Linux Academy
Course Notes

RPM-Based Package Management

Contents

rpm

- **Naming convention** • rpm-package-name.versionnumber-buildnumber.architecture.rpm

- Build from CPIO archives

  - To extract the files from an `rpm` package without installing the `rpm`, use the program `rpm2cpio`

  - CPIO program takes the –i flag to extract contents of the archive

    - `rpm2cpio`

    - `cpio -i —make-directories < archivename.cpio`

- Command operations:

  - `-h` • Displays operation progress

  - `--nodeps` • Prevents checking for package dependencies

  - `--test` • Checks the install operation for issues, without installing the package

  - `--prefix path` • Sets path for installation

  - `-a` • Verifies all packages

  - `-i` • Displays package information

  - `-R` • Displays files and packages the package depends on

  - `-l` • Displays contents of package

- Command options:

  - `-i` • Installs package

  - `-U` • Upgrades or installs new package

  - `-F` • Upgrades package if older version exists

  - `-q` • Queries package to see if it is already on system

  - `-e` • Uninstalls package

  - `-b` • Builds package binary

  - `--rebuild` • Rebuilds package

  - `--rebuilddb` • Rebuilds RPM database

- `rpm -qi` • Verifies package is installed

yum

- Commands:

  - **install**

  - **update**

  - **check-update** • Checks to see if updates are available

  - **upgrade**

  - **remove**/**erase**

  - **list** • Displays package information

  - **search**

  - **info** • Verifies package is installed

  - **clean** • Cleans yum cache and removes unneeded install files

  - **resolvedep** • Resolves dependencies

  - **deplist** • Displays dependencies on a package