

## Oracle Database/Client 11.2.0.4 on RHEL/OL 8.x : OUI fails to launch with Errors "There was an error trying to initialize the HPI library.....Could not create the Java virtual machine" (Doc ID 2889673.1)

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### APPLIES TO:

Oracle Database - Enterprise Edition - Version 11.2.0.4 and later  
Linux x86-64

### SYMPTOMS

While installing Oracle Database/Client 11.2.0.4 on RHEL/OL 8.x, OUI fails to launch with below errors-

```
-----  
Initializing Java Virtual Machine from /tmp/OraInstall2022-08-14_07-43-16AM/jdk/jre/bin/java. Please wait...  
There was an error trying to initialize the HPI library.  
Please check your installation, HotSpot does not work correctly  
when installed in the JDK 1.2 Linux Production Release, or  
with any JDK 1.1.x release.  
Could not create the Java virtual machine.
```

Java from the staging location is failing to launch-

```
$ /tmp/OraInstall2022-08-14_07-43-16AM/jdk/jre/bin/java -version  
There was an error trying to initialize the HPI library.  
Please check your installation, HotSpot does not work correctly  
when installed in the JDK 1.2 Linux Production Release, or  
with any JDK 1.1.x release.  
Could not create the Java virtual machine.
```

OS Trace of the java command shows following lines-

```
89116 openat(AT_FDCWD, "/tmp/OraInstall2022-08-14_07-43-16AM/jdk/jre/lib/amd64/server/libnsl.so.1",  
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)  
89116 openat(AT_FDCWD, "/tmp/OraInstall2022-08-14_07-43-16AM/jdk/jre/lib/amd64/libnsl.so.1",  
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)  
89116 openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3  
89116 fstat(3, {st_mode=S_IFREG|0644, st_size=54311, ...}) = 0  
89116 mmap(NULL, 54311, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f2423345000  
89116 close(3) = 0  
89116 openat(AT_FDCWD, "/lib64/tls/x86_64/x86_64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file  
or directory)  
89116 stat("/lib64/tls/x86_64/x86_64", 0x7ffff97a01a0) = -1 ENOENT (No such file or directory)  
89116 openat(AT_FDCWD, "/lib64/tls/x86_64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or  
directory)  
89116 stat("/lib64/tls/x86_64", 0x7ffff97a01a0) = -1 ENOENT (No such file or directory)  
89116 openat(AT_FDCWD, "/lib64/tls/x86_64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or  
directory)
```

```

89116 stat("/lib64/tls/x86_64", 0x7ffff97a01a0) = -1 ENOENT (No such file or directory)
89116 openat(AT_FDCWD, "/lib64/tls/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
=====CONT'D=====
89116 openat(AT_FDCWD, "/usr/lib64/tls/x86_64/x86_64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such
file or directory)
89116 stat("/usr/lib64/tls/x86_64/x86_64", 0x7ffff97a01a0) = -1 ENOENT (No such file or directory)
89116 openat(AT_FDCWD, "/usr/lib64/tls/x86_64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or
directory)
89116 stat("/usr/lib64/tls/x86_64", 0x7ffff97a01a0) = -1 ENOENT (No such file or directory)
89116 openat(AT_FDCWD, "/usr/lib64/tls/x86_64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or
directory)
89116 stat("/usr/lib64/tls/x86_64", 0x7ffff97a01a0) = -1 ENOENT (No such file or directory)
89116 openat(AT_FDCWD, "/usr/lib64/tls/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or
directory)
89116 stat("/usr/lib64/tls", {st_mode=S_IFDIR|0555, st_size=6, ...}) = 0
89116 openat(AT_FDCWD, "/usr/lib64/x86_64/x86_64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such
file or directory)
89116 stat("/usr/lib64/x86_64/x86_64", 0x7ffff97a01a0) = -1 ENOENT (No such file or directory)
89116 openat(AT_FDCWD, "/usr/lib64/x86_64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or
directory)
89116 stat("/usr/lib64/x86_64", 0x7ffff97a01a0) = -1 ENOENT (No such file or directory)
89116 openat(AT_FDCWD, "/usr/lib64/x86_64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or
directory)
89116 stat("/usr/lib64/x86_64", 0x7ffff97a01a0) = -1 ENOENT (No such file or directory)
89116 openat(AT_FDCWD, "/usr/lib64/libnsl.so.1", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
89116 stat("/usr/lib64", {st_mode=S_IFDIR|0555, st_size=98304, ...}) = 0
89116 munmap(0x7f2423345000, 54311) = 0
89116 munmap(0x7f2423353000, 1092216) = 0
89116 write(1, "There was an error trying to ini...", 57) = 57
89116 write(1, "Please check your installation, "...", 64) = 64
89116 write(1, "when installed in the JDK 1.2 Li...", 59) = 59
89116 write(1, "with any JDK 1.1.x release.\n", 28) = 28
89116 write(2, "Could not create the Java virtua...", 43) = 43
89116 exit_group(1) = ?
89116 +++ exited with 1 +++

```

## CAUSE

Missing RPM libnsl-

```
# rpm -qa | grep -i libnsl
libnsl2-1.2.0-2.20180605git4a062cf.el8.x86_64
```

Note - libnsl2 is different from libnsl.

## SOLUTION

Install libnsl RPM and verify via below commands , if java from staging location works-

```
# rpm -qa | grep -i libnsl
libnsl2-1.2.0-2.20180605git4a062cf.el8.x86_64
libnsl-2.28-189.5.0.1.el8_6.x86_64 <<<<<<<<<<<<<<

# pwd
/tmp/OraInstall2022-08-14_07-43-16AM/jdk/jre/bin
```

```
# ./java -version
java version "1.5.0_51"
Java(TM) 2 Runtime Environment, Standard Edition (build 1.5.0_51-b10)
Java HotSpot(TM) 64-Bit Server VM (build 1.5.0_51-b10, mixed mode)
```

## Launch OUI & complete the Installation

Didn't find what you are looking for?