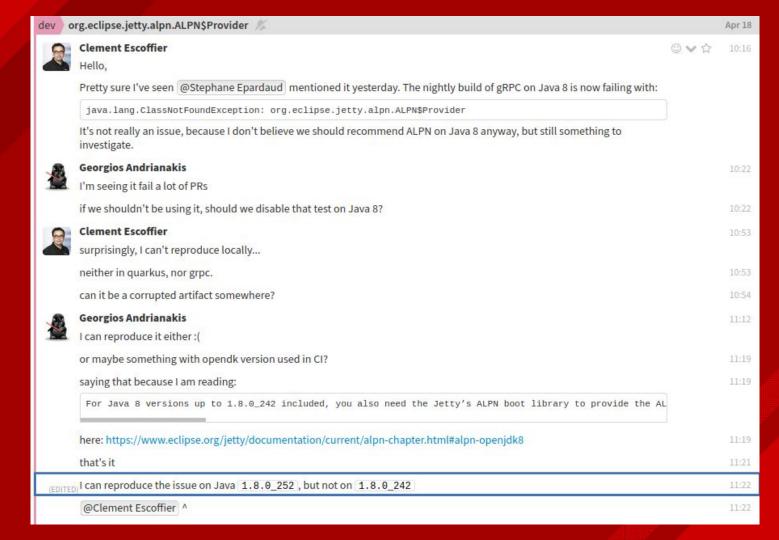


### **Backport:**

Introduction of a feature from an newer version to an old supported version



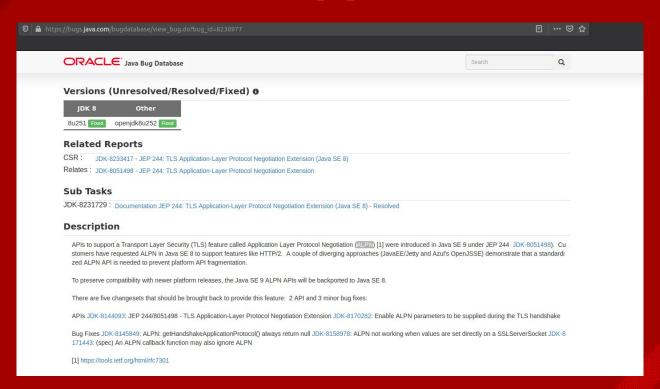


# Caused by: java.lang.ClassNotFoundException: org.eclipse.jetty.alpn.ALPN\$Provider

2020-04-17T14:25:47.1875779Z [INFO] Running io.quarkus.vertx.http.ssl.SslServerWithP12Test

```
2020-04-17T14:25:47.7709276Z 2020-04-17 14:25:47.231 WARN [io.qua.dep.QuarkusAugmentor] (main) Using Java versions older than 11 to build Quarkus applications is deprecated and will be disallowed in a future release!
2020-04-17T14:25:49.1660983Z 2020-04-17 14:25:49,165 INFO [io.quarkus] (main) Quarkus 999-SNAPSHOT started in 1.583s. Listening on: http://0.0.0.0:8081 and https://0.0.0.0:8081
2020-04-17T14:25:49.1669968Z 2020-04-17 14:25:49.165 INFO [io.guarkus] (main) Profile test activated.
2020-04-17T14:25:49.1671764Z 2020-04-17 14:25:49.166 INFO [io.quarkus] (main) Installed features: [cdi, security]
2020-04-17T14:25:49.8596563Z 2020-04-17 14:25:49.855 WARN [io.net.cha.ChannelInitializer] (vert.x-eventloop-thread-3) Failed to initialize a channel. Closing: [id: 0x5f0b0486, L:/10.1.0.4:8444 - R:/10.1.0.4:54694]: java.lang.NoClassDefFoundError:
org/eclipse/ietty/alpn/ALPN$Provider
2020-04-17T14:25:49.8597123Z
                               at io.netty.handler.ssl.JettyAlpnSslEngine.newServerEngine(JettyAlpnSslEngine.java:60)
2020-04-17T14:25:49.8597557Z
                                at io.netty.handler.ssl.JdkAlpnApplicationProtocolNegotiator$AlpnWrapper.wrapSslEngine(JdkAlpnApplicationProtocolNegotiator.java:141)
                                at io.netty.handler.ssl.JdkSslContext.configureAndWrapEngine(JdkSslContext.java:360)
2020-04-17T14:25:49.8597802Z
2020-04-17T14:25:49.8598373Z
                                at io.netty.handler.ssl.JdkSslContext.newEngine(JdkSslContext.java:330)
2020-04-17T14:25:49.8598637Z
                                at io.vertx.core.net.impl.SSLHelper.createEngine(SSLHelper.java:538)
2020-04-17T14:25:49.8598917Z
                                at io.vertx.core.http.impl.HttpServerChannelInitializer.initChannel(HttpServerChannelInitializer.java:105)
2020-04-17T14:25:49.8599177Z
                                at io.vertx.core.http.impl.HttpServerImpl$1.initChannel(HttpServerImpl.java:215)
2020-04-17T14:25:49.8599425Z
                                at io.netty.channel.ChannelInitializer.initChannel(ChannelInitializer.java:129)
2020-04-17T14:25:49.8599650Z
                                at io.netty.channel.ChannelInitializer.handlerAdded(ChannelInitializer.java:112)
2020-04-17T14:25:49.8599900Z
                                at io.netty.channel.AbstractChannelHandlerContext.callHandlerAdded(AbstractChannelHandlerContext.java:956)
2020-04-17T14:25:49.8600156Z
                                at io.netty.channel.DefaultChannelPipeline.callHandlerAdded0(DefaultChannelPipeline.java:609)
2020-04-17T14:25:49.8600401Z
                                at io.nettv.channel.DefaultChannelPipeline.access$100(DefaultChannelPipeline.java:46)
2020-04-17T14:25:49.8600662Z
                                at io.netty.channel.DefaultChannelPipeline$PendingHandlerAddedTask.execute(DefaultChannelPipeline.java:1463)
                                at io.netty.channel.DefaultChannelPipeline.callHandlerAddedForAllHandlers(DefaultChannelPipeline.java:1115)
2020-04-17T14:25:49.8600934Z
2020-04-17T14:25:49.8601184Z
                                at io.netty.channel.DefaultChannelPipeline.invokeHandlerAddedIfNeeded(DefaultChannelPipeline.iava:650)
2020-04-17T14:25:49.8601409Z
                                at io.netty.channel.AbstractChannel$AbstractUnsafe.register0(AbstractChannel.java:502)
                                at io.netty.channel.AbstractChannel$AbstractUnsafe.access$200(AbstractChannel.java:417)
2020-04-17T14:25:49.8601648Z
