Debian installation and setup guide

# Image and installation

Download the latest testing DVD ISO image from <http://cdimage.debian.org/cdimage/weekly-builds/amd64/iso-dvd/debian-testing-amd64-DVD-1.iso>.

Install VirtualBox from <https://www.virtualbox.org/wiki/Downloads>.

The following resources should be assigned to the virtual machine:

* 6-8 GB RAM
* 80-100 GB HDD
* 2-4 CPUs (one half of available ones)

Insert Debian DVD image into the virtual optical drive and start the virtual machine.

When the DVD boots, select common install.

Select English for language, Europe/Serbia for location, and United States keymap.

Name and domain are up to the user (for example hostname: debian, domain: dev)

Create root password.

Create your user and its password.

Use entire disk (guided partitioning), with all files in one partition.

Don’t scan another DVD.

Use German network mirror ([ftp.de.debian.org](ftp://ftp.de.debian.org)).

No Proxy.

User may participate in package popularity survey, but it’s not mandatory.

Select KDE as graphical environment, without printing, web or SSH server. Proceed.

Install GRUB to the master boot record (/dev/sda).

Finish the installation.

# Basic system configuration

## sudo

Open a console with Alt+F2 “konsole”.

su

usermod –a –G sudo <username>

Log out and log in for this change to take effect.

## aptitude

First, we must fix the /etc/apt/sources.list file.

sudo nano /etc/apt/sources.list

Comment out DVD line. Add contrib and non-free to the “stretch main” lines.

Ctrl+o to save, Ctrl+x to exit editor.

sudo apt-get update

sudo apt-get install aptitude

## VirtualBox dkms

sudo apti tude install virtualbox-guest-dkms

This will also install some basic utilities for compiling.

Restart machine.

## Source version control

sudo aptitude install git subversion cvs mercurial bzr darcs

## Editors

sudo aptitude install emacs vim

## Cross-compilation tools

Binutils:

sudo aptitude install binutils-aarch64-linux-gnu binutils-arm-linux-gnueabi binutils-arm-linux-gnueabihf

Gcc:

sudo aptitude install gcc-arm-linux-gnueabi gcc-arm-linux-gnueabihf

## Ncurses

sudo aptitude install libncurses5-dev

## Miscellaneous

sudo aptitude install bc

# Useful packages