Puppy 2.14 Manual

1. Introduction

<u>Puppy Linux</u> is a very smart Linux distribution, which was developed by Barry Kauler. Barry Kauler is an Australian professor in (early) retirement. He developed a Windows similar Linux, which contains all the important programs and is nevertheless small enough to run even on older PCs completely in the RAM. Puppy runs on almost all hardware, is very easy to handle and can easily be adapted to personal preferences. Many volunteers constantly extend the software on offer. Puppy has a world-wide community, which communicates around the clock in English over the Internet. <u>Further information about Puppy</u>.

This manual will appeal to Linux beginners and Linux users, who would like to become acquainted with Puppy. There is a variety of information on the Internet, which you can reach from the <u>Puppy-Homepage</u>. This manual summarizes the most important information for Puppy beginners and explains the first steps with Puppy.

How to use the manual:

- Menu entries and buttons are set in "", submenus are separated by vertical lines. Example: "Menu | Shut Down | JWM restart" means, that you first click on the button "Menu", than (at the appearing menu) on the headword "Shut Down" and finally on the headword "JWM restart".
- In the manual the letter x is used as a substitute symbol for a number. For example /dev/hdax means that you have to write /dev/hda1, /dev/hda2 or /dev/hda3 just use what suits your computer.
- With the term "shell" the program "Menu | Run | Rxvt terminal emulator" is meant.
- If you find a mistake please send a message to mail@puppy-linux.info.

2. How to get Puppy

You can get Puppy Linux from <u>ibiblio.org</u> or <u>puptrix.org</u> (you will find more download-links <u>here</u>). Save the current release puppy-2.xx-seamonkey.iso (e.g. puppy-2.10-seamonkey.iso) on your harddrive. The filesize is about 80-90 MB.

To make sure that you downloaded a genuine original file, you can compare the checksum of the ISO file with the associated file puppy-2.xx-seamonkey.iso.md5.txt (e.g. puppy-2.10-seamonkey.iso.md5.txt). Download this file as well.

Within Linux:

Open a shell and change into the directory, in which you stored the two files. Enter the following command:

md5sum puppy-2.10-seamonkey.iso

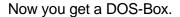
As a result you get the checksum. Open the file puppy-2.10-seamonkey.iso.md5.txt with a text program (e.g. abiword). The two checksums should be identical.

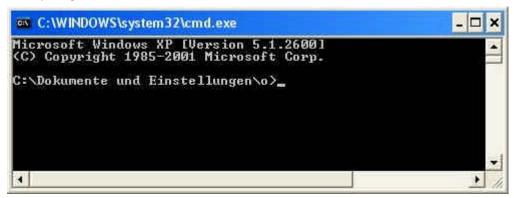
Within Windows:

Download the DOS-Program <u>md5sum.exe</u>. To open a DOS-Box click on "Start | Execute". This opens an input window, into which you enter the following command:

• cmd

| Ausführ | en | ? 🛛 |
|---------|---|-------|
| | Geben Sie den Namen eines Programms, Ordners, Dokuments oder einer Internetressource an. | |
| Öffnen: | cmd | * |
| | OK Abbrechen Durchsur | :hen) |





Change into the directory, in which you stored the two files, e.g. C:/Puppy. Enter these commands:

• C:

- cd \
- cd puppy
- dir *.*

| C:\WINDO | WS\system | 32\cmd.exe | | _ 🗆 🕯 | × |
|---|------------------------|--|--|-------|---|
| | | P [Version] 2001 Micros | | - | • |
| C:\Dokument | te und Ei | instellungen | \o}c: | | - |
| C:\Dokument | e und Ei | instellungen | \o>cd \ | | |
| C:\>cd Pupp | 9y | | | | |
| | er in Lau Lennummer | (fwerk C: is →: DC4C-8086 →Puppy | | | |
| 11.11.2006 11.11.2006 11.11.2006 11.11.2006 11.11.2006 C:\Puppy> | 20:49 20:50 2 Da | <dir> <dir> atei(en) arzeichnis(s)</dir></dir> | 5 puppy-2.10-seamonkey.iso 5 puppy-2.10-seamonkey.iso.md5.txt 10 Bytes e), 8.582.217.728 Bytes frei | | |
| 12-05-5-6 | | | | 2 | |

Now you should see the Puppy-files. Enter the command:

• md5sum -c puppy-2.10-seamonkey.iso.md5.txt

You should get an "OK".

Subsequently you burn the ISO file (in our example puppy-2.10-seamonkey.iso) on CD. To burn an ISO file on CD, consult the manual of your CD-burning software. Beginners sometimes copy the ISO file simply as a data-file on CD, which doesn't work. Usually the CD-burning software has a special menu option for burning an ISO file on CD. You can verify whether you burned the CD correctly by looking at the CD with the file manager (e.g. Windows Explorer). If you see files as "image.gz" or "vmlinuz.gz" everything is OK. If you see the file "puppy-2.10-seamonkey.iso" this is incorrect.

