Build deb package

Tutorials

Create a deb package

- How to create a .deb file (tutorial)
- ?????deb?(Debian Package)?
- How to Create DEB Packages for Debian/Ubuntu
- How to Create a Simple Debian Package
- How to Create a Simple (.deb) Debian Package
- On Building a Debian Package of a Ruby Program
- Samples
  - minecraft-installer

Rebuild a deb package from source

- How To Build Debian Packages From Source

Extract a DEB package

```
dpkg -x coin-manager.22.11.15.deb source


tree --dirsfirst --filelimit 10 --sort=name source/
```

```
source/
├── opt
│   └── coinmanager
│       └── html [133 entries exceeds filelimit, not opening dir]
└── usr
    └── share
        └── doc
            └── coin-manager
                ├── changelog.Debian.gz
                ├── copyright
                └── README.Debian
```

```
7 directories, 3 files
```

For control file

```
dpkg -e coin-manager.22.11.15.deb source/DEBIAN


tree source/DEBIAN
```

```
source/DEBIAN
├── control
└── md5sums

0 directories, 2 files
```

Build a DEB package

```
tree --dirsfirst --filelimit 10 --sort=name coin-manager/
```

```
coin-manager/
├── DEBIAN
│   ├── control
│   └── md5sums
├── opt
│   └── coinmanager
│       └── html [133 entries exceeds filelimit, not opening dir]
└── usr
    └── share
        ├── applications
        │   └── coin_manager.desktop
        ├── doc
        │   └── coin-manager
        │       ├── changelog.Debian.gz
        │       ├── copyright
        │       └── README.Debian
        └── icons
            └── hicolor
                ├── 128x128
                │   └── apps
                │       └── coin-manager.png
```

```
├── 16x16
│   └── apps
├── 22x22
│   └── apps
├── 24x24
│   └── apps
├── 32x32
│   └── apps
│       └── coin-manager.png
├── 48x48
│   └── apps
│       └── coin-manager.png
├── 64x64
│   └── apps
│       └── coin-manager.png
└── scalable
    └── apps
        └── coin-manager.svg

27 directories, 11 files
```

```
cat coin-manager/DEBIAN/control
```

```
Package: coin-manager
Version: 22.11.15build2
Architecture: all
Maintainer: CoinManager Dev <support@cloudcoin.global>
Installed-Size: 52224
Depends: libc6 (>= 2.14), libgcc-s1 (>= 3.0), libgdk-pixbuf2.0-0 (>= 2.22.0), libglib2.0-0 (>= 2.12.0), libgtk-3-0 (>= 3.0.0), libjavascriptcoregtk-4.0-18, libstdc++6 (>= 5.2), libwebkit2gtk-4.0-37 (>= 2.21.1)
Section: contrib/admin
Priority: optional
Homepage: https://cloudcoinconsortium.com
Description: CloudCoin 2.0 manager
 Coini-Manager is the program for managing  CloudCoins 2.0
```

```
cat coin-manager/usr/share/applications/coin_manager.desktop
```

```
[Desktop Entry]
Comment=Coin Manager - CloudCoin 2.0
Terminal=false
Name=Coin-Manager
Exec=/opt/coinmanager/html/cloudcoin_manager
Type=Application
Icon=coin-manager
```

```
dpkg -b coin-manager
# Alternatively
mkdir build
dpkg -b coin-manager build
```

Build Appimage with deb package

Download: https://github.com/AppImageCommunity/pkg2appimage

```
tree
```

```
.
├── coin-manager_22.11.15build3_amd64.deb
├── coin-manager.yml
└── pkg2appimage-1807-x86_64.AppImage

0 directories, 3 files
```

coin-manager.yml

```
app: coin_manager
binpatch: true

ingredients:
  dist: focal
  sources:
    - deb http://free.nchc.org.tw/ubuntu focal main universe
  debs:
    - /home/alang/worktmp/AppImage_App/Using_pkg2appimage/coin-
manager_22.11.15build3_amd64.deb
```

```
script:
  - VERSION="22.11.15build3"
  - cp ./usr/share/applications/coin_manager.desktop .
  - cp ./usr/share/icons/hicolor/256x256/apps/coin-manager.png coin_manager.png
  - sed -i -e 's|Exec=.*|Exec=coin_manager|g' coin_manager.desktop
  - sed -i -e 's|Icon=.*|Icon=coin_manager|g' coin_manager.desktop
  - ( cd usr/bin ; ln -s ../../opt/coinmanager/html/cloudcoin_manager coin_manager )
  - echo $VERSION > ../VERSION
```

- app: ????
- debs: ??? Deb package ??
- VERSION: Appimage ????
- *.desktop: ???? `Categories` ???
- ????? /usr/bin/ ? /bin ?????? *.desktop ? `Exec` ????????

Build Appimage

```
./pkg2appimage-1807-x86_64.AppImage coin-manager.yml


tree --dirsfirst -L 3 --filelimit 10 --sort=name
```

```
.
├── coin_manager
│   ├── coin_manager.AppDir
│   │   ├── opt
│   │   ├── usr
│   │   ├── AppRun
│   │   ├── coin_manager.desktop
│   │   └── coin_manager.png
│   ├── tmp
│   │   ├── archives
│   │   ├── lists
│   │   ├── pkgcache.bin
│   │   └── srcpkgcache.bin
│   ├── cache.txt
│   ├── coin-manager_22.11.15build3_amd64.deb
│   ├── Packages.gz
│   ├── sources.list
│   ├── status
│   ├── teste_123
│   └── VERSION
```

```
├── out
│   └── Coin-Manager-22.11.15build3.glibc2.14-x86_64.AppImage
├── coin-manager_22.11.15build3_amd64.deb
├── coin-manager.yml
└── pkg2appimage-1807-x86_64.AppImage

8 directories, 16 files
```

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