08-2 Installing Newer Packages

Living on the "Testing" Edge

apt-get install

- apt-get install installs a stable version of software
- · May not be the most current version
- You can see what's available with

bone\$ apt-cache pkgnames | sort > /tmp/list
bone\$ wc /tmp/list

46677 46677 818844 /tmp/list

bone\$ less /tmp/list

0ad-data

2ping

2vcard

3270-common

389-console

3dchess

3depict

Example: git

bone\$ git --version

git version 2.1.4

- This isn't the current version of git
- https://packages.debian.org/stable/ shows current versions
- https://packages.debian.org/jessie/git
- May not be current version, but is well tested

Installing a more recent version

- Debian has different distributions of packages
- Different levels of testing
- Packages start in *Unstable* distribution
- Move to Testing
- Finally move to Stable if it is a significant upgrade
- Currently Jessie (version 8) is stable (on Bone)
- *Stretch* (version 9) is in testing
- What if you need a newer version than what Jessie has?

Backports

- If you don't want to risk a Testing distribution...
- Use backports
- Packages taken from the next release and compiled for the current release

bone\$ cd /etc/apt/sources.list.d

bone\$ echo "deb http://ftp.us.debian.org/debian/ jessie-backports main" > jessie-backports.list

bone\$ echo "deb http://ftp.us.debian.org/debian/ stretch main contrib non-free" > stretch.list

bone \$ echo " deb http://ftp.us.debian.org/debian/ sid main contrib non-free" > sid.list

bone\$ apt update

 $\bullet \ \underline{\text{http://linuxconfig.org/debian-apt-get-wheezy-sources-list}}\\$

*.list

deb url distribution main contrib no re-

- url: http://ftp.us.debian.org/1.oian/
- **distribution**: wheezy, jessie, stretch, sid OR oldstable, stable, testing, unstable
- main: DFSG-compliant packages, which do not rely on software outside this area to operate. These are the only packages considered part of the Debian distribution.
- contrib: DFSG-compliant software, but have dependencies not in main (possibly packaged for Debian in non-free).
- non-free: contains software that does not comply with the DFSG.

https://wiki.debian.org/SourcesList https://www.debian.org/social_contract#guidelines Debian Free Software Guidelines

Installing from other releases

bone\$ git --version
git version 2.1.4

• Install stretch

bone\$ apt install git/stretch
bone\$ git --version
git version 2.9.3

Install Sid

bone\$ apt-get install git/sid
bone\$ git --version
git version 2.10.1

Clean up

- Best not to have unneeded releases in /etc/apt/sources.list.d
- They make apt update take extra time.

bone\$ cd /etc/apt/sources.list.d

bone\$ mkdir hide

bone\$ mv jessie-backports.list hide

bone\$ mv stretch.list sid.list hide

bone\$ apt update