                                at io.netty.channel.AbstractChannel$AbstractUnsafe$1.run(AbstractChannel.iava:474)
2020-04-17T14:25:49.8601886Z
                                at io.netty.util.concurrent.AbstractEventExecutor.safeExecute(AbstractEventExecutor.java:164)
2020-04-17T14:25:49.8602126Z
2020-04-17T14:25:49.8602375Z
                                at io.netty.util.concurrent.SingleThreadEventExecutor.runAllTasks(SingleThreadEventExecutor.java:472)
2020-04-17T14:25:49.8602728Z
                                at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:500)
2020-04-17T14:25:49.8602972Z
                                at io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.java:989)
2020-04-17T14:25:49.8603199Z
                                at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
2020-04-17T14:25:49.8603439Z
                                at io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.iava:30)
                                at java.lang.Thread.run(Thread.java:748)
2020-04-17T14:25:49.8603671Z
2020-04-17T14:25:49.8603900Z Caused by: java.lang.ClassNotFoundException: org.eclipse.jetty.alpn.ALPN$Provider
                                at java.net.URLClassLoader.findClass(URLClassLoader.java:382)
2020-04-17T14:25:49.8604136Z
2020-04-17T14:25:49.8604350Z
                                at java.lang.ClassLoader.loadClass(ClassLoader.java:418)
2020-04-17T14:25:49.8604580Z
                                at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:352)
2020-04-17T14:25:49.8604809Z
                                at java.lang.ClassLoader.loadClass(ClassLoader.java:351)
2020-04-17T14:25:49.8605057Z
                                at io.quarkus.bootstrap.classloadinq.QuarkusClassLoader.loadClass(QuarkusClassLoader.java:341)
2020-04-17T14:25:49.8605302Z
                                at io.quarkus.bootstrap.classloadinq.QuarkusClassLoader.loadClass(QuarkusClassLoader.java:294)
2020-04-17T14:25:49.8605546Z
                                at io.quarkus.bootstrap.classloading.QuarkusClassLoader.loadClass(QuarkusClassLoader.java:341)
2020-04-17T14:25:49.8605781Z
                                at io.quarkus.bootstrap.classloading.QuarkusClassLoader.loadClass(QuarkusClassLoader.java:294)
2020-04-17T14:25:49.8605993Z
2020-04-17T14:25:49.8606174Z
```

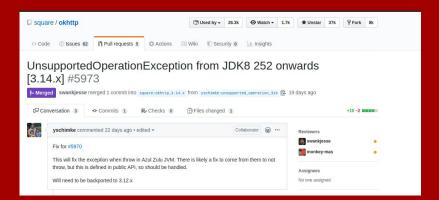
## What happened?

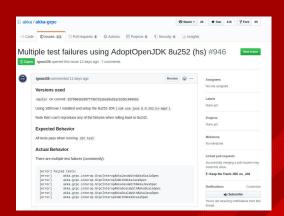


#### The result









# Takeaways

# Don't depend on "latest" in Cl

```
- name: Set up JDK 8

# Uses sha for added security since tags can be updated

uses: joschi/setup-jdk@b9cc6eabf7e7e3889766b5cee486f874c9e1bd2d

with:

java-version: 8
```

# Don't depend on "latest" in Cl

The docker community has known this for years

■ https://developers.redhat.com/blog/2016/02/24/10-things-to-avoid-in-docker-containers/

6) Don't use only the "latest" tag - The latest tag is just like the "SNAPSHOT" for Maven

# Use feature detection instead of version detection

The JavaScript community has known this for years

#### The concept of feature detection

The idea behind feature detection is that you can run a test to determine whether a feature is supported in the current browser, and then conditionally run code to provide an acceptable experience both in browsers that *do* support the feature, and browsers that *don't*. If you don't do this, browsers that don't support the features you are using in your code won't display your sites properly and will just fail, creating a bad user experience.

Let's recap and look at the example we touched on in our Handling common JavaScript problems — the Geolocation API (which exposes available location data for the device the web browser is running on) has the main entry point for its use, a geolocation property available on the global Navigator object. Therefore, you can detect whether the browser supports geolocation or not by using something like the following:

