

Dear Talend Community

I'm facing a random behavior with the deployment of services with SAML authentication enabled on Talend Runtime.

Sometimes after a service is deployed, all requests with a valid SAML token are refused returning a HTTP 401 Unauthorized and most of the times this is resolved with a simple **bundle:refresh** command. Hard times require a new deploy.

Although a workaround is already found, I wonder if some of you have already faced this behavior and if is there a solution to avoid this kind of exception. Please find bellow a log sample of this error:

```
-----
2018-05-08 20:19:58,257 | INFO | 1695614865-12924 | LoggingInInterceptor | 32 - org.apache.cxf.cxf-core - 3.1.11 | Inbound Message
-----
ID: 28
Address: http://my-domain/services/auth-services/1.0/password-policy?cultureName=pt-BR
Http-Method: GET
Content-Type:
Headers: {Accept=[*/*], accept-encoding=[gzip, deflate], Authorization=[SAML aVdZb+o6EH6v1P9QcR4RzcIa1FZyVgIEyMrychQSZ4EsECck4ddfA21v27NLefF4ZvzNM
-----
2018-05-08 20:19:58,260 | WARN | 5]-nio2-thread-2 | ServerSessionImpl | 144 - org.apache.sshd.core - 1.4.0 | exceptionCaught(Serve
2018-05-08 20:19:58,268 | WARN | 1695614865-12924 | AbstractSamlInHandler | 189 - org.apache.cxf.cxf-rt-rs-security-xml - 3.1.11 | Ass
    at java.net.URI.create(URI.java:852)
    at org.apache.cxf.rt.security.utils.SecurityUtils.loadResource(SecurityUtils.java:112)
    at org.apache.cxf.rt.security.utils.SecurityUtils.loadResource(SecurityUtils.java:84)
    at org.apache.cxf.rs.security.common.CryptoLoader.getCrypto(CryptoLoader.java:74)
    at org.apache.cxf.rs.security.saml.AbstractSamlInHandler.validateToken(AbstractSamlInHandler.java:140)
    at org.apache.cxf.rs.security.saml.AbstractSamlInHandler.validateToken(AbstractSamlInHandler.java:115)
    at org.apache.cxf.rs.security.saml.AbstractSamlInHandler.validateToken(AbstractSamlInHandler.java:98)
    at org.apache.cxf.rs.security.saml.AbstractSamlBase64InHandler.handleToken(AbstractSamlBase64InHandler.java:53)
    at org.apache.cxf.rs.security.saml.SamlHeaderInHandler.filter(SamlHeaderInHandler.java:53)
    at org.apache.cxf.jaxrs.utils.JAXRSUtils.runContainerRequestFilters(JAXRSUtils.java:1650)
    at org.apache.cxf.jaxrs.interceptor.JAXRSInInterceptor.processRequest(JAXRSInInterceptor.java:106)
    at org.apache.cxf.jaxrs.interceptor.JAXRSInInterceptor.handleMessage(JAXRSInInterceptor.java:77)
    at org.apache.cxf.phase.PhaseInterceptorChain.doIntercept(PhaseInterceptorChain.java:308)
    at org.apache.cxf.transport.ChainInitiationObserver.onMessage(ChainInitiationObserver.java:121)
    at org.apache.cxf.transport.http.AbstractHTTPDestination.invoke(AbstractHTTPDestination.java:262)
    at org.apache.cxf.transport.servlet.ServletController.invokeDestination(ServletController.java:234)
    at org.apache.cxf.transport.servlet.ServletController.invoke(ServletController.java:208)
    at org.apache.cxf.transport.servlet.ServletController.invoke(ServletController.java:160)
    at org.apache.cxf.transport.servlet.CXFNonSpringServlet.invoke(CXFNonSpringServlet.java:180)
    at org.apache.cxf.transport.servlet.AbstractHTTPServlet.handleRequest(AbstractHTTPServlet.java:299)
    at org.apache.cxf.transport.servlet.AbstractHTTPServlet.doGet(AbstractHTTPServlet.java:223)
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:687)
    at org.apache.cxf.transport.servlet.AbstractHTTPServlet.service(AbstractHTTPServlet.java:274)
    at org.eclipse.jetty.servlet.ServletHolder.handle(ServletHolder.java:845)
```

```
at org.eclipse.jetty.servlet.ServletHandler.doHandle(ServletHandler.java:584)
