



RAIDIX ERA 4.0.0 SYSTEM REQUIREMENTS

Document version 1.3

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DOCUMENT PURPOSE

This document contains information on hardware and software components compatible with RAIDIX ERA 4.0.0.

HARDWARE REQUIREMENTS

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

SOFTWARE REQUIREMENTS

The generic version of RAIDIX ERA 4.0.0 is compatible with the distributions and cores listed below. Support of other Linux distributions and custom user kernels may be provided on request at request@raidix.com.

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 *eraraid* kernel module with DKMS:

- The *eraraid* 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").

- 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 *eraraid* kernel module will not be loaded.

For the *eraraid* kernel module without DKMS:

The *eraraid* kernel module is installed only for the specified version of the Linux kernel. Do not update the kernel version on builds with *eraraid* without DKMS: the *eraraid* 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 Alma Linux Rocky Linux Oracle Linux (EL)	8.4 and higher (only for 4.18.0 kernel)	Yes	kernel-4.18.0- 305.19.1 .el8_4	kernel-4.18.0-372.9.1.el8_6
Oracle Linux (UEK)	8.4 and higher (only for 5.4.17 kernel)	Yes	kernel-uek-5.4.17- 2036.100.6.1 .el8uek	kernel-uek-5.4.17-2136.306.1.3.el8uek
Ubuntu	18.04.5 LTS	Yes	linux-image-4.15.0- 124 -generic	linux-image-4.15.0-167-generic
	20.04.1 LTS	Yes	linux-image-5.4.0- 54 -generic	linux-image-5.4.0-113-generic
	20.04.1 HWE	Yes	linux-image-5.13.0- 21 -generic	linux-image-5.13.0-44-generic
	22.04 LTS	Yes	linux-image-5.15.0- 27 -generic	linux-image-5.15.0-37-generic
Proxmox	7.0	Yes	pve-kernel-5.11.22- 1 -pve	pve-kernel-5.11.22-7-pve
ALT	8 SP r9	Yes	kernel-image-std-def-5.10. 109 -alt0.c9f.2	kernel-image-std-def-5.10.109-alt0.c9f.2

Program Packages

General List of Program Packages	Additional Packages for Specific Distributions
coreutils	For RHEL, Alma Linux, Rocky Linux, Oracle Linux (EL), CentOS: kernel-devel
dkms	
gcc	
make	
postfix	For OpenSUSE and SLES: kernel-default-devel
python3 (version 3.5 and higher)	
python3-argcomplete	
python3-grpcio	For Oracle Linux (UEK): kernel-uek-devel
python3-grpcio-tools	
python3-protobuf	
python3-pyudev	For Ubuntu and Debian: linux-headers
python3-terminaltables	
nvme-cli	
sg3-utils	For Proxmox: pve-headers
smartmontools	
udev	
ledmon	