## Upgrade Nexus version

Thursday, June 15, 2023 5:50 PM

After Upgrade RHEL from 7 --> 8 the Nexus application cannot start and when check the logs found issue about file missing

# less sonatype-work/nexus3/log/nexus.log

Caused by: java.io.FileNotFoundException: /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.362.b08-1.el7 9.x86 64/jre/lib/security/cacerts (No such file or directory)

## # Production

## # UAT

```
[root@spnxsombkcatu1 (PROD) /usr/local/nexus-3.37.3-02]# cat ../nexus-3.37.3-02/bin/nexus.ymoptions
-Xms2703m
-Xmx2703m
-XX:MaxDirectMemorvSize=2703m
-XX:+UnlockDiagnosticVMOptions
-XX:+LogVMOutput
-XX:LogFile=../sonatype-work/nexus3/log/jvm.log
 -XX:-OmitStackTraceInFastThrow
-Djava.net.preferIPv4Stack=true
-Dkaraf.home=.
-Dkaraf.base=.
-Dkaraf.etc=etc/karaf
-Djava.util.logging.config.file=etc/karaf/java.util.logging.properties
-Dkaraf.data=../sonatype-work/nexus3
-Dkaraf.log=../sonatype-work/nexus3/log
-Djava.io.tmpdir=../sonatype-work/nexus3/tmp
-Dkaraf.startLocalConsole=false
-Djdk.tls.ephemeralDHKeySize=2048
# additional vmoptions needed for Java9+
# --add-reads=java.xml=java.logging
# --add-exports=java.base/org.apache.karaf.specs.locator=java.xml,ALL-UNNAMED
# --patch-module java.base=${KARAF_HOME}/lib/endorsed/org.apache.karaf.specs.locator-4.3.2.jar
# --patch-module java.xml=${KARAF_HOME}/lib/endorsed/org.apache.karaf.specs.java.xml-4.3.2.jar
# --add-opens java.base/java.security=ALL-UNNAMED
# --add-opens java.base/java.net=ALL-UNNAMED
# --add-opens java.base/java.lang=ALL-UNNAMED
# --add-opens java.base/java.util=ALL-UNNAMED
# --add-opens java.naming/javax.naming.spi=ALL-UNNAMED
# --add-opens java.rmi/sun.rmi.transport.tcp=ALL-UNNAMED
# --add-exports=java.base/sun.net.www.protocol.http=ALL-UNNAMED
# --add-exports=java.base/sun.net.www.protocol.https=ALL-UNNAMED
```

```
# --add-exports=java.base/sun.net.www.protocol.jar=ALL-UNNAMED
# --add-exports=jdk.xml.dom/org.w3c.dom.html=ALL-UNNAMED
# --add-exports=jdk.xml.icom.sun.jndi.url.rmi=ALL-UNNAMED
# --add-exports java.security.sasl/com.sun.security.sasl=ALL-UNNAMED
# --add-exports java.security.sasl/com.sun.security.sasl=ALL-UNNAMED
# # comment out this vmoption when using Java9+
# --Djava.endorsed.dirs=lib/endorsed
# -Djava.net.ssl.trustStore=/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.362.b08-1.el7_9 x86_64/jre/lib/security/cacerts
--Djavax.net.ssl.trustStore=/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.372.b07-1.el8_7.x86_64/jre/lib/security/cacerts
--Djavax.net.ssl.trustStore=Password=changeit
[root@spnxsombkcatu1 (PROD) /usr/local/nexus-3.37.3-02]#
```

```
[root@spnxsombkcatu1 (PROD) /usr/local]#
[root@spnxsombkcatu1 (PROD) /usr/local]# ls -ltr
total 205600
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 src
drwxr-xr-x. 5 root root
                          49 Jun 21 2021 share
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 sbin
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 libexec
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 lib
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 include
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 games
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 etc
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 bin
                           20 Feb 14 2022 sonatype-work
drwxr-xr-x. 3 nexus nexus
lrwxrwxrwx. 1 root root
                          15 Feb 14 2022 nexus -> nexus-3.37.3-02
drwxr-xr-x. 10 nexus nexus
                           208 Mar 1 2022 nexus-3.37.3-02
drwxrwx---. 3 root root
                          25 Oct 28 2022 qualys
-rw-r--r--. 1 root root 210531214 May 30 19:02 nexus-3.54.1-01-unix.tar.gz
drwxr-xr-x. 3 root root
                         17 Jun 15 15:54 lib64
[root@spnxsombkcatu1 (PROD) /usr/local]#
[root@spnxsombkcatu1 (PROD) /usr/local]# tar-xpvf nexus-3.54.1-01-unix.tar.gz
[root@spnxsombkcatu1 (PROD) /usr/local]# Is -ltr
total 205600
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 src
drwxr-xr-x. 5 root root
                          49 Jun 21 2021 share
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 sbin
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 libexed
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 lib
