How to create bare minimum Debian Wheezy rootfs from scratch

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Balau (http://balau82.wordpress.com/author/balau82/):

This procedure creates a root filesystem for an ARM Linux box, and it can be done from a non-ARM Debian-based system such as an x86 Ubuntu desktop.

Originally posted on olimex (http://olimex.wordpress.com/2014/07/21/how-to-create-bare-minimum-debian-wheezy-rootfs-from-scratch):

(http://balau82.files.wordpress.com/2014/07/debian-wheezy-download.jpg)

In this post we will explain how you can create your own Debian rootfs with pre-installed packages of your choice, which to allow tiny Linux images to be created.

All steps below should work on any Debian host (Debian/Ubuntu etc) and are verified with Ubuntu 12.04LTS.

First of all you need to install the support packages on your pc

```
sudo apt-get install qemu-user-static debootstrap binfmt-support
```

Next you need to choose the version of Debian in this case we are building a wheezy image.

```
targetdir=rootfsdistro=wheezy
```

Now we will build first stage of Debian rootfs :

```
mkdir $targetdirsudo debootstrap --arch=armhf --foreign $distro $targe
```

Next copy the qemu-arm-static binary into the right place for the binfmt packages to find it and copy in resolv.conf from the host.

```
sudo cp /usr/bin/qemu-arm-static $targetdir/usr/bin/sudo cp /etc/resol
```

If everything is right we now have a minimal Debian Rootfs

```
sudo chroot $targetdir
```

Inside the…

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