



Xinnor xiRAID 4.0.4 System Requirements

Contents

Xinnor xiRAID 4.0.4 System Requirements.....	3
Hardware Requirements.....	3
Software Requirements.....	3

Xinnor xiRAID 4.0.4 System Requirements

Hardware and software requirements of Xinnor xiRAID 4.0.4

Hardware Requirements

Component	Requirements
Processor	x86_64 instruction set. With AVX support (RAID N+M requires AVX2). With AVX2 support.
RAM	Minimum 8 GiB.

Software Requirements

The generic version of Xinnor xiRAID 4.0.4 is compatible with the distributions and cores listed below. Support of other Linux distributions and custom user kernels may be provided on request at support@xinnor.io

For versions of distributions with DKMS, it is possible to use kernels higher than the version specified in the requirements as part of patch versions. For more details, see the chapter “DKMS”.

DKMS

For the xiraid kernel module with DKMS:

- The *xiraid* kernel module uses DKMS (Dynamic Kernel Module Support) technology and is automatically built and is installed for the specified version of the Linux kernel or higher, but only within the patch versions (without kernel API or ABI changes).

The minimal patch version number is shown in bold in the table “Operating system distributions” (column “Minimal Required Kernel”).

- Headers of your current kernel version are required to install the *xiraid* kernel module.
- If you update the kernel, you need headers for the new kernel version.

Do not update the kernel more than a patch update (with kernel API or ABI changes) because the *xiraid* kernel module will not be loaded.

For the xiraid kernel module without DKMS:

The *xiraid* kernel module is installed only for the specified version of the Linux kernel. Do not update the kernel version on builds with *xiraid* without DKMS: the *xiraid* kernel module will not be loaded after updating the system kernel.

Operating System Distributions

Operating System		Kernel		
Name	Version	DKMS	Minimal Required Kernel	Maximal Tested Version at Release Time
RHEL & RHEL-based	7.9	Yes	kernel-3.10.0- 1062 .el7.x86_64	kernel-5.14.0- 362 .8.1.el9_3
	8		kernel-4.18.0- 305 .el7.x86_64	
	9		kernel-5.14.0- 70 .el9_0	
	9.1			
	9.2			
9.3				
Alma Linux	9	Yes	kernel-5.14.0- 162 .6.1.el9_1	kernel-5.14.0- 362 .8.1.el9_3
Rocky Linux	9	Yes		
Oracle Linux (UEK)	8.4	Yes	kernel-uek- 5.4.17- 2102 el8uek	kernel-uek-core- 5.15.0-0.30.19 .el9uek
	8.6		kernel-uek- 5.4.17- 2102 el8uek	

Operating System		Kernel		
Name	Version	DKMS	Minimal Required Kernel	Maximal Tested Version at Release Time
	9		kernel-uek-core- 5.15.0-0 el9uek	
Ubuntu	20.04	Yes	linux-image-5.4.0- 54 -generic	linux-image-5.4.0- 137 -generic
	22.04	Yes	linux-image-5.15.0- 27 -generic	linux-image-5.15.0- 60 -generic
Proxmox	7.2	Yes	kernel-5.15.30-2-pve	pve-headers-5.15.30-2-pve
	7.4			

Program Packages

General List of Program Packages	Additional Packages for Specific Distributions
coreutils dkms gcc make postfix python3 python3-argcomplete python3-grpcio python3-grpcio-tools python3-protobuf python3-pyudev python3-terminaltables nvme-cli sg3-utils smartmontools	<p>For RHEL, CentOS Linux, Alma Linux, Rocky Linux, Oracle Linux (EL): kernel-devel</p> <hr/> <p>For Oracle Linux (UEK): kernel-uek-devel</p> <hr/> <p>For Ubuntu: linux-headers</p> <hr/> <p>For Proxmox: pve-headers</p>

General List of Program Packages	Additional Packages for Specific Distributions
udev ledmon versionlock lsof	