at org.ops4j.pax.web.service.jetty.internal.HttpServiceServletHandler.doHandle(HttpServiceServletHandler.java:72)
at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:143)
at org.eclipse.jetty.security.SecurityHandler.handle(SecurityHandler.java:548)
at org.eclipse.jetty.server.session.SessionHandler.doHandle(SessionHandler.java:226)
at org.eclipse.jetty.server.handler.ContextHandler.doHandle(ContextHandler.java:1180)
at org.ops4j.pax.web.service.jetty.internal.HttpServiceContext.doHandle(HttpServiceContext.java:284)
at org.eclipse.jetty.servlet.ServletHandler.doScope(ServletHandler.java:512)
at org.eclipse.jetty.server.session.SessionHandler.doScope(SessionHandler.java:185)
at org.eclipse.jetty.server.handler.ContextHandler.doScope(ContextHandler.java:1112)
at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:141)
at org.ops4j.pax.web.service.jetty.internal.JettyServerHandlerCollection.handle(JettyServerHandlerCollection.java:80)
at org.eclipse.jetty.server.handler.HandlerWrapper.handle(HandlerWrapper.java:134)
at org.eclipse.jetty.server.Server.handle(Server.java:534)
at org.eclipse.jetty.server.HttpChannel.handle(HttpChannel.java:320)
at org.eclipse.jetty.server.HttpConnection.onFillable(HttpConnection.java:251)
at org.eclipse.jetty.io.AbstractConnection$ReadCallback.succeeded(AbstractConnection.java:273)
at org.eclipse.jetty.io.FillInterest.fillable(FillInterest.java:95)
at org.eclipse.jetty.io.SelectChannelEndPoint$2.run(SelectChannelEndPoint.java:93)
at org.eclipse.jetty.util.thread.strategy.ExecuteProduceConsume.executeProduceConsume(ExecuteProduceConsume.java:303)
at org.eclipse.jetty.util.thread.strategy.ExecuteProduceConsume.produceConsume(ExecuteProduceConsume.java:148)
at org.eclipse.jetty.util.thread.strategy.ExecuteProduceConsume.run(ExecuteProduceConsume.java:136)
at org.eclipse.jetty.util.thread.QueuedThreadPool.runJob(QueuedThreadPool.java:671)
at org.eclipse.jetty.util.thread.QueuedThreadPool$2.run(QueuedThreadPool.java:589)
at java.lang.Thread.run(Thread.java:745)
Caused by: java.net.URISyntaxException: Illegal character in path at index 8: $service{security.signature.properties}
at java.net.URI$Parser.fail(URI.java:2848)
at java.net.URI$Parser.checkChars(URI.java:3021)
at java.net.URI$Parser.parseHierarchical(URI.java:3105)
at java.net.URI$Parser.parse(URI.java:3063)
at java.net.URI.<init>(URI.java:588)
at java.net.URI.create(URI.java:850)
... 48 more
```

```
2018-05-08 20:19:58,269 | WARN | 1695614865-12924 | WebApplicationExceptionHandler | 45 - org.apache.cxf.cxf-rt-frontend-jaxrs - 3.1.11 | java
at org.apache.cxf.jaxrs.utils.SpecExceptions.toNotAuthorizedException(SpecExceptions.java:94)
at org.apache.cxf.jaxrs.utils.ExceptionUtils.toNotAuthorizedException(ExceptionUtils.java:137)
at org.apache.cxf.rs.security.saml.AbstractSamlInHandler.throwFault(AbstractSamlInHandler.java:270)
at org.apache.cxf.rs.security.saml.AbstractSamlInHandler.validateToken(AbstractSamlInHandler.java:190)
at org.apache.cxf.rs.security.saml.AbstractSamlInHandler.validateToken(AbstractSamlInHandler.java:115)
at org.apache.cxf.rs.security.saml.AbstractSamlInHandler.validateToken(AbstractSamlInHandler.java:98)
at org.apache.cxf.rs.security.saml.AbstractSamlBase64InHandler.handleToken(AbstractSamlBase64InHandler.java:53)
at org.apache.cxf.rs.security.saml.SamlHeaderInHandler.filter(SamlHeaderInHandler.java:53)
at org.apache.cxf.jaxrs.utils.JAXRSUtils.runContainerRequestFilters(JAXRSUtils.java:1650)
at org.apache.cxf.jaxrs.interceptor.JAXRSInInterceptor.processRequest(JAXRSInInterceptor.java:106)
