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://people.debian.org/~mika/jessie/
• ~1296 (source) packages have been removed from jessie over wheezy (excl. libs, version renames) [source]
• 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)
• 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, 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:
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://0pointer.de/blog/projects/systemd-docs.html
  - https://wiki.debian.org/systemd
Upcoming

• wheezy-lts is planned (please contribute!)
  – [https://wiki.debian.org/LTS](https://wiki.debian.org/LTS)
• Debian 9: codename „stretch“ (ETA: 2017)
• Debian 10: codename „buster“
• (ETA: 2019?)
Join the Microsoft Openness team to celebrate Debian 8 at LinuxFest Northwest:

Thanks! Questions?

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

Thanks for feedback to Carsten Hey + Christian Hofstaedtler