Tip:

Create a second, identical Puppy CD as a backup copy, in case the original CD becomes corrupted.

3. How to run Puppy

A great advantage of Puppy Linux is that Puppy doesn't have to be installed. You can run Puppy directly from the CD, without affecting your operating system. Alternatively you can install Puppy on a harddrive or a USB stick.

3.1 How to run Puppy the very first time

First you must set up the boot sequence in the BIOS. If you do not know how to get into the BIOS-setup, consult the computers manual. Usually you press one of the following keys immediately after switching on the PC: ESC, one of the function keys F1 to F12 or the delete key. At the BIOS-setup you change the boot sequence so that the CD-ROM drive is first and the harddrive is second. Close the BIOS-setup and store the settings.

The PC then usually reboots. Immediately insert the Puppy CD into the CD-ROM drive. If you are too slow your old operating system starts. In this case keep the CD inserted in the CD drive and start the PC again.

Now Puppy should start. During the starting procedure you are requested to enter the keyboard map. Navigate with the cursor keys downward to the entry "us" (us stands for USA). Then strike the return-key. Thereafter a further window (Puppy video Wizard) appears, "Xorg" is already highlighted. Press the return-key. Wait some seconds till the next window (Xorg video Wizard) appears. There you navigate with the cursor keys to your screen (LCD panel = flat screen, CRT = standard monitor) and resolution. Press the space bar, so that an X is set into the parentheses at the beginning of the line. Then strike the return-key. Now another window appears. Navigate with the cursor keys to the resolution and depth of shade (e.g. 1024x768x16 or 1280x1024x24). Then press the tab-key, mark "Test" and press the return-key. In the next window appears. If you can see the window wait 40 seconds. If you cannot see the window press "CTRL+ALT+Backspace". In the next window "Finished" is already marked. Press the return-key. In the next window appears. If you can see the window "Finished" is already marked. Press the return-key. After some seconds the Puppy desktop appears.

Puppy was loaded completely into RAM. Your old operating system is not touched, so that you can look safely at Puppy Linux. Now you can take the CD out of the CD drive.

If you terminate Puppy you are asked whether you want to store the settings (and your personal files) in a file named pup_save.2fs on a harddrive "SAVE TO FILE" or CD-ROM "SAVE TO CD". (you can change between the options with the tab-key). If you do not want to save the settings mark "DO NOT SAVE" and press the return-key.

If you would like to store the settings (and your personal files) you are asked on which harddrive this should happen.

3.2. Boot-Options

When Puppy boots it offers you some boot-options. If you do not enter anything, Puppy is loaded after some seconds into RAM. When starting Puppy automatically looks for a previously stored pup_save.3fs-file. If this file doesn't exist yet, you are asked for the keyboard map and the screen resolution (see chapter 3.1).

With the boot-option

• puppy pfix=ram

you have the option to start Puppy into RAM without your pre-saved-settings and without your personal files even if a pup_save.3fs-file already exists. This boot option is very useful and is used in this manual a few times. The other boot-options are normally not needed.

3.3 How to save the settings and your personal files

So that Puppy can store all settings and your personal data, a file named pup_save.3fs is saved. I recommend a size of 512 MB for this file. This is big enough for further programs and can be backed-up on CD-ROM (note: if you want to backup the file on a USB stick, it must have a storage capacity of 1 GB). Puppy can store the pup_save.3fs-file on a FAT32-filesystem only (note: USB sticks and external harddrives are usually formatted with a FAT32-filesystem, so that they can be used without problems). Windows XP-users normally have a NTFS-filesystem only. There are two options for you to store the pup_save.3fs-file as well:

- Save the file on an external harddrive or USB-stick.
- Make the NTFS partition smaller and create one or more further partition with FAT32filesystem and ext3-filesystem

If you intend to use Puppy durably you should select the second alternative. This alternative has many advantages.

3.3.1 Harddrives, partitions and filesystems

A harddrive can be divided in one or more partitions. If you create several partitions on a harddrive, each partition appears like a harddrive in the operating system. In other words: although you have only one harddrive in your PC, you will see several (virtual) hard-drives with Windows or Linux. Windows designates the harddrives (as well as the floppy disk drive and CD/DVD drive). In Windows they will be identified with letters. Usually A designates the floppy disk drive, C the harddrive (first partition), D the CD-ROM drive, E the harddrive (second partition), F the harddrive (third partition) and so on. Each partition has its own file system, Windows normally uses NTFS (Windows XP) or FAT32 (Win98, Win95).

