# Installing and Managing Software

### What You Will Learn

- Packages
- Package Managers
- Managing software for RPM based distros
- Managing software for DEB based distros

# Package

- A collection of files
- Data / Metadata
  - Package description
  - Version
  - Dependencies

# Package Manager

- Installs, upgrades, and removes packages
- Manages dependencies
- Keeps track of what is installed

# **Installing Software on RPM Distros**

- RedHat
- CentOS
- Fedora
- Oracle Linux
- Scientific Linux

yum search string

yum info [package]

yum install [-y] package

yum remove package

Search for string

Display info

Install package

Remove package

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#### rpm

```
rpm -qa
List all installed packages.
```

```
rpm -qf /path/to/file
List the file's package.
```

#### rpm

rpm -ql package
List package's files.

rpm -ivh package.rpm
Install package.

#### rpm

rpm -e package
Erase (uninstall) package.

# **Installing Software on DEB Distros**

- Debian
- Linux Mint
- Ubuntu

# **APT - Advanced Packaging Tool**

apt-cache search string Search for string.

```
apt-get install [-y] package Install package.
```

# **APT - Advanced Packaging Tool**

apt-get remove package

Remove package, leaving configuration.

apt-get purge package

Remove package, deleting configuration.

# **APT - Advanced Packaging Tool**

apt-cache show package

Display information about package.

## dpkg

```
dpkg -1
    List installed packages.
```

dpkg -S /path/to/file
 List file's package.

# dpgk

dpkg -L package

List all files in package.

dpkg -i package.deb

Install package.

# **Summary**

- Package
- Package Manager
- RPM
  - o yum
  - o rpm
- DEB
  - apt
  - dpkg