quarkus.log.console.async.queue-length` The queue length to use before flushing writing	int	512
`quarkus.log.console.async.overflow` Determine whether to block the publisher (rather than drop the message) when the queue is full	block, discard	block
File logging	**Type**	**Default**
`quarkus.log.file.enable` If file logging should be enabled	boolean	false
`quarkus.log.file.format` The log format	string	`%d{yyyy-MM-dd HH:mm:ss,SSS} %h %N[%i] %-5p [%c{3.}] (%t) %s%e%n`
`quarkus.log.file.level` The level of logs to be written into the file.	Level	ALL
`quarkus.log.file.path` The name of the file in which logs will be written.	File	`quarkus.log`
`quarkus.log.file.async` Indicates whether to log asynchronously	boolean	false

`quarkus.log.file.async.queue-length` The queue length to use before flushing writing	int	`512`
`quarkus.log.file.async.overflow` Determine whether to block the publisher (rather than drop the message) when the queue is full	`block`, `discard`	`block`
`quarkus.log.file.rotation.max-file-size` The maximum file size of the log file after which a rotation is executed.	Memory Size ❓	
`quarkus.log.file.rotation.max-backup-index` The maximum number of backups to keep.	int	`1`
`quarkus.log.file.rotation.file-suffix` File handler rotation file suffix. Example fileSuffix: .yyyy-MM-dd	string	
`quarkus.log.file.rotation.rotate-on-boot` Indicates whether to rotate log files on server initialization. You need to either set a `max-file-size` or configure a `file-suffix` for it to work.	boolean	`true`
Syslog logging	**Type**	**Default**
`quarkus.log.syslog.enable` If syslog logging should be enabled	boolean	`false`
`quarkus.log.syslog.endpoint` The IP address and port of the syslog server	host:port	`localhost:514`
`quarkus.log.syslog.app-name` The app name used when formatting the message in RFC5424 format	string	
`quarkus.log.syslog.hostname` The name of the host the messages are being sent from	string	

`quarkus.log.syslog.facility` Sets the facility used when calculating the priority of the message as defined by RFC-5424 and RFC-3164	kernel, user-level, mail-system, system-daemons, security, syslogd, line-printer, network-news, uucp, clock-daemon, security2, ftp-daemon, ntp, log-audit, log-alert, clock-daemon2, local-use-0, local-use-1, local-use-2, local-use-3, local-use-4, local-use-5, local-use-6, local-use-7	user-level

`quarkus.log.syslog.syslog-type` Set the `SyslogType` `syslog` `type` this handler should use to format the message sent	`rfc5424`, `rfc3164`	`rfc5424`
`quarkus.log.syslog.protocol` Sets the protocol used to connect to the syslog server	`tcp`, `udp`, `ssl-tcp`	`tcp`
`quarkus.log.syslog.use-counting-framing` Set to `true` if the message being sent should be prefixed with the size of the message	boolean	`false`
`quarkus.log.syslog.truncate` Set to `true` if the message should be truncated	boolean	`true`
`quarkus.log.syslog.block-on-reconnect` Enables or disables blocking when attempting to reconnect a `org.jboss.logmanager.handlers.SyslogHandler.Protocol#TCP TCP` or `org.jboss.logmanager.handlers.SyslogHandler.Protocol#SSL_TCP SSL TCP` protocol	boolean	`false`
`quarkus.log.syslog.format` The log message format	string	`%d{yyyy-MM-dd HH:mm:ss,SSS} %-5p [%c{3.}] (%t) %s%e%n`
`quarkus.log.syslog.level` The log level specifying, which message levels will be logged by syslog logger	`Level`	`ALL`
`quarkus.log.syslog.async` Indicates whether to log asynchronously	boolean	`false`
`quarkus.log.syslog.async.queue-length` The queue length to use before flushing writing	int	`512`

`quarkus.log.syslog.async.overflow` Determine whether to block the publisher (rather than drop the message) when the queue is full	`block`, `discard`	`block`
Logging categories	**Type**	**Default**
`quarkus.log.category."categories".level` The log level level for this category	InheritableLevel	`inherit`
`quarkus.log.category."categories".handlers` The names of the handlers to link to this category.	list of string	
`quarkus.log.category."categories".use-parent-handlers` Specify whether or not this logger should send its output to its parent Logger	boolean	`true`
Console handlers	**Type**	**Default**
`quarkus.log.handler.console."console-handlers".enable` If console logging should be enabled	boolean	`true`
`quarkus.log.handler.console."console-handlers".format` The log format. Note that this value will be ignored if an extension is present that takes control of console formatting (e.g. an XML or JSON-format extension).	string	`%d{yyyy-MM-dd HH:mm:ss,SSS} %-5p [%c{3.}] (%t) %s%e%n`
`quarkus.log.handler.console."console-handlers".level` The console log level.	Level	`ALL`
`quarkus.log.handler.console."console-handlers".color` If the console logging should be in color. If undefined quarkus takes best guess based on operating system and environment. Note that this value will be ignored if an extension is present that takes control of console formatting (e.g. an XML or JSON-format extension).	boolean	