With Linux the (first) harddrive is adressed as /dev/hda or /dev/sda. If your PC has a second harddrive, it is adressed as /dev/hdb or /dev/sdb. The partitions are sequentially numbered, starting with one. The partitions of your harddrive are adressed as /dev/hda1 (corresponds to the Windows C-partition), /dev/hda2 (corresponds to the Windows E-partition), /dev/hda3 and so on. Linux can work with different file systems such as ext2, ext3 or ReiserFS. These file systems are not readable by Windows. In addition Linux can work with Windows filesystems too. Due to this option a FAT32-Partition is ideal to exchange files between Windows and Linux.

3.3.2 How to create a FAT32-partition

First of all you have to plan your new harddrive partitions. I recommend you add to your exitsting Windows partition at least three further partitions. The following example assumes that you have only one hard drive (Windows-partition C). Your harddrive could be like this:

- First partition: NTFS (Windows XP)
- Second partition: FAT32 (to save your Puppy-file pup_save.2fs)
- Third partition: FAT32 (to exchange files between Windows and Linux)
- optional fourth partition: ext3 (Linux)

The first partition is your Windows-partition with all its programs and data. The second and third partition have a FAT32-filesystem, which can be accessed by Windows and Linux. On

the second partition (recommended size of approx. 1 GB) the pup_save.3fs-file will be stored, the third partition (recommended size of approx. 5 GB) will be used to exchange files between Windows and Puppy. To save many large files with Puppy Linux (e.g. music collection or picture collection) you should create a fourth partition with an ext3-filesystem. This file system can not be read by Windows and is intended for Linux only.

To create the partition you should do this:

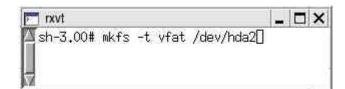
- First of all save your files on a CD-ROM, DVD or an external harddrive. Remember also to save your favorite Internet adresses and your emails. If you have encrypted files, it is advisable to decrypt them and save them too. This protects you from data loss while creating new partitions.
- Now you have to make sure that on your Windows partition all files are stored at the beginning of the harddrive partition. In addition, run the Windows-program Defragger. You find the program in the start-menu "Start | All Programs | Accessories | System | Defragger". Depending upon the size of the partition and the stored files, this procedure can last for a very long time (over one hour). If you have many files, you can accelerate the procedure if you first backup these files (see point 1) and then delete them.

| 💕 Defragmer | ntierung | | | | | |
|---------------|---------------------------|---------------------------|-----------------|----------------------|------------------------|---|
| Datei Aktion | Ansicht ? | | | | | |
| + | B | | | | | |
| Volume | Status | Dateisystem | Kapazität | Freier Speicherplatz | % freier Speicherplatz | |
| (C:) | | NTFS | 19.17 GB | 7.99 GB | 41 % | |
| 🗐 (E:) | | FAT32 | 29.28 GB | 24.59 GB | 83 % | |
| 🔲(G:) | | FAT32 | 16.71 GB | 15.23 GB | 91 % | |
| Geschatzte Da | acenar ager ver wendung v | or der Defragmentierung: | | | | |
| Geschätzte Da | atenträgerverwendung na | ich der Defragmentierung: | _ | | | _ |
| | | | | | | |
| Überprüfen | Defragmentieren | Unterbrechen | nhalteri B | ericht anzeigen | | |
| E Fragmentie | erte Dateien 📕 Zusami | nenhängende Dateien 📘 | Nicht verschieb | bare Dateien 🔲 Fre | ier Speicherplatz | |
| | | | | | | |

- Subsequently, when you start Puppy Linux from CD. Start the program "Menu | Control Panel | Gparted partition manager". Make the NTFS partition smaller and create the new partitions.
- In Puppy Linux you start a shell "Menu | Run | Rxvt terminal emulator" and then you enter the following commands, in order to create the second and third partitions with a FAT32-filesystem:

mkfs -t vfat /dev/hda2

mkfs -t vfat /dev/hda3



• If you want to create a partition with ext3-filesystem for Puppy Linux, then enter the following command:

mkfs -t ext3 /dev/hda4



• Close the shell and remove the Puppy CD out of the CD-ROM drive. Then shut down Puppy Linux without saving.

Next time you start Puppy Linux, you can choose the partition /dev/hda2 to store the pup_save.2fs-file.

4. How to install Puppy

If you don't want to start from CD-ROM each time, you can install Puppy on a harddrive. There are four alternatives:

- Install Puppy on a harddrive
- Install Puppy on a USB-stick
- CD-ROM-image on a harddrive
- Install Puppy on a multisession CD/DVD

I recommend the third alternative (see chapter 4.3).

4.1 How to install Puppy on a harddrive

This chapter is still missing. If you want you can help and write this chapter. Please contact mail@puppy-linux.info_

4.2 How to install Puppy on an USB stick

This chapter is still missing. If you want you can help and write this chapter. Please contact mail@puppy-linux.info

4.3 How to save a Puppy-image on a harddrive and how to boot the image in RAM

This is a fine option for starting Puppy. It combines the advantages of booting from CD-ROM (protection from harming programs) and harddrive (speed). If you want to use this option you have to install a boot-manager (e.g. GRUB) first (see chapter 4.5).

