

Catatan Debianisasi H. Aftian

haftian atau H. Aftian, adalah sebuah utilitas untuk membuat Live USB installer BlankOn Linux dengan dukungan UEFI. Berikutini catatan saya mengemas **haftian** menjadi sebuah paket debian.

- Pertama, yang saya lakukan adalah fork repository **haftian** dari akun pak [Mohamad Anwari](#) di **GitHub**.
- Install berbagai perkakas yang diperlukan

```
sudo apt-get install git-core devscripts build-essential fakeroot \
  debhelper gnupg pbuilder dh-make dpkg-dev ubuntu-dev-tools
```

- Clone repository hasil fork tadi ke lokal

```
git clone https://github.com/samsulmaarif/haftian.git haftian
cd haftian
```

- Buat skeleton untuk debianisasi

```
dh_make -i --createorig -c gpl3 -e hay@samsul.web.id -p haftian_1.0 -n
```

- Akan tercipta sebuah direktory baru bernama **debian** yang berisi beberapa file. Hapus beberapa file yang tidak digunakan.

```
rm debian/*.ex
rm debian/*.EX
rm debian/README.Debian
```

- Edit berkas **control**, sesuaikan isinya

```
samsul@studio:~/Dokumen/Projects/git/haftian$ cat debian/control
Source: haftian
Section: admin
Priority: optional
Maintainer: Samsul Ma'arif <hay@samsul.web.id>
Build-Depends: debhelper (>=9)
Standards-Version: 3.9.6
Homepage: https://github.com/samsulmaarif/haftian
```

```
Package: haftian
Architecture: all
Depends: ${misc:Depends}
Description: An utility to create a BlankOn UEFI bootable USB.
  Creating BlankOn Linux USB installer with UEFI support has never
  been easier.
```

```
.
This tool is a bash script primarily created by Mohammad Anwari
a.k.a mdamt a Software Engineer from TNISiber.id and a former
BlankOn Developer.
```

- Selanjutnya berkas **changelog**, isinya

```
samsul@studio:~/Dokumen/Projects/git/haftian$ cat debian/changelog
haftian (1.0-1blankon0) unstable; urgency=medium
```

```
* Initial Release.
```

```
-- Samsul Ma'arif <hay@samsul.web.id> Sun, 07 May 2017 00:03:24 +0700
```

- Berkas **copyright** isinya

```
samsul@studio:~/Dokumen/Projects/git/haftian$ cat debian/copyright
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: haftian
Source: https://github.com/samsulmaarif/haftian
```

```
Files: *
```

```
Copyright: 2016 Mohamad Anwari <mdamt@di.blankon.in>
```

```
          2017 Samsul Ma'arif <hay@samsul.web.id>
```

```
License: GPL-3.0+
```

```
Files: debian/*
```

```
Copyright: 2017 Samsul Ma'arif <hay@samsul.web.id>
```

```
License: GPL-3.0+
```

```
License: GPL-3.0+
```

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You should have received a copy of the GNU General Public License along with this program. If not, see <<https://www.gnu.org/licenses/>>.

On Debian systems, the complete text of the GNU General Public License version 3 can be found in "/usr/share/common-licenses/GPL-3".

- Lalu berkas **rules**, berupa script **Makefile** sebagai berikut

```
samsul@studio:~/Dokumen/Projects/git/haftian$ cat debian/rules
#!/usr/bin/make -f
```

```
data=$(CURDIR)/data.zip
```

```
script=$(CURDIR)/haftian
```

```
readme=$(CURDIR)/README.md
```

```
DEST1=$(CURDIR)/debian/haftian/usr/local/bin/
```

```
DEST2=$(CURDIR)/debian/haftian/usr/local/share/haftian/
DEST3=$(CURDIR)/debian/haftian/usr/local/share/doc/haftian/

build: build-stamp

build-stamp:
    dh_testdir
    touch build-stamp

clean:
    dh_testdir
    dh_testroot
    rm -f build-stamp
    dh_clean

install: build clean $(data) $(script) $(readme)
    dh_testdir
    dh_testroot
    dh_prep
    dh_installdirs

    mkdir -m 755 -p $(DEST1)
    mkdir -m 755 -p $(DEST2)
    mkdir -m 755 -p $(DEST3)

    install -m 666 $(data) $(DEST2)
    install -m 777 $(script) $(DEST1)
    install -m 666 $(readme) $(DEST3)

binary-indep: build install
    dh_testdir
    dh_testroot
    dh_installchangelogs
    dh_installdocs
    dh_installexamples
    dh_installman
    dh_link
    dh_compress
    dh_fixperms
    dh_installdeb
    dh_gencontrol
    dh_md5sums
    dh_builddeb

# Build architecture-dependent files here.
binary-arch: build install
# We have nothing to do by default.
```

```
binary: binary-indep binary-arch  
.PHONY: build clean binary-indep binary-arch binary install
```