`quarkus.log.handler.console."console-handlers".darken` Specify how much the colors should be darkened. Note that this value will be ignored if an extension is present that takes control of console formatting (e.g. an XML or JSON-format extension).	int	`0`
`quarkus.log.handler.console."console-handlers".async` Indicates whether to log asynchronously	boolean	`false`
`quarkus.log.handler.console."console-handlers".async.queue-length` The queue length to use before flushing writing	int	`512`
`quarkus.log.handler.console."console-handlers".async.overflow` Determine whether to block the publisher (rather than drop the message) when the queue is full	`block,` `discard`	`block`
File handlers	**Type**	**Default**
`quarkus.log.handler.file."file-handlers".enable` If file logging should be enabled	boolean	`false`
`quarkus.log.handler.file."file-handlers".format` The log format	string	`%d{yyyy-MM-dd HH:mm:ss,SSS} %h %N[%i] %-5p [%c{3.}] (%t) %s%e%n`
`quarkus.log.handler.file."file-handlers".level` The level of logs to be written into the file.	Level	`ALL`
`quarkus.log.handler.file."file-handlers".path` The name of the file in which logs will be written.	File	`quarkus.log`

`quarkus.log.handler.file."file-handlers".async` Indicates whether to log asynchronously	boolean	`false`
`quarkus.log.handler.file."file-handlers".async.queue-length` The queue length to use before flushing writing	int	`512`
`quarkus.log.handler.file."file-handlers".async.overflow` Determine whether to block the publisher (rather than drop the message) when the queue is full	`block,` `discard`	`block`
`quarkus.log.handler.file."file-handlers".rotation.max-file-size` The maximum file size of the log file after which a rotation is executed.	Memory Size ❓	
`quarkus.log.handler.file."file-handlers".rotation.max-backup-index` The maximum number of backups to keep.	int	`1`
`quarkus.log.handler.file."file-handlers".rotation.file-suffix` File handler rotation file suffix. Example fileSuffix: .yyyy-MM-dd	string	
`quarkus.log.handler.file."file-handlers".rotation.rotate-on-boot` Indicates whether to rotate log files on server initialization. You need to either set a `max-file-size` or configure a `file-suffix` for it to work.	boolean	`true`
Syslog handlers	**Type**	**Default**
`quarkus.log.handler.syslog."syslog-handlers".enable` If syslog logging should be enabled	boolean	`false`

`quarkus.log.handler.syslog."syslog-handlers".endpoint`
 	
The IP address and port of the syslog server
	host:port	`localh`
		`ost:51`
		`4`

`quarkus.log.handler.syslog."syslog-handlers".app-name` The app name used when formatting the message in RFC5424 format	string	

`quarkus.log.handler.syslog."syslog-handlers".hostname` The name of the host the messages are being sent from	string	

`quarkus.log.handler.syslog."syslog-handlers".facility` Sets the facility used when calculating the priority of the message as defined by RFC-5424 and RFC-3164	`kernel, user-level, mail-system, system-daemons, security, syslogd, line-printer, network-news, uucp, clock-daemon, security2, ftp-daemon, ntp, log-audit, log-alert, clock-daemon2, local-use-0, local-use-1, local-use-2, local-use-3, local-use-4, local-use-5, local-use-6, local-use-7`	`user-level`

`quarkus.log.handler.syslog."syslog-handlers".syslog-type` Set the `SyslogType syslog type` this handler should use to format the message sent	`rfc5424`, `rfc3164`	`rfc5424`
`quarkus.log.handler.syslog."syslog-handlers".protocol` Sets the protocol used to connect to the syslog server	`tcp`, `udp`, `ssl-tcp`	`tcp`
`quarkus.log.handler.syslog."syslog-handlers".use-counting-framing` Set to `true` if the message being sent should be prefixed with the size of the message	boolean	`false`
`quarkus.log.handler.syslog."syslog-handlers".truncate` Set to `true` if the message should be truncated	boolean	`true`
`quarkus.log.handler.syslog."syslog-handlers".block-on-reconnect` Enables or disables blocking when attempting to reconnect a `org.jboss.logmanager.handlers.SyslogHandler.Protocol#TCP TCP` or `org.jboss.logmanager.handlers.SyslogHandler.Protocol#SSL_TCP SSL TCP` protocol	boolean	`false`
`quarkus.log.handler.syslog."syslog-handlers".format` The log message format	string	`%d{yyyy-MM-dd HH:mm:ss,SSS} %-5p [%c{3.}] (%t) %s%e%n`
`quarkus.log.handler.syslog."syslog-handlers".level` The log level specifying, which message levels will be logged by syslog logger	`Level`	`ALL`
`quarkus.log.handler.syslog."syslog-handlers".async` Indicates whether to log asynchronously	boolean	`false`

	Type	Default
`quarkus.log.handler.syslog."syslog-handlers".async.queue-length` The queue length to use before flushing writing	int	`512`
`quarkus.log.handler.syslog."syslog-handlers".async.overflow` Determine whether to block the publisher (rather than drop the message) when the queue is full	`block`, `discard`	`block`
Log cleanup filters - internal use	**Type**	**Default**
`quarkus.log.filter."filters".if-starts-with` The message starts to match	list of string	`inherit`
`quarkus.log.filter."filters".target-level` The new log level for the filtered message, defaults to DEBUG	Level	`DEBUG`

ⓘ *About the MemorySize format*

A size configuration option recognises string in this format (shown as a regular expression): `[0-9]+[KkMmGgTtPpEeZzYy]?`. If no suffix is given, assume bytes.

---

[1] Some extensions may define customized default log levels for certain categories, in order to reduce log noise by default. Setting the log level in configuration will override any extension-defined log levels.

[2] By default the configured category gets the same handlers attached as the one on the root logger.

[3] Format sequences which examine caller information may affect performance