After GRUB is installed, start Windows and insert the Puppy CD into the CD-ROM drive. Copy the files PUP_214.SFS and ZDRV_214.SFS to a partition with FAT32-filesystem (in our example this is the second partition, which probably has the letter E under Windows). If you had already stored the file pup_save.2fs from an earlier use of Puppy and if you would like to use it further, cut and paste this file to the same folder as the file PUP_214.SFS. Subsequently, you create a directory named "boot". Then you copy from the Puppy-CD two files named INITRD.GZ and VMLINUZ to this directory.

The partition should have the following content now:

- E:\ PUP_214.SFS
- E:\ZDRV_214.SFS
- E:\pup_save.2fs (optional)
- E:\boot\ INITRD.GZ
- E:\boot\ VMLINUZ

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| dresse 🖙 E;} | | | 👻 🋃 Wechs | eln |
| ordner × Name = | Größe | Тур | Geändert am | |
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| E B PUP_214.5F5 | 67.876 KB | SFS-Datei | 11.02.2007 00:44 | |
| 🙀 🖉 🖉 🛅 pup_save.2fs | 131.072 KB | 2FS-Datei | 15.02.2007 12:10 | |
| DRV_214.SFS | 17.328 KB | SFS-Datei | 11,02,2007 00:41 | |
| > | | | | |



Now you still have to configure the boot-manager GRUB. Terminate Windows and start Puppy Linux from CD-ROM with the boot-option "puppy pfix=ram".

• Open a shell "Menu | Run | Rxvt terminal emulator" and enter the following comand

mount /dev/hda2 /mnt/hda2

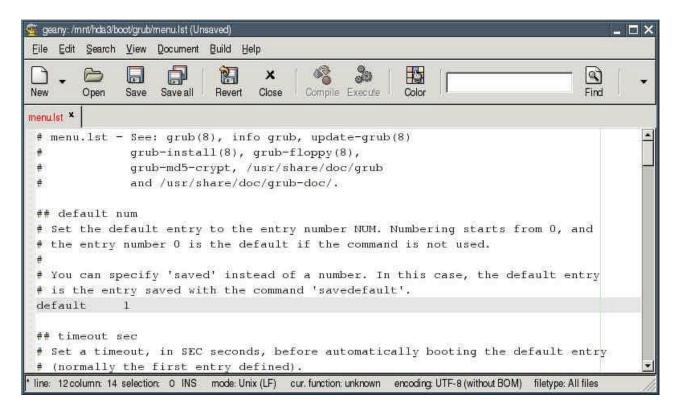


The command assumes that GRUB is installed to the partition /dev/hda2.

- Run the program "Menu | Word Processing | Geany text editor"
- Open the file /mnt/hda2/boot/grub/menu.lst with the text editor.
- In the menu.lst-file change the selection of the operating system (the line begins with the command default):

default 1

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• Add these lines at the end of the menu.lst-file:

```
title = Puppy
rootnoverify (hd0,1)
kernel /boot/vmlinuz root=/dev/ram0 loglevel=3 PMEDIA=idehd
initrd /boot/initrd.gz
```

| 🚋 geany: /mnt/hda3/l | xxxt/grub/menu.lst (Unsaved) | _ 🗆 × |
|--|---|---------|
| Eile Edit Search | View Document Build Help | |
| New - Open | Save Save all Revert Close Compile Execute Color | Find - |
| menulst × | | |
| | IAN AUTOMAGIC KERNELS LIST divider, added to separate the menu items below from the Debian Other operating systems: | |
| title rootnoverif kernel initrd savedefault boot | /boot/vmlinuz root=/dev/ram0 loglevel=3 PMEDIA=idehd /boot/initrd.gz | |
| and the second | y automatically added by the Debian installer for a non-linux OS selection: O INS mode: Unix (LF) cur, function: unknown encoding: UTF-8 (without BOM) filetype: All f | iles // |

- Save the menu.lst-file.
- Close the text editor.

• Close the FAT32-partition with the command

umount /dev/hda2



- Take the Puppy CD out of the CD-ROM drive.
- Shut down Puppy without saving.
- Boot the PC. Now Puppy should start without a CD inserted in the CD-ROM drive.

4.4 How to install Puppy on a multisession-CD / DVD

This chapter is still missing. If you want you can help and write this chapter. Please contact mail@puppy-linux.info

4.5 How to install the boot-manager GRUB

This chapter is still missing. If you want you can help and write this chapter. Please contact mail@puppy-linux.info_

5. How to setup an Internet connection

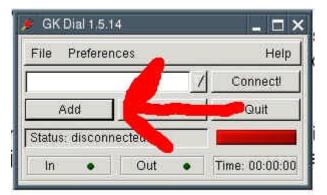
5.1 Modem

The following instruction is from the Puppy-forum and it is not tested by me.