at org.apache.cxf.jaxrs.interceptor.JAXRSInInterceptor.handleMessage(JAXRSInInterceptor.java:77)
at org.apache.cxf.phase.PhaseInterceptorChain.doIntercept(PhaseInterceptorChain.java:308)
at org.apache.cxf.transport.ChainInitiationObserver.onMessage(ChainInitiationObserver.java:121)
at org.apache.cxf.transport.http.AbstractHTTPDestination.invoke(AbstractHTTPDestination.java:262)
at org.apache.cxf.transport.servlet.ServletController.invokeDestination(ServletController.java:234)
at org.apache.cxf.transport.servlet.ServletController.invoke(ServletController.java:208)
at org.apache.cxf.transport.servlet.ServletController.invoke(ServletController.java:160)
at org.apache.cxf.transport.servlet.CXFNonSpringServlet.invoke(CXFNonSpringServlet.java:180)
at org.apache.cxf.transport.servlet.AbstractHTTPServlet.handleRequest(AbstractHTTPServlet.java:299)
at org.apache.cxf.transport.servlet.AbstractHTTPServlet.doGet(AbstractHTTPServlet.java:223)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:687)
```

```
at org.apache.cxf.transport.servlet.AbstractHTTPServlet.service(AbstractHTTPServlet.java:274)
at org.eclipse.jetty.servlet.ServletHolder.handle(ServletHolder.java:845)
at org.eclipse.jetty.servlet.ServletHandler.doHandle(ServletHandler.java:584)
at org.ops4j.pax.web.service.jetty.internal.HttpServiceServletHandler.doHandle(HttpServiceServletHandler.java:72)
at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:143)
at org.eclipse.jetty.security.SecurityHandler.handle(SecurityHandler.java:548)
at org.eclipse.jetty.server.session.SessionHandler.doHandle(SessionHandler.java:226)
at org.eclipse.jetty.server.handler.ContextHandler.doHandle(ContextHandler.java:1180)
at org.ops4j.pax.web.service.jetty.internal.HttpServiceContext.doHandle(HttpServiceContext.java:284)
at org.eclipse.jetty.servlet.ServletHandler.doScope(ServletHandler.java:512)
at org.eclipse.jetty.server.session.SessionHandler.doScope(SessionHandler.java:185)
at org.eclipse.jetty.server.handler.ContextHandler.doScope(ContextHandler.java:1112)
at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:141)
at org.ops4j.pax.web.service.jetty.internal.JettyServerHandlerCollection.handle(JettyServerHandlerCollection.java:80)
at org.eclipse.jetty.server.handler.HandlerWrapper.handle(HandlerWrapper.java:134)
at org.eclipse.jetty.server.Server.handle(Server.java:534)
at org.eclipse.jetty.server.HttpChannel.handle(HttpChannel.java:320)
at org.eclipse.jetty.server.HttpConnection.onFillable(HttpConnection.java:251)
at org.eclipse.jetty.io.AbstractConnection$ReadCallback.succeeded(AbstractConnection.java:273)
at org.eclipse.jetty.io.FillInterest.fillable(FillInterest.java:95)
at org.eclipse.jetty.io.SelectChannelEndPoint$2.run(SelectChannelEndPoint.java:93)
at org.eclipse.jetty.util.thread.strategy.ExecuteProduceConsume.executeProduceConsume(ExecuteProduceConsume.java:303)
at org.eclipse.jetty.util.thread.strategy.ExecuteProduceConsume.produceConsume(ExecuteProduceConsume.java:148)
at org.eclipse.jetty.util.thread.strategy.ExecuteProduceConsume.run(ExecuteProduceConsume.java:136)
at org.eclipse.jetty.util.thread.QueuedThreadPool.runJob(QueuedThreadPool.java:671)
at org.eclipse.jetty.util.thread.QueuedThreadPool$2.run(QueuedThreadPool.java:589)
at java.lang.Thread.run(Thread.java:745)
```

2018-05-08 20:19:58,271 | INFO | 1695614865-12924 | LoggingOutInterceptor | 32 - org.apache.cxf.cxf-core - 3.1.11 | Outbound Message

ID: 28
Response-Code: 401
Content-Type:
Headers: {Content-Type=[application/xml], Date=[Tue, 08 May 2018 18:19:58 GMT], Content-Length=[0]}

Thanks in advance.

Best regards,

Anselmo