

COMMAND REFERENCE LIST

Install

```
$ sudo installer -pkg GreatSoftware.pkg -tgt /
```

Options: `-verbose`, `-allowUntrusted`

List Installed Packages

```
$ pkgutil --pkgs
```

List with Regex filter

```
$ pkgutil --pkgs=com.apple.X*
```

Forget an installed package receipt (does not un-install)

```
$ pkgutil --forget identifier
```

Information For Installed Package

```
$ pkgutil --info identifier
```

Convert epoch time to human readable:

```
$ date -r 1455532235
```

List files installed by a package:

```
$ pkgutil --files identifier
```

Determine which package installed a file:

```
$ pkgutil --file-info /path/to/file
```

Inspecting Packages

Expand Package

```
$ pkgutil --expand installer.pkg  
expanded_installer_directory
```

Re-compress expanded package

```
$ pkgutil --flatten expanded_installer_dir  
installer.pkg
```

List files in a package installer file

```
$ pkgutil --payload-files installer.pkg
```

Verify Signature:

```
$ pkgutil --check-signature installer.pkg
```

Bill Of Material (Bom)

Extract Bom:

```
$ pkgutil --bom installer.pkg
```

`lsbom` shows more information than `--payload-files`:

```
$ lsbom $(pkgutil --bom installer.pkg)
```

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Build Package With A Payload

```
$ pkgbuild --root payload --install-location /  
    --identifier id --version 1.0 installer.pkg
```

add `--scripts folder` for scripts and resources

Package An Application:

```
$ pkgbuild --component path/to/GreatApp.app  
    --install-location /Applications GreatApp.pkg
```

Payload-free Package

```
$ pkgbuild --nopayload --identifier id --version 1.0  
    --scripts scripts payloadfree.pkg
```

Signing Packages

add option `--sign "Identity"` to pkgbuild or productbuild

Find a valid identity:

```
$ security find-identity -p basic -v
```

Distribution Packages

List components

```
$ installer -pkginfo -pkg installer.pkg
```

Convert or wrap a component pkg in a Distribution package:

```
$ productbuild --package component.pkg  
    distribution.pkg
```

repeat `--package` for multiple components

Build with Distribution XML file:

```
$ productbuild --distribution distribution.xml  
    installer.pkg
```

LogGen And PkgGen

First snapshot (before installation)

```
$ sudo /usr/local/sbin/logGen snap1.dat
```

Second snapshot (after installation)

```
$ sudo /usr/local/sbin/logGen snap2.dat  
    snap1.dat > changes.txt
```

Capture files to payload folder with pkgGen

```
$ /usr/local/sbin/pkgGen changes.txt payload_dir
```