

Exception logging

🌐 Language: [Deutsch](#) · [English](#)

📖 Exception logging

Separate stack trace logs – business/internal, hash code mapping and log rotation.

REFERENZ

ADMINISTRATOR

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APPLIES TO NUCLOS 4.2026.X

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Exceptions sent to the client no longer contain a stack trace/cause – these are stored separately on the server. RuntimeExceptions become a neutral `InternalErrorException` with a **hash code** that lets you find the original stack trace in the log. BusinessExceptions go to the client (without stack trace) with all needed extras (InputRequired, FieldValidation).

stacktrace-business.log

Reduced stack traces of BusinessExceptions (infrastructure lines from Nuclos/Spring/Java/Tomcat are omitted):

```
2020-06-24 08:29:40 - null

org.nuclos.api.context.InputRequiredException: null

at extension.nuclet.test.rules.TestInputRequiredExceptionExtension.doInputMemo
(TestInputRequiredExceptionExtension.java:198) ~[nuclos-integration-tests-rules-4.43.0-SNAPSHOT.jar:?]

at extension.nuclet.test.rules.TestInputRequiredExceptionExtension.doInputRequired
(TestInputRequiredExceptionExtension.java:53) ~[nuclos-integration-tests-rules-4.43.0-SNAPSHOT.jar:?]

at extension.nuclet.test.rules.TestInputRequiredExceptionExtension.custom(TestInputRequiredExceptionExtension.
java:34) ~[nuclos-integration-tests-rules-4.43.0-SNAPSHOT.jar:?]
```

stacktrace-internal.log

Full stack trace of all other (runtime) exceptions. Each entry starts with the **hash code** # also shown in the client:

```
#-22567581 2020-06-24 09:17:21
```

```
java.lang.NullPointerException: null
```

```
at org.nuclos.server.eventsupport.ejb3.EventSupportFacadeBean.createBusinessObject(EventSupportFacadeBean.java:1855) ~[nuclos-server-4.43.0-SNAPSHOT.jar:?]
```

```
at org.nuclos.server.eventsupport.ejb3.EventSupportFacadeBean.executeUpdateSupportEvent(EventSupportFacadeBean.java:1555) ~[nuclos-server-4.43.0-SNAPSHOT.jar:?]
```

```
at org.nuclos.server.eventsupport.ejb3.EventSupportFacadeBean.fireSaveEventSupport_aroundBody62(EventSupportFacadeBean.java:2183) ~[nuclos-server-4.43.0-SNAPSHOT.jar:?]
```

```
at org.nuclos.server.eventsupport.ejb3.EventSupportFacadeBean$AjcClosure63.run(EventSupportFacadeBean.java:1) ~[nuclos-server-4.43.0-SNAPSHOT.jar:?]
```

```
at org.springframework.transaction.aspectj.AbstractTransactionAspect.ajc$around$org_springframework_transaction_aspectj_AbstractTransactionAspect$1$2a73e96cproceed(AbstractTransactionAspect.aj:66) ~[spring-aspects-4.3.17.RELEASE.jar:4.3.17.RELEASE]
```

```
...
```

The corresponding entry in `server.log`:

```
2020-06-24 09:17:21,916 WARN [org.nuclos.server.common.NuclosRemoteInvocationExecutor] - InternalError '#-22567581 2020-06-24 09:17:21': java.lang.NullPointerException
```

Log rotation

The files rotate hourly; at most **8** `stacktrace-business` and **512** `stacktrace-internal` files are kept. Configurable in `conf/log4j2.xml`:

```
<RollingFile name="StacktraceBusiness" fileName="${server.home}/logs/stacktrace-business.log"
  filePattern="${server.home}/logs/stacktrace-business-%d{yyyy-MM-dd-hh}.log.gz"
  append="true">
  <PatternLayout pattern="%d{yyyy-MM-dd HH:mm:ss} - %m%n"/>
  <Policies>
    <TimeBasedTriggeringPolicy filePattern="${server.home}/logs/stacktrace-business-%d{yyyy-MM-dd-hh}.log.
gz" />
  </Policies>
  <DefaultRolloverStrategy max="8"/>
</RollingFile>
<RollingFile name="StacktraceInternal" fileName="${server.home}/logs/stacktrace-internal.log"
  filePattern="${server.home}/logs/stacktrace-internal-%d{yyyy-MM-dd-hh}.log.gz"
  append="true">
  <PatternLayout pattern="%m%n"/>
  <Policies>
    <TimeBasedTriggeringPolicy filePattern="${server.home}/logs/stacktrace-internal-%d{yyyy-MM-dd-hh}.log.
gz" />
  </Policies>
  <DefaultRolloverStrategy max="512"/>
</RollingFile>
```



Installer & legacy behaviour

The installer resets `conf/log4j2.xml`. For permanent changes copy the file to `extensions/conf`. To write everything back to `server.log`, set `additivity="true"` on the stack trace loggers.

Related pages

⚙ Logging

Overview.

⚙ SQL logging

SQL.

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