

JAVA upgrade

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Overview

Please Note: Upgrading the Appliance to version 2.0.16 will automatically upgrade Java to version 1.6.0_30.

It is not recommended to upgrade the JAVA on a Swivel appliance without first having spoken to Swivel support.

How to upgrade the currently installed version of JAVA on a Swivel Appliance.

Prerequisites

Swivel appliance, and extensive Linux command line knowledge. Updating the installed version of JAVA could have serious consequences and it is recommended that only Swivel staff, or accredited resellers perform the work.

Each Swivel instance including Active/Active, DR, and Active/Passive appliances will need to be upgraded.

Symptoms

Upgrade JAVA in order to run Swivel 3.6 or later.

Solution

1. Login to appliance through the **CMI** and access the Command Line.

2. change to the /usr/java directory

```
cd /usr/java
```

3. Download java from www.sun.com. Recommended version jre-6u18-linux-i586-rpm.bin. Example URL from Sun website.

```
wget -O jre-6u18-linux-i586-rpm.bin http://javadl.sun.com/webapps/download/AutoDL?BundleId=37391
```

4. Change file permission to ensure downloaded file is executable:

```
chmod 755 jre-6u18-linux-i586-rpm.bin
```

5. Stop Tomcat (note on Active/Active and Active/Passive appliances on the standby stop Mon and Heartbeat, and on the standby stop Mon only)

```
service tomcat5 stop
```

6. Unpack the java bin file

```
./jre-6u18-linux-i586-rpm.bin
```

7. Take a copy then edit /etc/profile and search for ?java?. Replace all instances of the directory path with ?/usr/java/<new version>?.

```
mc /etc
```

Scroll down the section where all the file names are in grey and locate "profile". Next, press F4 to edit the file.

After which, press F7 to enable a search and enter "java".

Change

```
export JAVA_HOME=/usr/java/jre1.5.0_11 export PATH=$PATH:/usr/java/jre1.5.0_11/bin
```

To:

```
export JAVA_HOME=/usr/java/jre1.6.0_18 export PATH=$PATH:/usr/java/jre1.6.0_18/bin
```

8. Edit /etc/init.d/tomcat5 and search for ?java?. Replace all instances of the directory path with ?/usr/java/<new version>?

change

```
export JAVA_HOME=/usr/java/jre1.5.0_11
```

to

```
export JAVA_HOME=/usr/java/jre1.6.0_18
```

9. Start Tomcat

```
service tomcat5 start
```

10. Check the Tomcat process is using /usr/java/<new version>

```
ps -eaf | grep tomcat
```

Example, Old Version:

```
ps -eaf | grep tomcat
```

```
swivel 11995 1 73 17:42 pts/0 00:00:10 /usr/java/jre1.5.0_11/bin/java -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager
-Djava.util.logging.config.file=/usr/local/apache-tomcat-5.5.20/conf/logging.properties
-Djava.endorsed.dirs=/usr/local/apache-tomcat-5.5.20/common/endorsed
-classpath ./usr/local/apache-tomcat-5.5.20/bin/bootstrap.jar:/usr/local/apache-tomcat-5.5.20/bin/commons-logging-api.jar
-Dcatalina.base=/usr/local/apache-tomcat-5.5.20 -Dcatalina.home=/usr/local/apache-tomcat-5.5.20
-Djava.io.tmpdir=/usr/local/apache-tomcat-5.5.20/temp org.apache.catalina.startup.Bootstrap start root 12082 11451 0 17:42 pts/0 00:00:00 grep tomcat
```

Example, New Version:

```
ps -eaf | grep -i tomcat
```

```
swivel 12663 1 99 17:52 pts/1 00:00:07 /usr/java/jre1.6.0_18/bin/java -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager
-Djava.util.logging.config.file=/usr/local/apache-tomcat-5.5.20/conf/logging.properties
-Djava.endorsed.dirs=/usr/local/apache-tomcat-5.5.20/common/endorsed
-classpath ./usr/local/apache-tomcat-5.5.20/bin/bootstrap.jar:/usr/local/apache-tomcat-5.5.20/bin/commons-logging-api.jar
-Dcatalina.base=/usr/local/apache-tomcat-5.5.20 -Dcatalina.home=/usr/local/apache-tomcat-5.5.20
-Djava.io.tmpdir=/usr/local/apache-tomcat-5.5.20/temp org.apache.catalina.startup.Bootstrap start root 12687 12586 0 17:52 pts/1 00:00:00 grep -i
tomcat
```

11. Check Swivel works

Login to the Administration console.

Troubleshooting

Check the Tomcat logs in /var/log/tomcat Check for any typos in

```
/etc/init.d/tomcat5
/etc/profile
```