# Installer - Bug #34130

# Puppetserver runs under Java 8 instead of Java 11 in Katello scenario

12/10/2021 04:58 PM - Eric Helms

Status:	New	
Priority:	Normal	
Assignee:		
Category:		
Target version:		
Difficulty:		Fixed in Releases:
Triaged:	No	Found in Releases:
Bugzilla link:		Red Hat JIRA:
Pull request:		

## Description

The puppet-candlepin configuration we have is designed to install and ensure Java 11 is present and Tomcat runs under this version. Which it does:

However, one of the dependencies of Tomcat is tomcatjss which has a requires on openjdk-1.8.0:

```
[root@pipe-katello-server-nightly-centos8 vagrant]# rpm -q tomcatjss --requires
apache-commons-lang3
java-1.8.0-openjdk-headless
jpackage-utils >= 0:1.7.5-15
jss >= 4.9.0
jss < 5.0.0
pki-servlet-engine >= 1:9.0.7
rpmlib(CompressedFileNames) <= 3.0.4-1
rpmlib(FileDigests) <= 4.6.0-1
rpmlib(PayloadFilesHavePrefix) <= 4.0-1
rpmlib(PayloadIsXz) <= 5.2-1
slf4j
slf4j-jdk14</pre>
```

This leads to the default java version being 8 and not 11:

```
[root@pipe-katello-server-nightly-centos8 vagrant] # update-alternatives --config java
```

There are 2 programs which provide 'java'.

Puppetserver's start up command relies on calling /usr/bin/java which is always set to whatever the current alternative is set to. This means that Puppetserver ends up running under Java 8 instead of the newer Java 11:

```
• puppetserver.service - puppetserver Service
Loaded: loaded (/usr/lib/systemd/system/puppetserver.service; enabled; vendor preset: disabled)
```

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We either need to solve this packaging problem (we get tomcatjss from pki-core) or find a way to adjust the alternatives to ensure Java 11 is the default enabled.

## History

## #1 - 12/10/2021 05:05 PM - Ewoud Kohl van Wijngaarden

You should be able to run --puppet-server-jwm-java-bin /usr/lib/jvm/jre-11/bin/java to get it to use Java 11. This is not pretty and there should be a better way. However, it should provide a way to verify it works.

### #2 - 12/13/2021 02:15 PM - Evgeni Golov

This makes me ask more questions than you originally signed up for, and I am already sorry.

- 1. For Puppet, I think puppet-puppet should just configure the right Java we want it to use, instead of using /usr/bin/java?
- 2. Why does tomcatjss depend on a specific JDK? To the best of my knowledge, compiling Java code with JDK N guarantees that the binary is (technically) compatible with EVERY N+x JDK

#### #3 - 03/14/2024 09:28 AM - Rune Philosof

It is no longer tomcatiss, but the result is still the same. pki-servlet-engine requires java-1.8.0.

```
dnf repoquery --whatdepends java-1.8.0-openjdk --installed
# java-1.8.0-openjdk-devel-1:1.8.0.402.b06-2.el8.x86_64
dnf repoquery --whatdepends java-1.8.0-openjdk-devel --installed
# ant-0:1.10.5-1.module+el8+2598+06babf2e.noarch
# pki-servlet-engine-1:9.0.50-1.module+el8.7.0+15761+f86c9a56.noarch
dnf repoquery --whatdepends pki-servlet-engine --installed
# candlepin-0:4.3.12-1.el8.noarch
```

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