Start off clicking on the connect icon on the desktop. If you have an external serial modem it should have been auto-detected by Puppy. In that case just start "Menu | Network | GKdial modem dialup".

If not you will have to use "Menu | Setup | Modem Wizard". If the modem wizard does not work you most likely have a winmodem. Puppy does support some types of these modems and there are Linux drivers for others. If your modem does not work consider picking up an external serial modem, they are cheep and work great with linux.

In any case when you get a modem set up all you have to do is open "Menu | Network | GKdial modem dialup" and use the add button.



Next, enter the information from your ISP.

| 🌶 Add | × |
|---------------|-----------------|
| Add Conection | 1 |
| Server Name | Phone |
| Username | Password |
| | Connection type |
| | СНАТ |
| Add | Cancel |

Now click Add and then click Connect on the main screen.

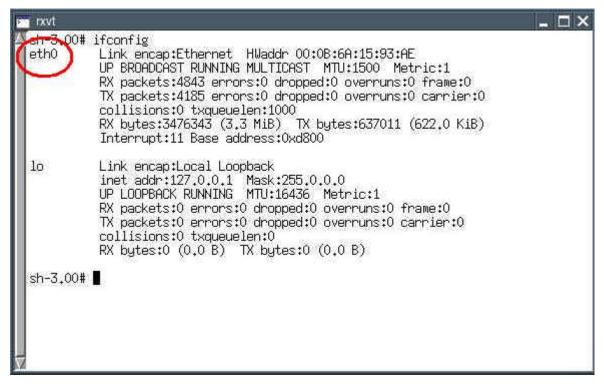
5.2 DSL

First you should check if the ethernet-interface was detected. Start a shell ("Menu | Run | Rxvt terminal emulator") and enter the following command:

ifconfig

| 🛌 rxvt | _ 🗆 × |
|---------------------|-------|
| ∆sh-3.00# ifconfig∎ | |

Can you see "eth0"?



If you can not see "eth0" enter the following command:

• ifconfig eth0 up



To check if the ethernet-interface is available now, enter the following command:

• ifconfig

| rxvt. | _ 🗆 × |
|--------------------|-------|
| ▲sh-3.00# ifconfig | |
| - | |
| r Al | |

Now you should see "eth0". Close the shell.

Start the program "Menu | Network | Roaring Penguin PPPoE ADSL". The program has four registermaps, which will be described below.

Registermap Basic

• Connection Name: freely selectable name, e.g. the name of your Internet-provider

- Username: ask your provider
- Network: leave it empty
- Password: ask your provider

| New Connection - I | AP-PPPoE – 🗖 🗙 |
|------------------------|---------------------|
| Basic NIC and D | NS Options Advanced |
| Connection Name: | MeinProviderName |
| User Name: Network: | Angabe vom Provider |
| Password: | ****** |
| | |
| | |
| | |
| OK Cancel | |

Registermap NIC and DNS

- Ethernet Interface: eth0
- DNS Setup: From Server

| New Connection - F | P-PPPoE | Π× |
|---------------------|---------------------|----|
| Basic NIC and DI | VS Options Advanced | |
| Ethernet Interface: | eth0 | |
| DNS Setup: | From Server | - |
| Primary DNS: | | |
| Secondary DNS: | | |
| | | |
| | | |
| | | |
| | | |
| - | | |
| OK Cancel | | |

Registermap Options

- Allow use by non-root users: mark with a cross
- Use synchronous PPP: mark with a cross
- Firewall: Stand-Alone

| New Conr | ection - RP-PPPoE | _ 🗆 × |
|-----------|--|-------|
| Basic | and DNS | |
| 🔽 Use syn | e by non-root users chronous PPP Stand-Alone | |
| | | |
| OK Cancel | | |

Afterwards press the "OK" button. A new window appears "RP-PPPoE". There are two buttons named "Start" and "Stop".

| | | | | ⊐× |
|------------|----------|------------|----------------|------|
| Connection | i: arcor | - | | |
| Start Stop | Delete | Properties | New Connection | Exit |

With these two buttons you can connect / disconnect the Internet-connection. If you press the button "Start" two green bars should be visible. Now you are online.

| × RI | P-PPPc | ε | | | | | ⊐ × |
|-------|---------|--------|-------|---------|-------|------------|------|
| Conn | ection: | arcor | - | e le la | 3 | 64.0 | |
| Start | Stop | Delete | Prope | rties | New C | Connection | Exit |

You can now open the Internet browser "Menu | Internet | SeaMonkey Webbrowser". Enter a URL and see if the Internet site is displayed.

5.3 Router

This chapter is still missing. If you want you can help and write this chapter. Please contact mail@puppy-linux.info

5.4 WLAN

The following instruction is from the Puppy-forum and it is not tested by me.

