

DELL Ubuntu Server 22.04 LTS for PowerEdge Systems User Guide

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Ubuntu Server 22.04 LTS for PowerEdge Systems

Ubuntu Server 22.04 LTS for Dell PowerEdge Systems Release Notes

Current Release Version: Ubuntu Server 22.04 Previous Release Version: Ubuntu Server 20.04

Release Type: Major (MA)

Topics:

- · Revision History
- · Product description
- · New features
- · Changed features
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- Known issues
- Limitations
- Environment and system requirements
- Installation and upgrade considerations
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Revision History

Table 1. Document revision history

Document revision	Date	Description
A00	Nov-22	Initial release

Product description

Canonical Ubuntu 22.04 LTS is the follow-on Operating System (OS) release to the Ubuntu 20.04 LTS operating system. Major enhancements in Ubuntu 22.04 are improvements in security and stability.

New features

The table lists the new and enhanced features of Ubuntu Server 22.04. Table 2. New features in Ubuntu Server 22.04

Functional area	Feature description	Summary of benefits	
Security		●The simplification of the Linux kernel ABI	
	nftables as default backend for the firewall	Improved error reporting	
		More efficient execution	
		Reduction of code duplication	
	Secure shell-RSA is disabled by default in OpenSSH.	Improved security	

Table 2. New features in Ubuntu Server 22.04 (continued)

Functional area	Feature description	Summary of benefits	
	Rust for memory-safe system level progra mming	 High performance while ensuring me mory safety Backwards compatibility and stability Support for concurrent programming 	
	OpenSSL updated to version 3, which includes new cryptographic algorithms	 OpenSSL 3.0 comes with five different providers as standard. Fetching algorithms and property queries Multiple library contexts may exist simultaneously. 	
Kernel	 Latest Kernel 5.15 Major features like in Kernel SMB 3 server Data access monitor cgroup support for SCHED_IDLE Device mapper IMA-based remote attestation Support for asymmetric scheduling affinity 	Contains various new device drivers, fixes, and optimizations	
Container	Long time supported docker images on Ub untu receive new long-term supported 22. 04-based tracks	Ubuntu 22.04 provides long-term benefit for containers.	

Changed features

The table lists the changed features of Ubuntu Server 22.04. Table 3. Changed features in Ubuntu Server 22.04

Functional area	Feature description	Summary of benefits	
Toolchain upgrade	GCC was updated to the 11.2.0 release, binutils to 2.38, and glibc to 2.35. Python 3.10.4 Perl version 5.34.0, OpenJDK 11, and OpenJDK 18.	Use of the latest toolchain.	
Network File Syst em	User datagram protocol (UDP) is disable d for Network File System mounts.	Helps to improve secure and lossless data tran sfer	
High availability a nd clustering	Corosync is updated to version 3.16. Pac emaker is updated to version 2.1.2. Fenc e agents are updated to version 4.7.1.	Ubuntu provides the latest high availability and clustering packages.	
Containers runtim e	Container is updated to version 1.5.9. Ru nc is updated to version 1.1.0.	 Non-https container image pull Apparmor support for arm65 and seccomp Support for clone3 Container Runtime Interface (CRI) image lab eling 	
Virtualization	qemu updated to version v6.2.0	 fuse3 based nonroot way to export image file s 14 Jack support for low latency audio Massively improved reduced instruction set s ystem five (RISC-V) support. Many fixes for the emulation of advanced mi cro devices (AMD) virtualization extensions More devices for the microvm build (virtio- g pu, vhost-user-gpu, virtio-input-host, and vhost _user_input) 	

Table 3. Changed features in Ubuntu Server 22.04 (continued)

Functional area	Feature description	Summary of benefits
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	 Allows to remove the additional drivers of qemu-block-extra Most common qemu features are now separate modules. Improved storage key emulation s390x
libvirt updated to version v8.0.0	 Support hotplug and hot unplug for virtiof s. Introduced virtio-mem memory model qemu: Support librbd encryption qemu: Add new API to inject a launch se cret in a domain. Enhanced swtpm integration
virt-manager updated to 4.0.0	 Shared memory configuration in the user interface virtiofs file system driver user interface o ption Enable a trusted platform module (TPM) by default when UEFI is used. Use cpu host-passthrough by default on qemu x86. Use virtio-gpu video for most modern dis tros.