- Jalankan juga perintah berikut

```
echo "1.0" > debian/source/format
```

- Sampai di sini, paket sudah dapat dikemas

```
dpkg-buildpackage -rfakeroot
```

- Begini output yang muncul di mesin saya

```
samsul@studio:~/Dokumen/Projects/git/haftian$ dpkg-buildpackage -rfakeroot  
dpkg-buildpackage: source package haftian  
dpkg-buildpackage: source version 1.0-1blankon0  
dpkg-buildpackage: source distribution unstable  
dpkg-buildpackage: source changed by Samsul Ma'arif <hay@samsul.web.id>  
dpkg-buildpackage: host architecture amd64  
 dpkg-source --before-build haftian  
 fakeroot debian/rules clean  
dh_testdir  
dh_testroot  
rm -f build-stamp  
dh_clean  
 dpkg-source -b haftian  
dpkg-source: warning: native package version may not have a revision  
dpkg-source: info: using source format '3.0 (native)'  
dpkg-source: info: building haftian in haftian_1.0-1blankon0.tar.xz  
dpkg-source: info: building haftian in haftian_1.0-1blankon0.dsc  
 debian/rules build  
dh_testdir  
touch build-stamp  
 fakeroot debian/rules binary  
dh_testdir  
dh_testroot  
rm -f build-stamp  
dh_clean  
dh_testdir  
dh_testroot  
dh_prep  
dh_installdirs  
mkdir -m 755 -p  
/home/samsul/Dokumen/Projects/git/haftian/debian/haftian/usr/local/bin/  
mkdir -m 755 -p  
/home/samsul/Dokumen/Projects/git/haftian/debian/haftian/usr/local/share/haftian/  
mkdir -m 755 -p  
/home/samsul/Dokumen/Projects/git/haftian/debian/haftian/usr/local/share/doc/haftian/  
install -m 666 /home/samsul/Dokumen/Projects/git/haftian/data.zip  
/home/samsul/Dokumen/Projects/git/haftian/debian/haftian/usr/local/share/haftian/
```

```
tian/
install -m 777 /home/samsul/Dokumen/Projects/git/haftian/haftian
/home/samsul/Dokumen/Projects/git/haftian/debian/haftian/usr/local/bin/
install -m 666 /home/samsul/Dokumen/Projects/git/haftian/README.md
/home/samsul/Dokumen/Projects/git/haftian/debian/haftian/usr/local/share/doc
/haftian/
dh_testdir
dh_testroot
dh_installchangelogs
dh_installdocs
dh_installexamples
dh_installman
dh_link
dh_compress
dh_fixperms
dh_installdeb
dh_gencontrol
dh_md5sums
dh_builddeb
dpkg-deb: membuat paket 'haftian' di dalam
'../haftian_1.0-1blankon0_all.deb'.
dpkg-genchanges >../haftian_1.0-1blankon0_amd64.changes
dpkg-genchanges: including full source code in upload
dpkg-source --after-build haftian
dpkg-buildpackage: full upload; Debian-native package (full source is
included)
signfile haftian_1.0-1blankon0.dsc
gpg: skipped "Samsul Ma'arif <hay@samsul.web.id>": No secret key
gpg: dpkg-sign.mYKDYAN8/haftian_1.0-1blankon0.dsc: clearsign failed: No
secret key

dpkg-buildpackage: error: failed to sign .dsc and .changes file
```

- Muncul pesan error karena saya tidak membuat tanda tangan digital. Meski demikian, paket debian sudah berhasil dibuat yang hasilnya tersimpan di direktori di atasnya. Seperti terlihat di sini

```
samsul@studio:~/Dokumen/Projects/git/haftian$ ls ../haftian_1.0-1blankon0*
../haftian_1.0-1blankon0_all.deb          ../haftian_1.0-1blankon0_amd64.changes
../haftian_1.0-1blankon0.tar.gz
../haftian_1.0-1blankon0_amd64.build    ../haftian_1.0-1blankon0.dsc
../haftian_1.0-1blankon0.tar.xz
```

- Paket dapat diinstall dengan

```
cd ..
sudo dpkg -i haftian_1.0-1blankon0_all.deb
sudo apt-get install -f
```

Demikian catatan kali ini, semoga bermanfaat.



- Oiya, hasil oprekan ini dapat Anda nikmati di sini :
<https://github.com/samsulmaarif/haftian/releases/tag/v1.0>

Referensi

- <https://github.com/mdamt/haftian>
- <http://dev.blankonlinux.or.id/wiki/Pemaket/MembuatPaketDebian>
- <https://askubuntu.com/questions/279686/how-to-package-a-simple-bash-script>
- <https://askubuntu.com/questions/531083/error-when-modifying-rules-file-in-debian-packaging>
- <https://askubuntu.com/questions/602441/packaging-bash-script-with-dh-make>
- <https://unix.stackexchange.com/questions/210037/making-a-deb-package-where-dh-doesnt-build-the-program>
- <https://askubuntu.com/questions/27715/create-a-deb-package-from-scripts-or-binaries/27731#27731>

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