

KNOPPIX (<http://www.knoppix.de/>) is a version of the Linux operating system which runs off a CD-ROM without touching the hard disk of your computer. KNOPPIX has a sophisticated set of hardware detection utilities, and usually works everything out for itself. Because everything is run from the CD though, it is not really practical for daily use—but see *KNOPPIX REDUX for a clever daily use*. It is, however, an excellent way to get a taste for running Linux without having to install any software or upset your existing setup.

This version of KNOPPIX has been remastered by OSS Watch to include requested software especially relevant to UK higher and further education. It has been produced by OSS Watch in conjunction with UKUUG, the UK's Unix and Open Systems Group, <http://www.ukuug.org/>.

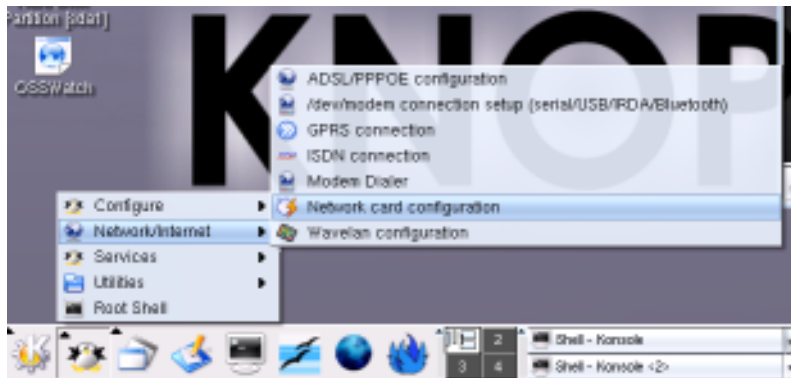
1 How to run KNOPPIX

Put it in the CD drive of your PC, and reboot the computer. That's all! Well, a few caveats:

1. Most recent computers will tend to boot from a CD by default, but on older models you may need to tinker with the BIOS setup to tell your computer to boot from the CD.
2. KNOPPIX does a good job of hardware detection but it is not foolproof. If it fails, the KNOPPIX web site has some things to try.
3. If it can find a DHCP server, the networking is usually set up automatically. Otherwise, select the the squashed penguin menu bottom left:



and use the Network card configuration item:



4. The OSS Watch KNOPPIX will start up assuming you have a UK keyboard. To switch to a US keyboard, click on the tiny UK flag on the bottom right by the clock.



2 Why Remaster Knoppix?

Each distribution of KNOPPIX is packed with useful and fun software. Indeed, the standard KNOPPIX distribution is so full that there is no room to add anything. In order to include additional software on this CD, some things needed to be removed. Alas, most of the games had to be sacrificed.

There are a number of other customized versions of KNOPPIX available often serving very specialized communities. A catalogue is maintained at <http://www.knoppix.net/docs/index.php/KnoppixCustomizations>.

3 The Software

This Knoppix 3.7 distribution includes:

- Mozilla Firefox for web browsing

- Mozilla Thunderbird for email
- The GIMP for picture editing
- Gnumeric and OpenOffice for office work
- Multimedia players for sound, film, etc.
- A variety of tools useful for XML authoring, including extra packages for Emacs, the Roma schema generation service, xsltproc, xmlstarlet, rxp, etc.

If you would like to know precisely what packages are on the CD, there is a full list of software packages removed from the standard KNOPPIX for this distribution <http://www.oss-watch.ac.uk/knoppix/Remove>; a full list of software packages added to the standard KNOPPIX for this distribution <http://www.oss-watch.ac.uk/knoppix/Add>; and a list of software packaged locally <http://www.oss-watch.ac.uk/knoppix/LocalAdd> (see section local).

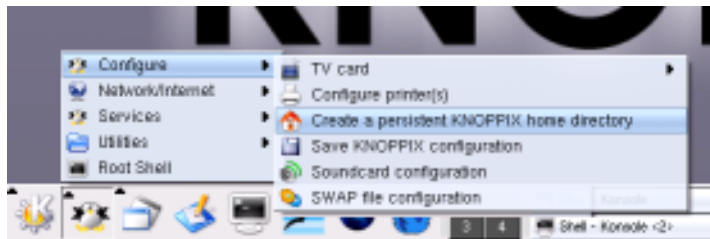
If you have suggestions for software to include in a future release, please let us know.

4 KNOPPIX REDUX

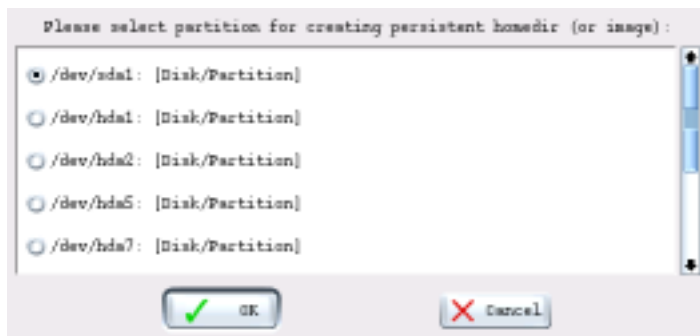
One of the annoyances of KNOPPIX is that all your work is lost when you reboot. You can get round this by storing your home directory (which includes things like configuration files for email, browser bookmarks etc) on a disk somewhere. This could be your local hard disk, a floppy disk, or (probably best) a USB memory device. If you store your configuration for email and such on a USB drive, you could happily travel about carrying your entire computing environment on just a KNOPPIX cd and your USB drive.

Using the USB memory device as the example, first plug it into your computer which has been booted with KNOPPIX. KNOPPIX should spot the new device and give it a name like `/dev/sda1`. Right-click on the icon for this device which has appeared on your desktop. Take the option to mount the drive. Right-click again on the icon and under Actions, change the read/write mode. This is what will permit KNOPPIX to actually write information to a device - *remember, KNOPPIX normally never writes to your computer's hard drive.*

Choose Configure from the menu on the little penguin, the second from left on the bottom panel) and select *create a persistent KNOPPIX home directory*:



You will then be asked to choose a device



In this example, the USB drive shows as `/dev/sda1`, and hard disk partitions as `/dev/hda1` etc. When you have chosen your device, and moved to the next screen, you'll be asked whether the whole device should be used, or whether all the work should be done in a file which KNOPPIX will manage; do not choose the first option unless you want that device wiped clean! Finally, you are asked what size of disk to create—the default suggestion is 30 megabytes, which is plenty for most purposes. Your current setup is then copied to the new location, and you should reboot.

When the KNOPPIX CD boots, it comes up with a command prompt. Do not just press return or wait, but type `knoppix home=scan` and press return. This tells KNOPPIX to look for your home directory on available devices. If your USB device is plugged in, it should be located and used.

Voila! When KNOPPIX comes up, your home directory and settings should be as they were when you last ran the system.

5 Locally packaged software

To make this CD, we made local Debian packages of a number of packages we thought would be useful. You can find these packages separately at <http://tei.oucs.ox.ac.uk/teideb/>, but please be aware that this is for experts only, and that this is *not* an official Debian repository.

6 Copyright and licensing

To the best of our knowledge, the contents of this CD are all redistributeable, most packages (but not all) are conformant with the Debian Free Software Guidelines. If you have concerns, please do not use or redistribute the software until you have checked the licensing conditions.