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 include
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 games
drwxr-xr-x. 2 root root
                          6 Jun 21 2021 etc
                          6 Jun 21 2021 bin
drwxr-xr-x. 2 root root
drwxr-xr-x. 3 nexus nexus 20 Feb 14 2022 sonatype-work
Irwxrwxrwx. 1 root root
                          15 Feb 14 2022 nexus -> nexus-3.37.3-02
drwxr-xr-x. 10 nexus nexus
                           208 Mar 1 2022 nexus-3.37.3-02
drwxrwx---. 3 root root
                          25 Oct 28 2022 qualys
-rw-r--r-. 1 root root 210531214 May 30 19:02 nexus-3.54.1-01-unix.tar.gz
drwxr-xr-x. 3 root root
                          17 Jun 15 15:54 lib64
drwxr-xr-x. 10 root root
                          181 Jun 19 10:04 nexus-3.54.1-01
[root@spnxsombkcatu1 (PROD) /usr/local]#
[root@spnxsombkcatu1 (PROD) /usr/local]# chown -R nexus: nexus-3.54.1-01
```

```
[root@spnxsombkcatu1 (PROD) /usr/local]# systemctl status nexus
? nexus.service - nexus service
 Loaded: loaded (/etc/systemd/system/nexus.service: enabled; vendor preset; disabled)
 Active: active (running) since Thu 2023-06-15 19:52:49 +07; 3 days ago
 Process: 53906 ExecStart=/usr/local/nexus-3.37.3-02/bin/nexus start (code=exited, status=0/SUCCESS)
Main PID: 54108 (iava)
 Tasks: 125 (limit: 23493)
 Memory: 1.3G
 CGroup: /system.slice/nexus.service
      +-54108 /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.372.b07-1.el8_7.x86_64/jre/bin/java-server -Dinstall4j.jvmDir=/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.372.b07-1.el8_7.x86_64/jre -Dexe>
Warning: Journal has been rotated since unit was started. Log output is incomplete or unavailable.
[root@spnxsombkcatu1 (PROD) /usr/local]#
[root@spnxsombkcatu1 (PROD) /usr/local]# Is -ltr
total 205600
drwxr-xr-x 2 root root
                           6 Jun 21 2021 src
drwxr-xr-x. 5 root root
                           49 Jun 21 2021 share
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 sbin
                           6 Jun 21 2021 libexed
drwxr-xr-x. 2 root root
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 lib
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 include
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 games
drwxr-xr-x. 2 root root
                            6 Jun 21 2021 etc.
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 bin
drwxr-xr-x. 3 nexus nexus
                            20 Feb 14 2022 sonatype-work
                            15 Feb 14 2022 nexus -> nexus-3.37.3-02
lrwxrwxrwx. 1 root root
                            208 Mar 1 2022 nexus-3.37.3-02
drwxr-xr-x. 10 nexus nexus
```

```
drwxrwx---. 3 root root
                           25 Oct 28 2022 qualys
-rw-r--r-. 1 root root 210531214 May 30 19:02 nexus-3.54.1-01-unix.tar.gz
drwxr-xr-x. 3 root root 17 Jun 15 15:54 lib64
                           181 Jun 19 10:04 nexus-3.54.1-01
drwxr-xr-x. 10 root root
[root@spnxsombkcatu1 (PROD) /usr/local]#
[root@spnxsombkcatu1 (PROD) /usr/local]# rm -f nexus
[root@spnxsombkcatu1 (PROD) /usr/local]# In -s nexus-3.54.1-01 nexus
[root@spnxsombkcatu1 (PROD) /usr/local]# Is -ltr
total 205600
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 src
drwxr-xr-x. 5 root root
                           49 Jun 21 2021 share
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 sbin
                           6 Jun 21 2021 libexec
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 lib
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 include
drwxr-xr-x. 2 root root
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 games
                           6 Jun 21 2021 etc
drwxr-xr-x. 2 root root
drwxr-xr-x. 2 root root
                           6 Jun 21 2021 bin
drwxr-xr-x. 3 nexus nexus 20 Feb 14 2022 sonatype-work
lrwxrwxrwx. 1 root root
                           15 Feb 14 2022 nexus -> nexus-3.37.3-02
                          25 Oct 28 2022 qualys
drwxrwx---. 3 root root
-rw-r--r-. 1 root root 210531214 May 30 19:02 nexus-3.54.1-01-unix.tar.gz
drwxr-xr-x. 3 root root 17 Jun 15 15:54 lib64 drwxr-xr-x. 10 root root 181 Jun 19 10:04 next
                          181 Jun 19 10:04 nexus-3.54.1-01
drwxr-xr-x. 10 nexus nexus 231 Jun 19 10:13 nexus-3.37.3-02
[root@spnxsombkcatu1 (PROD) /usr/local]#
```

