



Xinnor xiRAID 4.0.1 Installation Guide

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Xinnor xiRAID 4.0.1 Installation Guide

Information on installing Xinnor xiRAID 4.0.1 on a supported operating system.

Overview

This document describes instructions on installation of the Xinnor xiRAID 4.0.1 software.

You can install your Xinnor xiRAID 4.0.1 using the “xiraid-repo” repository. For details, see the chapter “Installing Xinnor xiRAID 4.0.1” for your system.

Most of the commands presented in this document are run only with superuser privileges. Please log in as an administrator or root to run these.

Installing Xinnor xiRAID 4.0.1

During the installation process, additional packages required by Xinnor xiRAID 4.0.1 are automatically installed on your system (see the list of additional packages in the document Xinnor xiRAID 4.0.1 System Requirements). To install additional packages correctly, make sure that the appropriate repositories are configured for them.

New Version Lock plugin will be installed along with the other xiRAID packages. Once the installation is finished, this plugin will lock the current version of the packages, preventing it from being automatically updated on general system update commands (apt/yum update). You can disable the Version Lock using the commands listed in Xinnor xiRAID 4.0.1 Administrator's Guide to update your Xinnor xiRAID to a new available version. The instructions on how to do that safely will be available at xinnor.io. We recommend setting up email notifications to receive information about the latest Xinnor xiRAID releases. Detailed instructions on how to do this are listed in the Xinnor xiRAID Administrator's Guide. The notifications will be sent to you once every three days. The corresponding messages will be added to journalctl logs regardless of your notifications settings

To install Xinnor xiRAID 4.0.1 with DKMS, your OS must have one of the packages with the headers of your current Linux kernel version:

- kernel-devel (for RHEL and RHEL-based systems)
- kernel-uek-devel (for Oracle Linux)
- linux-headers (for Ubuntu and Debian)

Note that some OS distributions do not have such pre-installed package (and some repositories may not have package versions for out-of-date kernel versions). In this case, you need to install the package yourself by specifying the repository containing the headers package for your kernel version.

Example commands to install header packages:

- The package kernel-devel on RHEL or RHEL-based OS (CentOS, Rocky, Alma etc.):

```
# yum install kernel-devel-$(uname -r)
```

- The package kernel-uek-devel on Oracle Linux:

```
# yum install kernel-uek-devel-$(uname -r)
```

- The package linux-headers on Ubuntu and Debian:

```
# apt install linux-headers-$(uname -r)
```

RHEL-Based Systems

Information in this chapter is for the following systems:

- RHEL;
- CentOS;

RHEL

To install Xinnor xiRAID 4.0.1 on an RHEL system:

1. Install EPEL depending on your OS version:

EPEL (Extra Packages for Enterprise Linux) is a repository containing additional software packages for RHEL distributions.

- RHEL 7.9

```
# subscription-manager repos --enable rhel-*-optional-rpms \  
                                --enable rhel-*-extras-rpms \  
                                --enable rhel-ha-for-rhel-*-server-rpms  
  
# yum install -y  
https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
```

- RHEL 8:

```
# subscription-manager repos --enable  
codeready-builder-for-rhel-8-$(arch)-rpms  
# yum install -y  
https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
```

- RHEL 9:

```
# subscription-manager repos --enable  
codeready-builder-for-rhel-9-$(arch)-rpms  
# yum install -y  
https://dl.fedoraproject.org/pub/epel/epel-release-latest-9.noarch.rpm
```

2. Install xiraid-repo for your OS:

- RHEL 7.9:

```
# yum install  
https://pkg.xinnor.io/repository/Repository/xiraid/el/7/kv  
er-3.10/xiraid-repo-1.0.1-376.kver.3.10.noarch.rpm
```

- RHEL 8:

```
# yum install  
https://pkg.xinnor.io/repository/Repository/xiraid/el/8/kv  
er-4.18/xiraid-repo-1.0.1-376.kver.4.18.noarch.rpm
```

- RHEL 9:

```
# yum install  
https://pkg.xinnor.io/repository/Repository/xiraid/el/9/kv  
er-5.14/xiraid-repo-1.0.1-376.kver.5.14.noarch.rpm
```

3. Install xiraid-release.

This command installs Xinnor xiRAID 4.0.1.

```
# yum install xiraid-release
```

RHEL-Based

To install Xinnor xiRAID 4.0.1 on an RHEL-based system:

1. Install EPEL depending on your OS version:

EPEL (Extra Packages for Enterprise Linux) is a repository containing additional software packages for CentOS distributions.

```
# yum install -y epel-release
```

2. Install xiraid-repo for your OS:

- RHEL 7.9:

```
# yum install  
https://pkg.xinnor.io/repository/Repository/xiraid/el/7/kver-3.10/xiraid-repo-1.0.1-376.kver.3.10.noarch.rpm
```

- RHEL 8:

```
# yum install  
https://pkg.xinnor.io/repository/Repository/xiraid/el/8/kver-4.18/xiraid-repo-1.0.1-376.kver.4.18.noarch.rpm
```

3. Install xiraid-release.

This command installs Xinnor xiRAID 4.0.1.

```
# yum install xiraid-release
```

Oracle Linux UEK

To install Xinnor xiRAID 4.0.1 on an Oracle Linux with UEK:

1. Install xiraid-repo for your OS:

- Oracle 8.4 and Oracle 8.6:

```
# dnf install
https://pkg.xinnor.io/repository/Repository/xiraid/oracle/
8/kver-5.4/xiraid-repo-1.0.1-376.kver.5.4.noarch.rpm
```

- Oracle 9:

```
# dnf install
https://pkg.xinnor.io/repository/Repository/xiraid/oracle/
9/kver-5.15/xiraid-repo-1.0.1-376.kver.5.15.noarch.rpm
```

2. Install xiraid-release.

This command installs Xinnor xiRAID 4.0.1.

```
# dnf install xiraid-release
```

Ubuntu Linux

Information in this chapter is for following systems:

- Ubuntu 20.04 LTS with 5.4 kernel;
- Ubuntu 22.04 LTS with 5.15 kernel;
- Ubuntu 22.10 LTS with 5.19 kernel.

