

# Common Issues and Solutions for Oracle 19c Grid Infrastructure Installation

## 1. Check Log Files for Details

- Oracle installation issues often provide valuable clues in the log files. If the installer seems stuck or fails, check the following logs:
  - **Install log:** /u01/app/oraInventory/logs/installActions<date>.log
  - **Grid Infrastructure log:** \$ORACLE\_BASE/cfgtoollogs/
- These logs can provide error messages and help identify the exact issue.

## 2. Check Permissions and Ownership

- Verify that the Oracle Grid Infrastructure installation directories have the correct ownership and permissions.
- For example:

```
bash
```

```
chown -R grid:oinstall /u01/app/19.0.0/grid
chmod -R 775 /u01/app/19.0.0/grid
```

- Make sure the `grid` user has permission to write to the directories where the installation is happening.

## 3. Verify Swap Space and Disk Space

- Ensure that your server has sufficient **swap space** and **disk space**. Oracle can sometimes fail silently if these requirements are not met.
- Check the swap space with:

```
bash
free -m
```

- Check disk space with:

```
bash
df -h
```

## 4. Disable Firewall and SELinux

- Sometimes firewall or SELinux settings can cause issues during installation. Ensure that:
  - **Firewall:** Disable or open the required ports for Oracle.

```
bash
systemctl stop firewalld
systemctl disable firewalld
```

- **SELinux:** Ensure SELinux is set to **permissive** or **disabled**:

```
bash
setenforce 0
```

- Also check `/etc/selinux/config` to ensure the line `SELINUX=permissive` or `SELINUX=disabled`.

## 5. Ensure Required Packages Are Installed

- Even though you've checked the packages, run the following command to double-check that all required packages for Oracle 19c are present:

```
bash
```

```
yum install -y oracle-database-preinstall-19c
```

- Additionally, verify that all dependencies listed in the Oracle documentation for your OS version are installed, especially `libaio`, `binutils`, `gcc`, etc.

## 6. Set Kernel Parameters Correctly

- Kernel parameters play a crucial role in Oracle installation. Check if all required kernel parameters have been set in `/etc/sysctl.conf`. You can reapply them with:

```
bash
```

```
sysctl -p
```

- Example of key parameters:

```
bash
```

```
fs.aio-max-nr = 1048576
fs.file-max = 6815744
kernel.shmall = 2097152
kernel.shmmax = 4398046511104
kernel.shmmni = 4096
kernel.sem = 250 32000 100 128
net.core.rmem_max = 4194304
net.core.wmem_max = 1048576
net.ipv4.ip_local_port_range = 9000 65500
net.ipv4.tcp_rmem = 4096 87380 4194304
net.ipv4.tcp_wmem = 4096 65536 4194304
```

## 7. Check for Conflicting Processes

- Ensure that no other processes or previous Oracle installations are running that could cause conflicts. You can check for running Oracle-related processes with

```
ps -ef | grep oracle
```

- If any exist, kill them before attempting the installation again.

## 8. Re-run the Installer with Debugging Enabled

- If you continue facing issues, you can try running the installer with debug mode enabled to get more detailed output:

```
bash
```

```
./runInstaller -debug
```

- This might give you more granular information about where the installer is getting stuck.

## 9. Use a Response File in Silent Mode

- If the GUI is causing issues, use the **silent mode** with a response file. Make sure that the response file is properly configured, and there are no missing or incorrect parameters.
- For example, you can create a response file (named `grid_install.rsp`) and run:

```
bash

./gridSetup.sh -silent -responseFile /path/to/grid_install.rsp
```

## 10. Check X11 Display for GUI

- If you're stuck in GUI mode, ensure that the X11 forwarding is set up correctly for remote installations.

- For local installation:

```
bash

export DISPLAY=:0.0
```

- For remote installation, use X11 forwarding:

```
bash

ssh -X user@host
```

- If there are X11 issues, silent mode with a response file is a good fallback.

## 11. Run the Prerequisite Check Manually

- Before running the installer again, you can manually run the Oracle prerequisite check to ensure that all requirements are met:

```
bash

./gridSetup.sh -executePrereqs
```

- This will give you a detailed report of any missing configurations or failed checks.