

# Build deb package

## Tutorials

Create a deb package

- [How to create a .deb file \(tutorial\)](#)
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- [How to Create DEB Packages for Debian/Ubuntu](#)
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- Samples
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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/along/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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