Operating System Support

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Debian-Derived Linux
Debian and Ubuntu Support in 4.4

<table>
<thead>
<tr>
<th>Distributions</th>
<th>Architectures</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Debian 9</td>
<td>• amd64</td>
</tr>
<tr>
<td>• Debian 10*</td>
<td>• i386</td>
</tr>
<tr>
<td>• Ubuntu 16</td>
<td>• arm64</td>
</tr>
<tr>
<td>• Ubuntu 18</td>
<td>• armel</td>
</tr>
<tr>
<td>* Tools and testpoint only</td>
<td>• armhf</td>
</tr>
<tr>
<td></td>
<td>• ppc64el</td>
</tr>
</tbody>
</table>
Debian and Ubuntu Support in 5.0

**Distributions**
- Debian 10
- Ubuntu 18
- Ubuntu 20

**Architectures**
- amd64
- arm64
- armhf
- ppc64el
Additions Following 5.0

<table>
<thead>
<tr>
<th>Distributions</th>
<th>Architectures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Debian 11</td>
<td>amd64</td>
</tr>
<tr>
<td>Ubuntu 22</td>
<td>arm64</td>
</tr>
<tr>
<td></td>
<td>armhf</td>
</tr>
<tr>
<td></td>
<td>ppc64el</td>
</tr>
</tbody>
</table>
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
  - RH Enterprise Linux
  - CentOS
  - Oracle Linux

- **New Distributions**
  - CentOS Stream
  - Alma Linux
  - Rocky Linux
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

<table>
<thead>
<tr>
<th></th>
<th>Alma</th>
<th>Rocky</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectures</td>
<td>x86_64, aarch64</td>
<td>x86_64, aarch64</td>
</tr>
<tr>
<td>Built-In EPEL</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Docker Image</td>
<td>Official</td>
<td>Official</td>
</tr>
<tr>
<td>Vagrant Box</td>
<td>Official</td>
<td>Official</td>
</tr>
<tr>
<td>Mirrors (November 2021)</td>
<td>155</td>
<td>131</td>
</tr>
</tbody>
</table>
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