dpdk	Contains various new device drivers, fixes, and optimizations
openvswitch	 Various features that ease the use of a user space datapath Performance improvements for the Open vSwitch database management protocol (OVS DB) and clustered OVSDB which is heavily used in open virtual network (OVN) deployments. Brings compatibility with the data planed evelopment kit (DPDK 21.11)

Resolved issues

The table lists the resolved issues in Ubuntu Server 22.04. Table 4. Resolved issues in Ubuntu Server 22.04

Issue ID	Functional ar ea	Description	Workaround/Resolution
235936	When externa I monitor is connected, vide o goes blank during the installation of Ubuntu 22.04.	When external monitor is connected using VGA, vid eo goes blank during the installation of Ubuntu 22.0 4. The VGA screen is blank, or displays out of rang e message. The PLLs are not configured properly.	The issue is not observed w hen using iDRAC virtual con sole. The issue is resolved in Ubuntu 22.04.1.

Known issues

The table lists the known issues in Ubuntu Server 22.04: Table 5. Common issues in Ubuntu Server 22.04

Issue ID	Functional area	Description	Workaround
238939	A message cloud-ini t failed to complet e after 10 minutes o f waiting is displayed when Ubu ntu 22.04 is installe d through iDRAC vir tual media option.	On Dell PowerEdge systems, when installin g Ubuntu 22.04 using iDRAC virtual media option, installation process stops and displays a message cloud-init failed to complete after 10 minutes of waiting.	 Installation can be c ompleted by clicking the Close option. The issue could be avoided by installing OS by attaching the OS image using the iDRAC Remote File Share option in Virtua I Media section.
236474	In Ubuntu 22.04, au to tab functionality d oes not work as exp ected for nvme-cli ut ility.	Issue in bash-completion script of nvme-cli package. On Dell PowerEdge systems with Ubuntu 2 2.04, the auto tab completion for the nvme command does not work as expected. If the tab is entered after nvme, it gets overwritte n by the command prompt instead of listing the subcommands. The functionality of nvme command is not impacted, and the subcommands could be entered manually.	The issue could be worke d around by typing the command line manually.
247411	Ubuntu 22.04 server suspends aut omatically when the system is in idle stat e.	After a period of inactivity, Ubuntu server e nters the suspend mode if the automatic su spend option under power settings is set O n. This may result in undesired side effects such as blank screen or a system crash.	Change the power setting s: Go to Settings > Power > Power-Saving Options. Select Off from the Automatic Suspend option and Set Screen Blank option to Never.

Limitations

Installing a GUI on servers is not supported by Ubuntu Server. For more information, see

- ServerGUI
- Desktop or GUI environment on a server
- Dell PowerEdge RAID Controller S150 is not supported on Ubuntu 22.04 LTS. For more information, see Jammy JellyRelease Notes.

Environment and system requirements

Ubuntu Server Edition provides a common, minimalist base for various system applications, such as file or print services, web hosting, and email hosting. This version supports four 64-bit architectures:

• amd64 (Intel or AMD 64-bit)

- arm64 (64-bit ARM)
- ppc64el (POWER8 and POWER9)
- s390x (IBM Z and LinuxONE)

The recommended system requirements are:

CPU: 1 GHz or betterRAM: 1 GB or more

· Disk: Minimum of 2.5 GB

Installation and upgrade considerations

For detailed information about the installation or upgrade instructions, see the Ubuntu Installation Guide available at https://ubuntu.com/server/docs/installation.

Where to get help

The Dell Technologies Support site (https://www.dell.com/support) contains important information about products and services including drivers, installation packages, product documentation, knowledge base articles, and advisories.

A valid support contract and account might be required to access all the available information about a specific Dell Technologies product or service.

Notes, cautions, and warnings

NOTE: A NOTE indicates important information that helps you make better use of your product.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Documents / Resources



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