Only on UAT

6c6

# vim /etc/zabbix/zabbix\_agentd.conf

```
# vim /etc/systemd/system/nexus.service
[Unit]
Description=nexus service
After=network.target
[Service]
Type=forking
LimitNOFILE=65536
ExecStart=/usr/local/nexus-3.54.1-01/bin/nexus start
ExecStop=/usr/local/nexus-3.54.1-01/bin/nexus stop
User=nexus
Restart=on-abort
TimeoutSec=600
[Install]
WantedBy=multi-user.target
[root@spnxsombkcatu1 (PROD) /usr/local]# systemctl daemon-reload
[root@spnxsombkcatu1 (PROD) /usr/local]# systemctl start nexus
[root@spnxsombkcatu1 (PROD) /usr/local]# systemctl status nexus
? nexus.service - nexus service
 Loaded: loaded (/etc/systemd/system/nexus.service; enabled; vendor preset: disabled)
 Active: active (running) since Mon 2023-06-19 10:17:12 +07; 21s ago
Main PID: 533389 (java)
 Tasks: 60 (limit: 23493)
 Memory: 2.1G
 CGroup: /system.slice/nexus.service
      +-533389 /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.372.b07-1.el8_7.x86_64/jre/bin/java-server -Dinstall4j.jvmDir=/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.372.b07-1.el8_7.x86_64/jre-Dex>
Jun 19 10:17:12 spnxsombkcatu1.bred-it-prod.ad.production.local systemd[1]: Starting nexus service...
Jun 19 10:17:12 spnxsombkcatu1.bred-it-prod.ad.production.local systemd[1]: Started nexus service.
[root@spnxsombkcatu1 (PROD) /usr/local]#
```

```
# Nexus log location
/usr/local/sonatype-work/nexus3/log
2023-06-19 10:25:28,592+0700 ERROR [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.jetty.JettyServer - Failed to start
2023-06-19 10:25:32,355+0700 ERROR [quartz-10-thread-1] *SYSTEM org.quartz.core.ErrorLogger - Unable to notify JobListener(s) of Job that was executed: (error will be ignored). trigger= nexus.cf4e042d-
ca87-4113-a59d-0462fd50d7d4 job= nexus.cf4e042d-ca87-4113-a59d-0462fd50d7d4
2023-06-19 10:41:14,290+0700 ERROR [jetty-main-1] *SYSTEM org.sonatype.nexus.bootstrap.jetty.lettyServer - Failed to start
2023-06-19 10:41:17,689+0700 ERROR [quartz-10-thread-1] *SYSTEM org.quartz.core.ErrorLogger - Unable to notify JobListener(s) of Job that was executed: (error will be ignored). trigger=
DEFAULT.6da64b5bd2ee-62c87306-b248-4482-b1c3-84ddfbe3b9e3 job= nexus.cf4e042d-ca87-4113-a59d-0462fd50d7d4
2023-06-19\ 10: 50: 31,559+0700\ ERROR\ [jetty-main-1]\ \ *SYSTEM\ org. son a type.nex us.bootstrap.jetty.JettyServer-Failed\ to\ start
