

INS-06006 GI RunInstaller Fails If OpenSSH Is Upgraded to 8.x (Doc ID 2555697.1)

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APPLIES TO:

Oracle Database - Enterprise Edition - Version 19.3.0.0.0 and later
Information in this document applies to any platform.

SYMPTOMS

When attempting to configure 19c grid infrastructure by running <gridSetup.sh>, the following error occurs in SSH connectivity step:

```
[INS-06006] Passwordless SSH connectivity not set up between the following node(s): [<racnode2>]
```

The error can't be ignored so CRS installation fails.

However, SSH setup shows successful and ssh <node> date command works fine for all nodes, CVU user equivalence check also shows passed status.

Run gridSetup.sh in debug mode:

```
$ gridSetup.sh -debug | tee /tmp/gridsetup.log
```

In the debug trace "/tmp/gridsetup.log", it reports <protocol error: filename does not match request> when calling <scp> command:

```
[Worker 0] [ 2019-05-31 14:40:49.921 CST ] [UnixSystem.remoteCopyFile:848] UnixSystem:
/usr/local/bin/scp -p <racnode2>:'/tmp/GridSetupActions2019-05-31_02-39-
46PM/CVU_19.0.0.0.0_grid/scratch/getFileInfo12906.out' /tmp/GridSetupActions2019-05-31_02-39-
46PM/<racnode2>.getFileInfo12906.out
[Thread-440] [ 2019-05-31 14:40:49.921 CST ] [StreamReader.run:62] In StreamReader.run
[Worker 0] [ 2019-05-31 14:40:49.921 CST ] [RuntimeExec.runCommand:294] runCommand: Waiting for
the process
[Thread-439] [ 2019-05-31 14:40:49.921 CST ] [StreamReader.run:62] In StreamReader.run
[Thread-440] [ 2019-05-31 14:40:50.109 CST ] [StreamReader.run:66] ERROR>protocol error:
filename does not match request
[Worker 0] [ 2019-05-31 14:40:50.109 CST ] [RuntimeExec.runCommand:296] runCommand: process
returns 1
[Worker 0] [ 2019-05-31 14:40:50.109 CST ] [RuntimeExec.runCommand:323] RunTimeExec: error>
[Worker 0] [ 2019-05-31 14:40:50.109 CST ] [RuntimeExec.runCommand:326] protocol error:
filename does not match request
```

CHANGES

OpenSSH is upgraded to 8.x.

CAUSE

OpenSSH is upgraded to 8.x. Please note OpenSSH's behavior might be different on any other platforms/OS, for example on AIX, OpenSSH 7.5 has this problem, and on SLES Linux 12 SP4, OpenSSH_7.2p2 has this problem.

```
# ssh -V
OpenSSH_8.0p1, OpenSSL 1.0.2r 26 Feb 2019
```

The below command might also give the above error on OpenSSH 8.0. please note double quotes contain single quotes in the file name.

```
# scp -p <racnode2>:'/tmp/test.txt' /tmp/test.txt
protocol error: filename does not match request
```

And the error can be avoided by adding "-T" option in the command:

```
# scp -T -p <racnode2>:'/tmp/test.txt' /tmp/test.txt
test.txt 100% 2 0.1KB/s 00:00
```

To mitigate the risk of (CVE-2019-6111), OpenSSH 8.0 adds client-side checking that the filenames sent from the server match the command-line request, if there is a difference between client and server wildcard expansion, the client may refuse files from the server. For this reason, OpenSSH 8.0 provides a new "-T" flag to scp that disables these client-side checks. for details, see <https://www.openssh.com/txt/release-8.0>

SOLUTION

Solution:

Apply **patch 30159782** before run "gridSetup.sh", see (Doc ID 1410202.1) for how to apply OneOff patch before run "gridSetup.sh".

OR use below workaround.

Workaround : (if your unix admin allows it)

Before installation, as **root** user: (please change the path if the location of your "scp" is not the same with below)

```
# Rename the original scp.
mv /usr/bin/scp /usr/bin/scp.orig

# Create a new file </usr/bin/scp>.
vi /usr/bin/scp

# Add the below line to the new created file </usr/bin/scp>.
/usr/bin/scp.orig -T $*

# Change the file permission.
chmod 555 /usr/bin/scp
```

After installation:

```
mv /usr/bin/scp.orig /usr/bin/scp
```

Note: If SCP is a link and not a physical location then the workaround should be done at the physical location not link.

REFERENCES

[NOTE:1410202.1](#) - How to Apply a Grid Infrastructure Patch Before Grid Infrastructure Configuration (before root.sh or

rootupgrade.sh or gridsetup.bat) is Executed

[NOTE:30159782.8](#) - Bug 30159782 - Remote Copy Fails if using openssh-7.2. 7.4, etc.

[NOTE:30189609.8](#) - Bug 30189609 - CVU FAILS TO DETECT THE PASSWORDLESS SSH AS WELL AS TO SETUP
PASSWORDLESS SSH CONNECTIVITY

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