

Installation Requirements

This guide provides instructions for installing the ORNMS in Red Hat Enterprise Linux (RHEL)-based, Debian-based operating systems.

Before you begin

The following abbreviations will be used to refer to their respective entry through this documentation.

Table 3: Operating System Requirements

Operating System	
Debian	Debian 9 or higher, Ubuntu 16.04 LTS or higher
RHEL	Red Hat Enterprise Linux 7 or higher, CentOS 7 or higher

Table 4: Hardware Requirements

Minimum Hardware Requirements	
Processor	Intel Dual Core or better
Memory	min 16 GB (Memory must be increased depending up on the number of devices)
Hard Disk	1 TB hard disk

Software Prerequisites

- OpenJDK 8
- PostgreSQL
- TFTP

Installing ORNMS

New Installation of 2.2.x

- 1) Download the latest software in NMS system
- 2) Execute the following command for new installation of ORNMS 2.2
`$ dpkg -i ornms_2.2.0.20210415_amd64.deb`
- 3) Once the installation is completed, go to /opt/ornms/bin folder and execute the following command.
`$/installnconfigure.sh`
- 4) Wait till the installation is completed, which will start the ornms service automatically
- 5) Check the active status of ornms by using the following command.
`systemctl ornms status`
 The status of Active will be shown as active(running) if ORNMS is started properly.
 (Active: active (running) since Fri 2021-05-21 04:02:05 PDT; 24s ago)
- 6) Open browser enter the following address
`http://localhost:8980/ornms` - > replace "localhost" with the IP address of the NMS system, if launching in another system.

Upgrading ORNMS from 2.2 to higher

Repeat the steps from 1 to 6 from installation of 2.2.x section

Upgrading ORNMS from prior to 2.2 version

- 1) Go to /opt/ornms/bin folder and stop the ornms server by executing below command
`./ornms stop`
- 2) Download the latest software in NMS system
- 3) Execute the following command for new installation of ORNMS 2.2
`$ dpkg -i ornms_2.2.0.20210415_amd64.deb`
- 4) Once the installation is completed, go to /opt/ornms/bin folder and execute the following command.
`$./installnconfigure.sh`
- 5) Wait till the installation is completed, which will start the ornms service automatically
- 6) Check the active status of ornms by using the following command.
`systemctl status ornms`
The status of Active will be shown as active(running) if ORNMS is started properly.
(Active: active (running) since Fri 2021-05-21 04:02:05 PDT; 24s ago)
- 7) Open browser enter the following address
`http://localhost:8980/ornms` - > replace "localhost" with the IP address of the NMS system, if launching in another system.

To manually stop the ORNMS server use the following command

- 1) Using service to stop the server
`systemctl stop ornms`
- 2) Using manual command - Go to ORNMS installation folder - /opt/ornms/bin and execute the following command
`./ornms stop`

To manually start the ORNMS server

- 1) Using service to start the server
`systemctl start ornms`
- 2) Using manual command - Go to ORNMS installation folder - /opt/ornms/bin and execute the following command
`./ornms start`

To check the status of ORNMS if it started properly or not

- 1) Using service command
`systemctl status ornms`
The status of Active will be shown as active(running) if ORNMS is started properly.
(Active: active (running) since Fri 2021-05-21 04:02:05 PDT; 24s ago)

2) Using manual command - Go to ORNMS installation folder - /opt/ornms/bin and execute the following command

./ornms status

3) The text "ornms is running" will be shown on console if NMS is running properly.

Troubleshooting/Debugging ORNMS if the server is not started

Once the installation is complete and "installInconfigure.sh" command is executed, and NMS is not started properly follow the below steps:

- Check Java

1) Check the version of java installed

- ***java -version***

The output should contain the following text

"openjdk version "1.8.0_292"

2) If the above step output is not showing JDK in the text. run the following command from ORNMS installation folder - /opt/ornms/bin

- ***./runjava -s***

Check for the following output

"runjava: found an appropriate JRE"

- Check Postgres

Check if Postgres is installed

1) Enter the following command to switch to postgres user

\$ su - postgres

2) Enter the following command to check the postgres version

\$ psql -version

Check if postgres version is supported by ORNMS (9.5 to 11)

3) Check postgres service active state

\$ systemctl status postgresql

Output should contain the active state as below

Active: active (exited) since Tue 2021-05-04 21:31:53 PDT; 2 weeks 2 days ago

4) If Postgres is not running start the postgres using the following command

\$ systemctl start postgresql

- Check ORNMS

1) Go to ORNMS installation folder (/opt/ornms/bin) and execute the following command

./install -dis

If the output shows the following text "Upgrade completed successfully!"

2) Start the ornms service

\$ systemctl start ornms

or from the ORNMS installation folder (/opt/ornms/bin)

- % ./ornms start**
- 3) Check the ornms running status
- \$./ornms status**

Supported Browsers

ORNMS supports the following browsers:

Table 5: Supported Browsers

Browsers	Versions
Chrome	Version 90.0.4430.93
Firefox	Version 88.0.1

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