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Show Name: CompTIA Linux+ (XK0-004)

Topic: Managing Packages and Software

Episode Name: Managing Software with Apt

Description: In this episode, Zach and Don focus on supporting Debian and Ubuntu. Specifically, they demonstrate how to perform system updates and install software from the vendor repositories. They wrap up by showing how to install software from third-party vendors that are not found in the vendor repos.

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## Managing Software with Apt

### [?] Is apt different than apt-get?

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- apt-get
  - Older package manager
  - apt-cache used to maintain package cache
- apt
  - Newer package manager
  - Combines package and cache management in one tool

### [?] Where does the software were installing actually come from?

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- Gets packages from a package repository
- /etc/apt/sources.list

### [?] Can we see the list of software available in the repo?

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- Search package names
  - apt list <name>
- Full regex search
  - apt search <criteria>

### [?] Once we have found our software, how do we install it?

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- apt install
  - Installs a package

### [?] What if the software we want isn't in the repo?

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#### 1. Add the new repo to sources.list

- vi /etc/apt/sources.list
- deb http://download.webmin.com/download/repository sarge contrib

#### 2. Import the signing key

- wget http://www.webmin.com/jcameron-key.asc
- apt-key add jcameron-key.asc

#### 3. Update and install the new software

- apt update
- apt install webmin

### [?] Does apt automatically update software when new versions are released?

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- `apt update`
  - Gets package update information
  - Updates the cache
- `apt upgrade`
  - Upgrades all installed packages
- `apt dist-upgrade`
  - Upgrades operating system packages

**[?] How can we remove software if we no longer need it?**

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- `apt remove`
  - Removes a package