Wireless LAN is tricky but if you carefully follow these directions you should be able to get it up and running. First grab the Windows XP drivers for your card. If you do not know what kind of card you have you must find out somehow. Ask someone to help, type in your computer's model number into google (ie. "hp pavilion zd7000 wifi card") or crack open your case and look at the card.

When you get the drivers open "Menu | Run | Rxvt terminal emulator" and change to the folder that has the file that has a .inf extension. The easiest way to do this is to open "Menu | File managers | puppyROX file manager" and browse to the location of the driver. Then right click and in the menu select open "terminal here". Next run "Menu | Setup | Wireless network Wizard" and type the commands it asks you to. Finally select the WAG (wireless access

gadget) button at the bottom. Hit "OK" to the messages as it starts. When WAG starts you should be able to just hit the "DHCP"-button at the bottom. If there are any networks available this will find them. Exit WAG and you should be on the Internet.

5.5 How to setup your email-program

E

Start the program "Menu | Internet | SeaMonkey mail and news". The configuration depends on your email-provider. In the following you will find an example for GMX.

| 🕞 Account Wizard | - 🗆 × |
|---|-------|
| New Account Setup | |
| In order to receive messages, you first need to set up a Mail or Newsgroup account. This Wizard will collect the information necessary to set up a Mail or Newsgroup account. If you do not know the information requested, please contact your System Administrator or Internet Service Provider. Select the type of account you would like to set up: © Email account O Newsgroup account | |
| | |
| < Back Next > Can | cel |

| 😼 Account Wizard | | _ 🗆 × |
|---|---|-------|
| Identity | | |
| | an identity, which is the information that identifies you to receive your messages. | |
| | ou would like to appear in the "From" field of your outgoing ample, "John Smith"). | |
| Your Name: | Vorname Nachname | |
| and the second se | address. This is the address others will use to send email to "user@example.net"). |) |
| <u>E</u> mail Address: | vorname.nachname@gmx.de | li |
| | | |
| | | |
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| | | |
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| | < Back Next > Ca | |

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| 😼 Account Wizard | _ _ × |
|--|--|
| Server Information | |
| Select the type of inc | oming server you are using. |
| ⊙ <u>P</u> OP O <u>I</u> MAP | |
| Enter the name of yo | ur incoming server (for example, "mail.example.net"). |
| Incoming <u>S</u> erver: | pop.gmx.net |
| will make this accour | oox to store mail for this account in its own directory. That It appear as a top-level account. Otherwise, it will be part Global Inbox account. |
| 🗹 Use Global Inbox | (store mail in Local Folders) |
| Enter the name of yo "smtp.example.net"). | ur outgoing server (SMTP) (for example, |
| <u>O</u> utgoing Server: | mail.gmx.net |
| | |
| | |
| | |
| | < Back Next > Cancel |

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| 🕞 Account Wizard 📃 🗔 🕽 |
|---|
| User Names |
| Enter the incoming user name given to you by your email provider (for example, "jsmith"). |
| Incoming User Name: vorname.nachname@gmx.de |
| Enter the outgoing user name given to you by your email provider (this is typically the same as your incoming user name). |
| Outgoing User Name: vorname.nachname@gmx.de |
| |
| |
| |
| |
| |
| |
| < Back Next > Cancel |

| 🙀 Account Wizard | | - 🗆 × |
|-----------------------|--|-------|
| Account Name | | |
| | which you would like to refer to this account (for example, Home Account" or "News Account"). | |
| <u>A</u> ccount Name: | Vorname | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | < <u>B</u> ack <u>N</u> ext > Cano | cel |

| Please verify that the information | below is correct. | |
|------------------------------------|--------------------------------|--|
| Account Name: | Vorname | |
| Email Address: | vorname.nachname@gmx.de | |
| Incoming User Name: | vorname.nachname@gmx.de | |
| Incoming Server Name: | pop.gmx.net | |
| Incoming Server Type: | POP3 | |
| Outgoing User Name: | vorname.nachname@gmx.de | |
| Outgoing Server Name (SMTP): | mail.gmx.net | |
| Download messages now | | |
| Click Finish to save these setting | s and exit the Account Wizard. | |

After you press the button "Finish" the program automatically downloads your emails from your email account. If you are offline, the following error message appears:

| 🍞 Alert | _ 🗆 × |
|--|-------|
| Failed to connect to server pop.gmx.ne | t. |
| <u>•</u> | 414 |
| | |
| ок | |
| | |

Start an Internet-connection (see chapter 5) and click (in the Seamonkey-Mail-Programm) on the button "Get new messages".

http://www.puppy-linux.info

| File | Edit | View | Go | Message | Tools | Window | Help |
|------|------|------|-----|---------|-----------|--------|------|
| 3 | | | 222 | 128 | Marine 11 | S | |

6. How to set up your hardware

6.1 Printer

This is an easy one to get up and running. Just run "Menu | Setup | Printer Wizard" and the directions there should be sufficient to get most printers working. If your printer is not on the list that comes up try one that is similar for example if you have an superjet 23e try the superjet 23 or superjet 23f.