Ubuntu 20.04 LTS

To install Xinnor xiRAID 4.0.1 on an Ubuntu 20.04 LTS:

1. Install xiraid-repo for your OS:

```
$ cd /tmp/
# curl -O
https://pkg.xinnor.io/repository/Repository/xiraid/ubuntu/20.04
/kver-5.4/xiraid-repo_1.0.1-376.kver.5.4_amd64.deb
# apt update && apt
install ./xiraid-repo_1.0.1-376.kver.5.4_amd64.deb
```

2. Install xiraid-release.

These commands install Xinnor xiRAID 4.0.1.

```
# apt update
# apt install xiraid-release
```



If you do not have the postfix package installed on your system, during the installation, you will be prompted to choose its configuration. Select "No configuration".

3. Reboot your system.

Ubuntu 22.04 LTS

To install Xinnor xiRAID 4.0.1 on an Ubuntu 22.04 LTS:

1. Install xiraid-repo for your OS:

```
$ cd /tmp/
# curl -O
https://pkg.xinnor.io/repository/Repository/xiraid/ubuntu/22.04
/kver-5.15/xiraid-repo_1.0.1-376.kver.5.15_amd64.deb
# apt update && apt
install ./xiraid-repo_1.0.1-376.kver.5.15_amd64.deb
```

2. Install xiraid-release.

These commands install Xinnor xiRAID 4.0.1.

```
# apt update
# apt install xiraid-release
```



If you do not have the postfix package installed on your system, during the installation, you will be prompted to choose its configuration. Select "No configuration".

3. Reboot your system.

Ubuntu 22.10 LTS

To install Xinnor xiRAID 4.0.1 on an Ubuntu 22.10 LTS:

1. Install xiraid-repo for your OS:

```
$ cd /tmp/  
# curl -O  
https://pkg.xinnor.io/repository/Repository/xiraid/ubuntu/22.10  
/kver-5.19/xiraid-repo_1.0.1-376.kver.5.19_amd64.deb  
# apt update && apt  
install ./xiraid-repo_1.0.1-376.kver.5.19_amd64.deb
```

2. Install xiraid-release.

These commands install Xinnor xiRAID 4.0.1.

```
# apt update  
# apt install xiraid-release
```



If you do not have the postfix package installed on your system, during the installation, you will be prompted to choose its configuration. Select "No configuration".

3. Reboot your system.

Proxmox 7.2

To install Xinnor xiRAID 4.0.1 on a Proxmox 7.2:

1. Install xiraid-repo for your OS:

```
$ cd /tmp/  
# curl -O  
https://pkg.xinnor.io/repository/Repository/xiraid/proxmox/7.2  
/kver-5.15/xiraid-repo_1.0.1-376.kver.5.15_amd64.deb  
# apt update && apt  
install ./xiraid-repo_1.0.1-376.kver.5.15_amd64.deb
```

2. Install xiraid-release.

These commands install Xinnor xiRAID 4.0.1.

```
# apt update
# apt install xiraid-release
```



If you do not have the postfix package installed on your system, during the installation, you will be prompted to choose its configuration. Select "No configuration".

3. Reboot your system.

Testing the Installation

To ensure that the installation was successful:

1. Check the xiraid module:

```
# lsmod | grep xiraid
```

The command shows if the xiraid module is loaded. Empty output indicates that the installation has not completed successfully.

2. Check the Xinnor xiRAID version:

```
# xicli -v
```

The command shows the version of your Xinnor xiRAID. The version number must be 4.0.1. Otherwise, the installation was not successful.

3. Check the Xinnor xiRAID operability:

```
# xicli raid show
```

The command shows a table with RAIDs. The first time you call the command after the installation, the system prompts you to accept the EULA conditions. If you accept the conditions, the command outputs a list of created RAIDs in the form of a table. After the installation, the table is empty. If the output is not in the form of a table or if there is no output at all, it indicates that the installation was not successful.

After the installation, you can find the installation logs at `/var/log/xraid/`.

If installation was not successful:

- check the kernel version;
- try to reinstall Xinnor xiRAID 4.0.1.

If this does not help, please contact Xinnor Support team at support@xinnor.io.

Uninstalling Xinnor xiRAID 4.0.1

These commands uninstall Xinnor xiRAID 4.0.1:

1. On an RHEL-based system

```
# yum remove xiraid-release && yum autoremove  
# yum remove xiraid-repo
```

2. On an Oracle Linux with UEK

```
# yum remove xiraid-release && yum autoremove  
# yum remove xiraid-repo
```

3. On DEB systems (Ubuntu and Proxmox)

It is best to use the 'aptitude' plugin to correctly remove all of the unused dependencies.

```
# aptitude remove xiraid-release  
# aptitude remove xiraid-repo
```

To remove Xinnor xiRAID using `apt` run:

```
# apt  
  remove xiraid-release xiraid-core xiraid-kmod xiraid-install  
# apt remove xiraid-repo  
# apt autoremove
```