

Operating System Support

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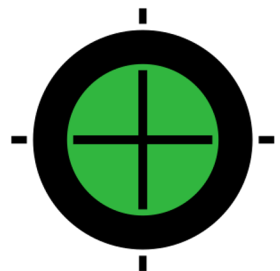
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perfSONAR is developed by a partnership of



ESnet





Debian-Derived Linux

Debian and Ubuntu Support in 4.4

Distributions

- Debian 9
- Debian 10*
- Ubuntu 16
- Ubuntu 18

* Tools and testpoint only

Architectures

- amd64
- i386
- arm64
- armel
- armhf
- ppc64el

Debian and Ubuntu Support in 5.0

Distributions

- . Debian 10
- . Ubuntu 18
- . Ubuntu 20

Architectures

- . amd64
- . arm64
- . armhf
- . ppc64el

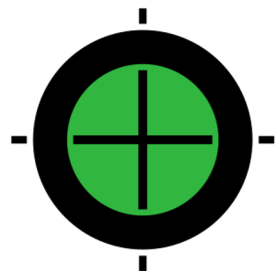
Additions Following 5.0

Distributions

- . Debian 11
- . Ubuntu 22

Architectures

- . amd64
- . arm64
- . armhf
- . ppc64el



Red Hat-Derived Linux

It's the End of CentOS as We Know It

- Red Hat dropped all support for CentOS 8 at the end of 2021. (Original date was 2029.)
- Replacement is CentOS Stream
 - Semi-rolling releases
 - Downstream of Fedora
 - Upstream of Enterprise Linux

The Red Hat-Derived Landscape

- Existing Distributions

• Fedora		Long GA	Corporate – Red Hat
• RH Enterprise Linux	Stable Base	Long GA	Corporate – Red Hat
• CentOS	Stable Base	Long GA	Corporate – Red Hat
• Oracle Linux	Stable Base	Long GA	Corporate – Oracle

- New Distributions

• CentOS Stream		GA 2021-01	Corporate – Red Hat
• Alma Linux	Stable Base	GA 2021-03	Sponsored Foundation
• Rocky Linux	Stable Base	GA 2021-06	Sponsored Foundation

And Now, A Word from Our Sponsors

Alma

- Amazon Web Services
- ARM
- Chef
- CloudLinux
- cPanel
- Equinix
- Hivelocity
- Mattermost
- Open Source Lab
- Plesk

Rocky

- 45 Drives
- Amazon Web Services
- Ctrl IQ
- Google Cloud
- Microsoft Azure
- MontaVista
- OpenDrives

**Heavy
Hitters**

Feature Comparison

	Alma	Rocky
Architectures	x86_64, aarch64	x86_64, aarch64
Built-In EPEL	Yes	Yes
Docker Image	Official	Official
Vagrant Box	Official	Official
Mirrors (November 2021)	155	131

The RHEL-Derived Future: Full Support

- **CentOS 7**
 - Until EOL on June 30, 2024
- **Alma Linux 8 (Starting in 5.0)**
 - Currently has everything CentOS 8 did (Minor Differences)
 - Bug-compatible with RHEL 8
 - Initial primary development environment
- **Rocky Linux 8 (With or after 5.0)**
 - Bug-compatible with RHEL 8
 - Runs Alma-built RPMs

The RHEL-Derived Future: Advisory Support

- Distributions: Oracle Linux, Red Hat Enterprise Linux
- If we're advised that it works, we'll mention it. :-)
- Not supported by the project.
 - Community involvement is welcome.
 - Patches that don't break supported distributions will be accepted.

The RHEL-Derived Future: Not Supported

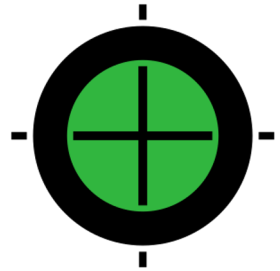
~~CentOS 8~~

- Past end of life.



~~CentOS Stream~~

- May be used internally to accelerate support for new releases.
- Alma 9 is in beta.



Everything Else

Internal Efforts for Better OS Support

- Make Debian/Ubuntu first-class development environments
- Unibuild
 - Does the hard work of building packages for EL- and Debian-derived platforms (and others)
 - Built for pScheduler, being incorporated throughout the project
 - Simplifies our build system considerably.

Test Bed Help Wanted

- Distributions:
 - CentOS 7 Covered
 - Alma 8
 - Rocky 8
 - Debian family on more-exotic architectures
- 2-8 VMs, 4 cores, 4 GiB RAM, 40 GB disk, one public IP each
- Infrastructure to run under Vagrant on bare metal available.
 - EL-centric Switch to Ansible for Debian support
 - VirtualBox Switch to libvirt for wider support