6.2 Scanner

This chapter is still missing. If you want you can help and write this chapter. Please contact mail@puppy-linux.info

6.3 USB sticks / external harddrive

USB sticks and external harddrives are very simple to use. Start the program "Menu | File managers | Pmount mount/unmount drives" and click on the button "Refresh". Then you click on the USB stick symbol and the file manager ROX will automatically open and show you the files on the USB stick. External harddrives with FAT32-filesystem can be used too. If you changed the file system of the external harddrive e.g. to an ext3-filesystem the program Pmount can not mount the external harddrive. In this case you open a shell and enter:

• mount /dev/sdax /mnt/sdax (e.g. for the first partition: mount /dev/sda1 /mnt/sda1)

7. How to (de)install programs

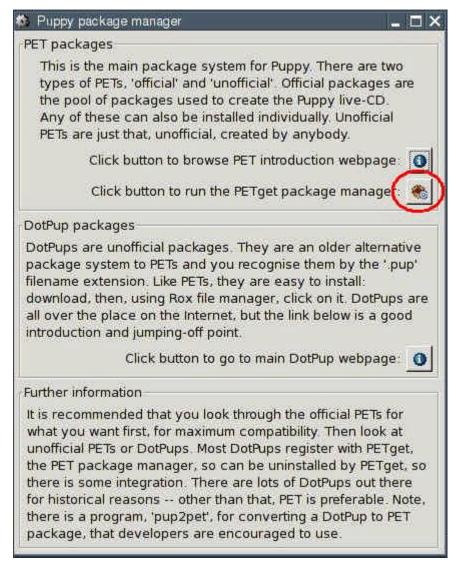
There are different ways of installing programs which are described below. Before an installation it is advisable to backup the pup_save.2fs-file. So you can restore the file, if something goes wrong with the installation.

7.1 How to install official programs

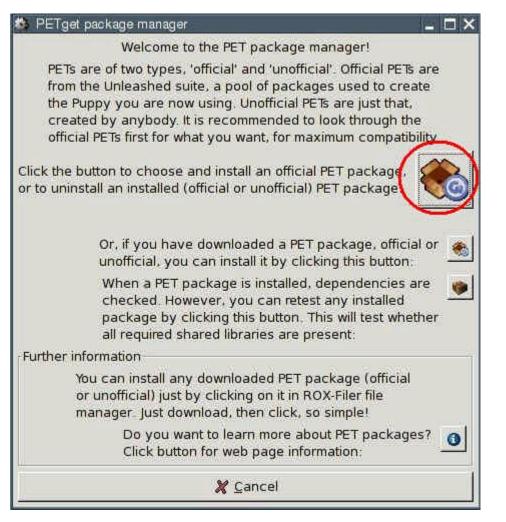
First start an Internet-connection "Menu | Network | Roaring Penguin PPPoE ADSL" (see chapter 5)

| × RI | P-PPPc | ε | | _ | | | ⊐× |
|-------|---------|--------|-------|--------|-------|------------|------|
| Conn | ection: | arcor | | e je s | 3 | 64.0 | |
| Start | Stop | Delete | Prope | ties | New 0 | Connection | Exit |

Then you start the program "Menu | Setup | Puppy package manager". In the window that appears you click on the second button.



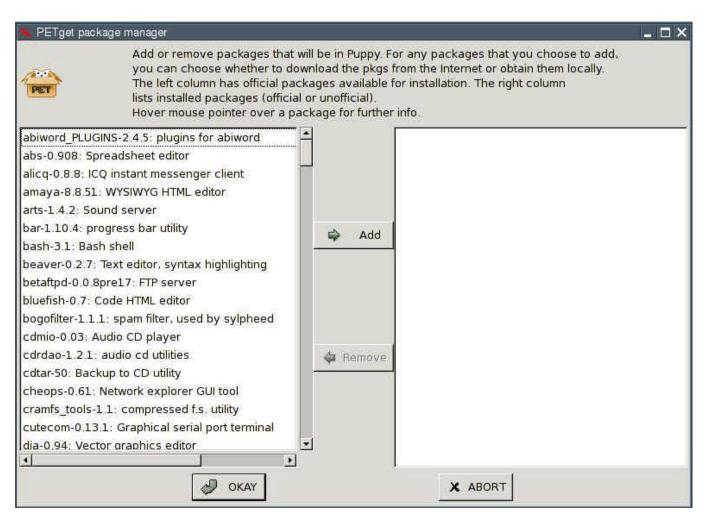
A new window opens.



Click on the first button ("Click the button to choose and install an official PET package..").

A new window appears.





