



Installation walk-through - Oracle Grid/RAC 11.2.0.4 on Oracle Linux 7 (Doc ID 1951613.1)

In this Document

[Purpose](#)

[Scope](#)

[Details](#)

[Operating System Installation & Setup - Recommendations](#)

[Yum Repository](#)

[11gR2 preinstall RPM](#)

[Oracle ASMLib](#)

[Oracle Automatic Storage Management Cluster File System \(Oracle ACFS\)](#)

[Disk Naming Consistency](#)

[Multipathing](#)

[SELinux](#)

[Oracle Grid Infrastructure - Installation Notes](#)

[Patch 19404309](#)

[Patch 18370031](#)

[Oracle Database/RAC - Installation Notes](#)

[Patch 19404309](#)

[Patch 19692824](#)

[Installation/Home Cloning](#)

[References](#)

APPLIES TO:

Oracle Database - Enterprise Edition - Version 11.2.0.4 to 11.2.0.4 [Release 11.2]
Oracle Database Cloud Schema Service - Version N/A and later
Oracle Database Exadata Cloud Machine - Version N/A and later
Oracle Cloud Infrastructure - Database Service - Version N/A and later
Oracle Database Backup Service - Version N/A and later
Linux x86-64

PURPOSE

This document aims to provide clarity on the installation/patching processes required while installing Oracle Grid 11.2.0.4.0 and Oracle RAC 11.2.0.4.0 on Oracle Linux 7 by providing details on the steps taken to complete an *example* installation. For general recommendations, refer to [Note 1962100.1](#) "Requirements for Installing Oracle 11.2.0.4 RDBMS on OL7 or RHEL7 64-bit (x86-64)"

SCOPE

This document is intended to complement the official Oracle documentation. If there are any incompatibilities between this document and the official Oracle documentation, they are unintentional, and should be ignored. This document is not meant to be a substitute for official documentation; care should be taken to ensure that all official documentation is reviewed thoroughly.

DETAILS

Operating System Installation & Setup - Recommendations

Yum Repository

Set up public-yum repository and enable the latest AddOns channels, e.g.

```
# cat /etc/yum.repos.d/public-yum-ol7.repo

[ol7_latest]
name=Oracle Linux $releasever Latest ($basearch)
baseurl=http://public-yum.oracle.com/repo/OracleLinux/OL7/latest/$basearch/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-oracle
gpgcheck=1
enabled=1

[ol7_addons]
name=Oracle Linux $releasever Add ons ($basearch)
baseurl=http://public-yum.oracle.com/repo/OracleLinux/OL7/addons/$basearch/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-oracle
gpgcheck=1
enabled=1
```

11gR2 preinstall RPM

Install 11gR2 preinstall rpm. The preinstall rpm installs all dependencies for the Oracle RDBMS server installation, and creates the *oracle* user and the *dba* and *oinstall* groups.

Oracle ASMLib

Download the certified oracleasm lib package from OTN (<http://www.oracle.com/technetwork/server-storage/linux/asmlib/ol7-2352094.html>)

Install oracleasm packages if oracleasm lib is to be used

```
yum install oracleasm-support.x86_64 oracleasm lib-2.0.8-2.el7.x86_64.rpm
```

Oracle Automatic Storage Management Cluster File System (Oracle ACFS)

For details on ACFS support, including required patches, refer to [Note 1369107.1 \(ACFS Support On OS Platforms \(Certification Matrix\)\)](#).

Disk Naming Consistency

For consistent disk naming, install device-mapper-multipath along with associated dependencies (device-mapper-multipath-libs.x86_64)

```
yum install device-mapper-multipath
```

Multipathing

Start multipathd, and verify status e.g.

```
[root@xxxx ~]# systemctl start multipathd  
[root@xxxx ~]# systemctl status multipathd
```

SELinux

Disable, e.g.

```
setenforce 0
```

Oracle Grid Infrastructure - Installation Notes

Patch 19404309

Note: It is presumed that the user has already reviewed the Oracle Grid Infrastructure Installation Guide and associated Release Notes; instructions and/or recommendations from those documents will not be repeated here.

After downloading the Oracle Grid Infrastructure software, and before attempting any installation, download **Patch 19404309** from [My Oracle Support](#), and apply the patch using the instructions in the patch README.

Patch 18370031

Download **Patch 18370031** from [My Oracle Support](#). Then, start an interactive Oracle Grid Infrastructure installation through the Oracle Universal Installer (OUI), but do not execute root.sh on any node until after the application of **Patch 18370031**. When the OUI prompts the user to execute the root.sh scripts*, Patch 18370031 should be applied by following the instructions in Section 2.3, Case 5 - Patching a Software Only GI Home Installation or Before the GI Home Is Configured - of the patch README. **Note:** The README should be reviewed in full, as it contains other requirements (e.g. upgrading OPatch, etc.).

* If executing a software-only installation, the patch should be applied after the installation concludes, but before any configuration is attempted.

Once **Patch 18370031** has been applied, proceed with the remainder of the installation (or configuration).

Oracle Database/RAC - Installation Notes

Note: As the title suggests, this section applies both to installations of Oracle Database and Oracle Real Application Clusters (RAC).

Patch 19404309

Note: It is presumed that the user has already reviewed the Oracle Database, Oracle RAC Installation Guides and associated Release Notes; instructions and/or recommendations from those documents will not be repeated here.

After downloading the Oracle Database/RAC software, and before attempting any installation, download **Patch 19404309** from [My Oracle Support](#), and apply the patch using the instructions in the patch README.

Patch 19692824

During installation of Oracle Database or Oracle RAC on OL7, the following linking error may be encountered:

```
Error in invoking target 'agent nmhs' of makefile '<ORACLE_HOME>/sysman/lib/ins_emagent.mk'. S
```

If this error is encountered, the user should select *Continue*. Then, after the installation has completed, the user must download Patch 19692824 from [My Oracle Support](#) and apply it per the instructions included in the patch README.

Installation/Home Cloning

Note: It may be possible to perform the above steps once, then use Oracle's cloning technology to clone the installation/home. Further details are available in the cloning sections of the relevant *Administration and Deployment* guides:

[Cloning Oracle Clusterware](#)

[Cloning Oracle RAC to Nodes in a New Cluster](#)

[Cloning Oracle Software](#)

REFERENCES

[NOTE:1369107.1](#) - ACFS Support On OS Platforms (Certification Matrix).

[NOTE:1962100.1](#) - Requirements for Installing Oracle 11.2.0.4 RDBMS on OL7 or RHEL7 64-bit (x86-64)

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