

# **Xinnor xiRAID 4.0.0 User Documentation**

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# Xinnor xiRAID 4.0.0 Installation Guide

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Information on installing Xinnor xiRAID 4.0.0 on a supported operating system.

## Overview

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This document describes instructions on installation of the Xinnor xiRAID 4.0.0 software.

You can install your Xinnor xiRAID 4.0.0 using the “xiraid-repo” repository. For details, see the chapter "Installing Xinnor xiRAID 4.0.0" for your system.

Most of the commands presented in this document are run only with superuser privileges.

## Installing Xinnor xiRAID 4.0.0

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During the installation process, additional packages required for Xinnor xiRAID 4.0.0 are automatically installed on your system (see the list of additional packages in the document Xinnor xiRAID 4.0.0 System Requirements). To install additional packages correctly, make sure that the appropriate repositories are configured for them.

To install Xinnor xiRAID 4.0.0 with DKMS, your OS must have one of the packages with the headers of your current Linux kernel version:

- kernel-devel (for RHEL-based systems)
- kernel-uek-devel (for Oracle Linux)
- linux-headers (for Ubuntu, 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some OS distributions do not have such pre-installed package (and some repositories may not have package versions for out-of-date kernel versions).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 CentOS 8:

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

- The package kernel-uek-devel on Oracle Linux 8.4:

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

- The package linux-headers on Ubuntu 22.04:

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

## RHEL-Based Systems

To install Xinnor xiRAID 4.0.0 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 RHEL distributions.

- RHEL 8:

```
# yum -y install epel-release-latest-8
```

2. Install xiraid-repo for your OS:

- RHEL 8:

```
# yum install https://pkg.xinnor.io/repository/Repository/el/8/
kver-4.18/xiraid-repo-1.0.0-151.kver.4.18.noarch.rpm
```

3. Install xiraid-release.

This command installs Xinnor xiRAID 4.0.0.

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

## Oracle Linux UEK

To install Xinnor xiRAID 4.0.0 on an Oracle Linux with UEK:

1. Install xiraid-repo for your OS:

```
# dnf install https://pkg.xinnor.io/repository/Repository/oracle/8.4/
kver-5.4/xiraid-repo-1.0.0-151.kver.5.4.noarch.rpm
```

2. Install xiraid-release.

This command installs Xinnor xiRAID 4.0.0.

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

## Ubuntu Linux

Information in this chapter is for following systems:

- Ubuntu 22.04 LTS with 5.15 kernel.

### Ubuntu 22.04 LTS

To install Xinnor xiRAID 4.0.0 on an Ubuntu 22.04 LTS:

1. Install xiraid-repo for your OS:

```
$ cd /tmp
# curl -O https://pkg.xinnor.io/repository/Repository/ubuntu/22.04/
kver-5.15/xiraid-repo_1.0.0-151.kver.5.15_amd64.deb
# apt update
# apt install ./xiraid-repo_1.0.0-151.kver.5.15_amd64.deb
```

2. Install xiraid-release.

These commands install Xinnor xiRAID 4.0.0.

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



#### Tip:

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. If the output is empty, the installation was not successful.

2. Check the Xinnor xiRAID version:

```
# xicli -v
```

The command shows the version of your Xinnor xiRAID. If the version number is not 4.0.0, 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 a table or there is no output, the installation was not successful.

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

If installation was not successful:

- check the kernel version;
- try to reinstall Xinnor xiRAID 4.0.0.

If this does not help, please contact Xinnor Support team at [support@xinnor.io](mailto:support@xinnor.io).

## Uninstalling Xinnor xiRAID 4.0.0

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These commands uninstall Xinnor xiRAID 4.0.0:

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 an Ubuntu 22.04 LTS

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