

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

`yum search string`

Search for string

`yum info [package]`

Display info

`yum install [-y] package`

Install package

`yum remove package`

Remove package

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.

Demo - yum

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 -l
```

List installed packages.

```
dpkg -S /path/to/file
```

List file's package.

dpkg

```
dpkg -L package
```

List all files in package.

```
dpkg -i package.deb
```

Install package.

Demo - apt

Summary

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