

# Stack trace logging

When an error occurs, an exception stack trace is logged, for example

```
09:55:51,203 WARN olNegotiationHandler - nioEventLoopGroup-3-2 [id:
0x3cee8c80, L:0.0.0.0/0.0.0.0:8445 ! R:/192.168.1.179:31032] TLS handshake
failed:
javax.net.ssl.SSLHandshakeException: error:100000f7:SSL
routines:OPENSSL_internal:WRONG_VERSION_NUMBER
    at
io.netty.handler.ssl.ReferenceCountedOpenSslEngine.sslReadErrorResult(ReferenceC
    at
io.netty.handler.ssl.ReferenceCountedOpenSslEngine.unwrap(ReferenceCountedOpenSs
    at
io.netty.handler.ssl.ReferenceCountedOpenSslEngine.unwrap(ReferenceCountedOpenSs
    at
io.netty.handler.ssl.ReferenceCountedOpenSslEngine.unwrap(ReferenceCountedOpenSs
    at
io.netty.handler.ssl.SslHandler$SslEngineType$1.unwrap(SslHandler.java:224)
    at io.netty.handler.ssl.SslHandler.unwrap(SslHandler.java:1338)
    at
io.netty.handler.ssl.SslHandler.decodeNonJdkCompatible(SslHandler.java:1245)
    at io.netty.handler.ssl.SslHandler.decode(SslHandler.java:1282)
    at
io.netty.handler.codec.ByteToMessageDecoder.decodeRemovalReentryProtection(ByteT
    at
io.netty.handler.codec.ByteToMessageDecoder.callDecode(ByteToMessageDecoder.java
    at
io.netty.handler.codec.ByteToMessageDecoder.channelRead(ByteToMessageDecoder.jav
    at
io.netty.channel.AbstractChannelHandlerContext.invokeChannelRead(AbstractChannel
    at
io.netty.channel.AbstractChannelHandlerContext.invokeChannelRead(AbstractChannel
    at
io.netty.channel.AbstractChannelHandlerContext.fireChannelRead(AbstractChannelHa
    at
io.netty.channel.DefaultChannelPipeline$HeadContext.channelRead(DefaultChannelPi
    at
io.netty.channel.AbstractChannelHandlerContext.invokeChannelRead(AbstractChannel
```

```
io.netty.channel.AbstractChannelHandlerContext.invokeChannelRead(AbstractChannel
    at
io.netty.channel.DefaultChannelPipeline.fireChannelRead(DefaultChannelPipeline.j
    at
io.netty.channel.nio.AbstractNioByteChannel$NioByteUnsafe.read(AbstractNioByteCh
    at
io.netty.channel.nio.NioEventLoop.processSelectedKey(NioEventLoop.java:719)
    at
io.netty.channel.nio.NioEventLoop.processSelectedKeysOptimized(NioEventLoop.java
    at
io.netty.channel.nio.NioEventLoop.processSelectedKeys(NioEventLoop.java:581)
    at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:493)
    at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecut
    at
io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.jav
    at java.lang.Thread.run(Thread.java:748)
```

In this example, client sent a wrong data packet while establishing a secure connection to the HLS playback port.

Stack trace contains a useful information to debug the error, but Java machine may hide it for certain exceptions such as `NullPointerException`. To enable stack trace logging, add the following parameter to `wcs_core.properties` file

```
-XX:-OmitStackTraceInFastThrow
```