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Debian 8.0 AKA jessie

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- Debian 8, codename „jessie“
- 2 years after Debian 7, codename „wheezy“ (2013-05-04)
- Release Date: 2015-04-25 [party!]
- 75 supported languages
- 4.841 new source packages
 - <https://lists.debian.org/debian-devel/2015/04/msg00382.html>
 - <https://people.debian.org/~mika/jessie/>
- ~1296 (source) packages have been removed from jessie over wheezy (excl. libs, version renames) [[source](#)]

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debian

- jessie is 2nd release since sarge to have a shorter freeze than 6 months (squeeze was the other)
- Release team has applied about 2100 hints (e.g. unblocks/manual removals) during the jessie freeze
- >21k source packages with >8M source files + >784M source lines of code (see <http://deb.li/sdnjessie>)

Source: @debian twitter account (follow #releasingjessie)

Facts 3/3



- 53 people became official Debian members during the jessie release cycle
- The release, ftp, cd, web + press teams are working on the jessie release right **now** (well, today)
- More on what's going on behind the scenes:
<http://www.jwiltshire.org.uk/content/2015/04/24/what-to-expect-on-jessie-release-day/>

Source: @debian twitter account (follow #releasingjessie)

Kernel, Archs & CO

- Kernel 3.16
- UEFI boot improvements (also 32-bit UEFI firmware with a 64-bit kernel)
- kFreeBSD no longer official port
- New archs: ARM64 + PPC64LE
- Supported archs: amd64, arm64, armel, armhf, i386, mips, mipsel, powerpc, ppc64el, s390x

New Features in Apt (v1.0.9.8)

- apt [install|remove|update|...]
- apt list --upgradable
- <https://mvogt.wordpress.com/2014/04/04/apt-1-0/>
- fancy progress bar:

```
Preparing to unpack ../apt-support-base_0.142-6ubuntu0.14.04.1_0.142-6ubuntu0.14.04.1.deb ...
```

```
Unpacking acpi-support-base (0.142-6) over (0.142-4) ...
```

```
Progress: [ 42%] [#####.....]
```

News from Debian Devs/Teams

- Dpkg:
<https://lists.debian.org/debian-devel-announce/2015/04/msg00007.html>
- Multimedia:
<https://lists.debian.org/debian-devel-announce/2014/10/msg00005.html>

Selection of new tools

- ansible: configuration management, deployment + task execution system
- cross-binutils: for easier cross-compiling programs
- owncloud: cloud storage for files, music, contacts, calendars
- needrestart: check which daemons need to be restarted after library upgrades
- salt: configuration management + remote execution manager

Programming Languages

- Perl: 5.20 (wheezy: 5.14)
- Python: 2.7.9 [+3.4.2] (wheezy: 2.7 [+3.2])
- Ruby: 2.1.5 (wheezy: 1.8 + 1.9)
- GCC: 4.9.2 (wheezy: 4.6/4.7)
- Go: 1.3.3 (wheezy: 1.0.2)
- Clojure: 1.6 [+1.2+1.4] (wheezy: 1.1.0)
- PHP: 5.6.7 (wheezy: 5.4.36)
- New: Nodejs (v0.10.29)
- OpenJDK 7 is new default Java runtime

New debhelper addon packages

- dh-golang
- dh-php5
- dh-python (dh_python was part of debhelper in wheezy)
- dh-rebar (Erlang)
- dh-virtualenv (Python virt envs)

Misc

- MariaDB 10.0.16 next to MySQL 5.5.43 available
- PostgreSQL 9.4
- LibreOffice 4.3.3 (wheezy: 3.5.4)
- Icinga 2.1 [+1.11] (wheezy: 1.7)
- Emacs 24.4 (wheezy: 23.4)
- Vim 7.4 (wheezy: 7.3)

Things to be aware of 1/2

- SysV → systemd
 - systemd new default for fresh installs
 - upgrades from jessie will by default migrate your init system to systemd via systemd-sysv package
 - SysV still available
- Plymouth needed for boot-prompts under systemd boots
- Unsupported crypttab features under systemd
- Packages with systemd unit files don't necessarily consider /etc/default/\$service

Things to be aware of 2/2

- OpenSSH server defaults to "PermitRootLogin without-password"
- Puppetmaster: 2.7 → 3.7 (not backwards compatible)
- Special handling of separate /usr (see release notes)
- Apache 2.4.10 (syntax changes, .conf suffix,...)
 - hint: perl
/usr/share/doc/apache2/migrate-sites.pl

Security related topics

- SSLv3 has been disabled (library level)
- debian-security-support package (emits warning if support for a package needs to be terminated in advance)
- hardened compiler flags: stack protector flag has been switched to stack-protector-strong for extra hardening
- Mediawiki (upstream security support for 1.19.x ends in May 2015, probably in April 2016 for Debian)

Selection of missing packages

- check-mk-agent (general purpose nagios-plugin for retrieving data)
- docker[.io] (Linux container runtime)
- pacemaker (HA cluster resource manager)
- pnp4nagios (Nagios addon to create graphs from performance data)
- snort (Network Intrusion Detection System)

NOTE: maybe there'll be backports

Useful resources

- Release notes:
<https://www.debian.org/releases/jessie/amd64/release-notes/>
- Debian Wiki: <https://wiki.debian.org/>
- Systemd:
 - <http://www.freedesktop.org/wiki/Software/systemd/>
 - <http://0pointer.de/blog/projects/systemd-docs.html>
 - <https://wiki.debian.org/systemd>

Upcoming

- wheezy-lts is planned (please contribute!)
 - <https://wiki.debian.org/LTS>
- Debian 9: codename „stretch“ (ETA: 2017)
- Debian 10: codename “buster”
- (ETA: 2019?)

BTW :)

- Join the Microsoft Openness team to celebrate Debian 8 at LinuxFest Northwest:
 - <http://openness.microsoft.com/blog/2015/04/21/microsoft-debian-8-linuxfest/>

Thanks! Questions?

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Slides available at: <http://michael-prokop.at/slides/>

Thanks for feedback to Carsten Hey + Christian Hofstaedtler