

XINNOR

**xiRAID Classic 4.1.0
System Requirements**

Contents

xiRAID Classic 4.1.0 System Requirements.....	3
Hardware Requirements.....	3
Software Requirements.....	3

xiRAID Classic 4.1.0 System Requirements

Hardware and software requirements of xiRAID Classic 4.1.0

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 xiRAID Classic 4.1.0 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
RHEL	7.9	Yes	kernel-3.10.0-1062.el7.x86_64
RHEL & RHEL-based (Rocky Linux & Alma Linux)	8		kernel-4.18.0-305.el7.x86_64
	9.0		kernel-5.14.0-70.el9_0
	9.1		kernel-5.14.0-162.el9_1
	9.2		kernel-5.14.0-284.el9_2
	9.3		kernel-5.14.0-362.el9_3
9.4	kernel-5.14.0-427.13.1.el9_4		
Oracle Linux (UEK)	8.4	Yes	kernel-uek-5.4.17-2102el8uek
	8.6		kernel-uek-5.4.17-2102el8uek
	9		kernel-uek-core-5.15.0-0el9uek

Operating System		Kernel	
Name	Version	DKMS	Minimal Required Kernel
Ubuntu	20.04	Yes	linux-image-5.4.0-54-generic
	22.04	Yes	linux-image-5.15.0-27-generic
	23.04	Yes	linux-image-6.2.0-34-generic
Proxmox	7.2	Yes	kernel-5.15.30-2-pve
	7.4		kernel-5.15.102-pve
	8		kernel-6.2.16-pve
	8.1		kernel-6.5.11-pve

Program Packages provided with xiRAID Classic 4.1.0

General List of Program Packages	Additional Packages for Specific Distributions
coreutils	For RHEL, Alma Linux, Rocky Linux, Oracle Linux (EL): kernel-devel
dkms	
gcc	
make	For Oracle Linux (UEK): kernel-uek-devel
python3-argcomplete	For Ubuntu: linux-headers
python3-grpcio	
python3-grpcio-tools	
python3-protobuf	For Proxmox: pve-headers
python3-pyudev	
python3-argparse-manpage	
python3-terminaltables	

General List of Program Packages	Additional Packages for Specific Distributions
python3-systemd	
python3-bpfcc	
python-bcc	
nvme-cli	
sg3-utils	
smartmontools	
udev	
ledmon	
versionlock	
lsof	
jq v. >= 1.6	
systemd	

Additional Program Packages

These program packages are not provided with the product and need to be manually installed in order to use the xiRAID Classic in cluster mode:

Program Package	Version
Pacemaker	>= 2.1.6
Csync ²	>= 2.0
jq	>= 1.6