2023-06-19 10:50:35,138+0700 ERROR [quartz-10-thread-1] *SYSTEM org.quartz.core.ErrorLogger - Unable to notify JobListener(s) of Job that was executed: (error will be ignored). trigger= DEFAULT.6da64b5bd2ee
fd78b9b5-5c8b-4d51-9a1c-4d7ab0288d80 job= nexus.cf4e042d-ca87-4113-a59d-0462fd50d7d4
# Backup original configure
[root@spnxsombkcatu1~(PROD)~/usr/local/sonatype-work/nexus3/log] \# cp~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus-3.54.1-01/etc/jetty-https.xml~/usr/local/nexus
# Modify configure
[root@spnxsombkcatu1 (PROD) /usr/local/sonatype-work/nexus3/log]# cp /usr/local/nexus-3.37.3-02/etc/jetty/jetty-https.xml /usr/local/nexus-3.54.1-01/etc/jetty/jetty-https.xml
[root@spnxsombkcatu1 (PROD) /usr/local]# systemctl start nexus; systemctl status nexus
# The different point between 2 files
[root@spnxsombkcatu1~(PROD)~/usr/local/nexus-3.54.1-01/etc/jetty] \#~diff~jetty-https.xml.backup~jetty-https.xml. + the contraction of the contra
```

## # Summaries

- 1. Unarchive file by this command # tar -xpvzf /usr/local/nexus-3.55.0-01-unix.tar.gz -C /usr/local/; ls -ltr /usr/local
- 2. Backup original "nexus.vmoptions" file then add this line into that. # cp nexus.vmoptions nexus.vmoptions.backup.ori; echo -e "-Djavax.net.ssl.trustStore=/usr/lib/jym/java-1.8.0-openjdk-1.8.0.372.b07-1.el8\_7.x86\_64/jre/lib/security/cacerts" >> nexus.vmoptions; tail nexus.vmoptions
- 3. Backup "jetty-https.xml" file then copy jetty https configure from the current configure to replace it. # cp /usr/local/nexus -3.37.3-02/etc/jetty/jetty-https.xml /usr/local/nexus-3.55.0-01/etc/jetty/jetty-https.xml
- 4. Check nexus service status then stop it # systemctl status nexus; systemctl stop nexus
- 5. Remove old link and create new link # rm -f nexus && In -s nexus-3.55.0-01 nexus; Is -ltr /usr/local
- 6. Change owner of the directory # chown -R nexus: /usr/local/nexus-3.55.0-01
- 7. Modify nexus service before start # vim /etc/systemd/system/nexus.service ; ExecStart=/usr/local/nexus -3.55.0-01/bin/nexus <-- nexus-3.55.0-01
- 8. Reload demon service after modify # systemctl daemon-reload
- 9. Start nexus service # systemctl start nexus
- 10. Check nexus version on server # curl --include --silent http://localhost:8081/ | grep Server