PACKAGE MANAGEMENT

PACKAGE MANAGEMENT SYSTEM

- Packages are used to package software for linux, like an installer
- Some package formats:
 - Ubuntu deb/dpkg
 - Red Hat RPM and YUM
 - Solaris pkgadd
- What is a package management system?
 - Set of tools/utilities to make it easier to install, upgrade, remove and configure software packages.
 - Typically connect to the internet and download packages from remote servers
- Why are some better then others?
 - Package managers that do not recursively get dependencies are more difficult to use.

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- Ubuntu uses APT (Advanced Packaging Tool)
 - Synaptic and aptitude are Front End interfaces
 - Synaptic has GUI
 - aptitude has text based GUI
- APT uses /etc/apt/sources.list to list which servers to download the packages from
 - Can add more servers and more packages
 - Can setup your own repositories (repos) for package distribution
 - Would be useful if maintaining internal software (and even caching/approving updates) in a corporation

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Snippet from /etc/apt/sources.list :

#

deb cdrom:[Ubuntu-Server 9.10 _Karmic Koala_ - Release i386 (20091027.2)]/ karmic main restricted

#deb cdrom:[Ubuntu-Server 9.10 _Karmic Koala_ - Release i386 (20091027.2)]/ karmic main restricted

See http://help.ubuntu.com/community/UpgradeNotes for how to upgrade to

deb http://us.archive.ubuntu.com/ubuntu/ karmic main restricted
deb-src http://us.archive.ubuntu.com/ubuntu/ karmic main restricted

Major bug fix updates produced after the final release of the

deb http://us.archive.ubuntu.com/ubuntu/ karmic-updates main restricted deb-src http://us.archive.ubuntu.com/ubuntu/ karmic-updates main restricted

- Notice, by default CDROM is not part of the package manager sources
 - Why

newer versions of the distribution.

USING APT

- First step, always update your sources:
 - apt-get update
- Second step, apply upgrades
 - apt-get upgrade
- Third step, install what ever you want:
 - apt-get install WHATEVER
- apt-get install openssh-server

FINDING APPS

- Can use apt-cache to help find apps in APT
 - apt-cache search openssh
- Can alternatively use aptitude
 - aptitude
- Or... can google and try to find help
 - Ubuntu has a wonderful community with lots of into on the net!