



How to Build Redcan as Deliverables

Building Redcan as a Debian package or Docker image.

Overview

Resources and steps to build Redcan as a deliverable.

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Resources

Debian Assets

<https://github.com/L-Francis/Redcan/tree/main/resources/debian-assets>

- “Control” file
- “Postinst” file
- “Tam-hw” binary
- “Redcan.service” file
- “Redcan-uninstaller.sh” script

Docker Assets

<https://github.com/L-Francis/Redcan/tree/main/resources/docker-assets>

- “Dockerfile”
- “Tam-hw” binary

Steps

Please note some commands will require superuser privilege.

Building a Debian Package

1. Create directory structure for a Debian package.

```
mkdir redcan
cd redcan
mkdir DEBIAN
mkdir etc/systemd/system
mkdir usr/bin
```

2. Download all the assets. Reference [Debian Assets](#).
3. Using “redcan” as the working directory, place assets in the following directories.
 - a. “Control” file: **DEBIAN**
 - b. “Postinst” file: **DEBIAN**
 - c. “Tam-hw” binary: **usr/bin**
 - d. “Redcan.service” file: **etc/systemd/system**
 - e. “Redcan-uninstaller.sh” script: **usr/bin**

```
.:
total 12
drwxrwxr-x 2 lfranc lfranc 4096 Dec  6 21:00 DEBIAN
drwxrwxr-x 3 lfranc lfranc 4096 Dec  2 04:51 etc
drwxrwxr-x 3 lfranc lfranc 4096 Dec  2 04:36 usr

./DEBIAN:
total 8
-rw-r--r-- 1 root root 214 Dec  6 21:00 control
-rwxr-xr-x 1 lfranc lfranc 35 Dec  2 05:08 postinst

./etc:
total 4
drwxrwxr-x 3 lfranc lfranc 4096 Dec  2 04:51 systemd

./etc/systemd:
total 4
drwxrwxr-x 2 lfranc lfranc 4096 Dec  6 21:00 system

./etc/systemd/system:
total 4
-rw-r--r-- 1 lfranc lfranc 39 Dec  6 21:00 redcan.service

./usr:
total 4
drwxrwxr-x 2 lfranc lfranc 4096 Dec  3 04:29 bin

./usr/bin:
total 1996
-rwxr--r-- 1 root root 1283 Dec  3 04:29 redcan-uninstall.sh
-rwxrwxr-x 1 lfranc lfranc 2039041 Dec  2 04:36 tam-hw
```

4. Build the package using “redcan” as the input.

```
cd ..
dpkg-deb --build redcan
```

Building a Docker Image

1. Create directory structure for a Docker image.

```
mkdir redcan  
cd redcan
```

2. Download all the assets. Reference [Docker Assets](#).

```
lfranc@francis:~/redcanary/redcan-1.1-docker$ ls -l  
total 1996  
-rw-rw-r-- 1 lfranc lfranc    131 Dec  4 02:46 Dockerfile  
-rwxrwxr-x 1 lfranc lfranc 2039041 Dec  4 02:04 tam-hw
```

3. Build the image, using “**redcan**” as the working directory.

```
sudo docker build --tag redcan:latest .
```