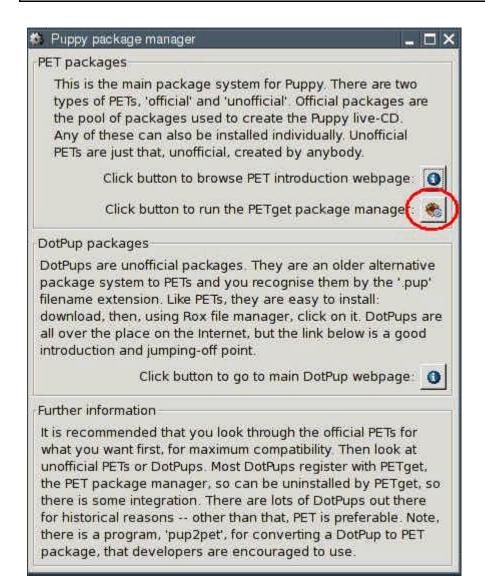
On the left side you can see all available programs. On the right side are the programs already installed (at the beginning this list is empty). Now select in the left list the program which should be installed and click on the button "Add" between the two lists. This transfers the program into the right list. Then you click on the "OKAY" button and the program will be installed.

7.2 How to install further programs

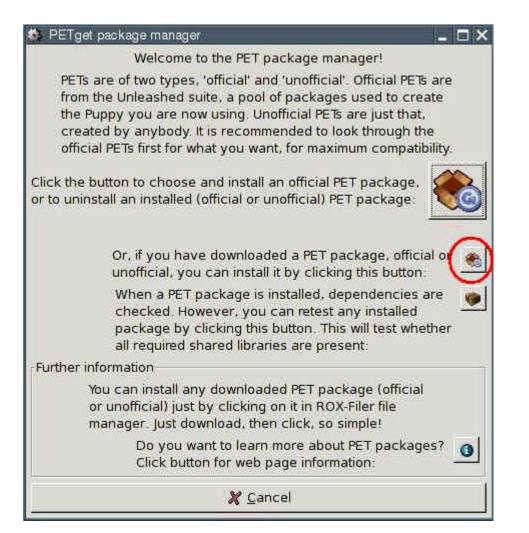
The search for a program, which cannot be installed as an official PETget (see chapter 7.1), should begin in the <u>Puppy-Forum</u>. There is a category called "Additional Software", where you can find many programs to download. The installation is easy using a PETget-program (see chapter 7.2.1) or DotPup-program (see chapter 7.2.2). In addition Debian programs can be installed too (see chapter 7.2.3).

7.2.1 Unofficial PETgets

In addition to the official PETget-programs the Puppy-community offers further PETgetprograms at the <u>Puppy-Forum</u>. Download the PETget-file and then start "Menu | Setup | Puppy package manager".



Click on the second button. A new window opens.



Click on the second button. A new window opens.

| | /root/my-applications | |
|-----------------|---|-----|
| Folders | - Eles | - |
| .1 | audacity.pup | |
| .1 | | 14 |
| bin/ | | |
| lib/ | 2 | |
| | | |
| | - | - |
| Selection: /roo | /my-applications | |
| audacity.pup | | |
| | 1 million and | i l |

Choose the PETget-file and click the OK-button.



7.2.2 DotPups

DotPups are programs for Puppy Linux, made by Puppy users. Download the DotPup-file from the <u>Puppy-Forum</u> (or another Internet site) and click - in the file manager ROX and with the left mouse button - on the file. A window opens:

| 💺 DotPup | _ 🗆 × |
|--|---------------|
| File integrity is OK: wesnoth Unzip the dotpup package? | 1_0,9,0-5,pup |
| Unzip Always Cancel | |

Click on the button "Unzip". Now a warning message appears.

| 👟 DotPup | _ 🗆 × |
|--|---------------------|
| DO NOT RUN THE INST IF YOU ARE NOT SURE Run the Installer? | ALLER IT IS SAFE |
| Run Always Cancel | 1 |

Click on the "Run" button. Now the program will be installed. After the installation you are asked wether you want to delete the file or not.

| 🍬 DotPup | | _ 🗆 × |
|---------------|----------------|-------------|
| Delete the f: | ile wesnoth_0, | 9.0-5.pup ? |
| Yes Always | Never No | |

If you want to keep the DotPup-file you click on the button "No". Otherwise you click on the button "Yes".

7.2.3 Debian-programs

Debian covers an enormous software range with approximately 15,000 programs. The installation of Debian programs in Puppy is for advanced Linux users only, who are familiar with Debian programs and dependency between the programs.

First you install the PupGet program pb_debianinstaller (see chapter 7.1).

Now you can download programs from the <u>Debian Internet site</u>. There are three versions: stable, testing and unstable. If you do not need the newest program-versions, I recommend a

program from <u>stable</u>, because the stable programs were tested intensively and are in principle error free.

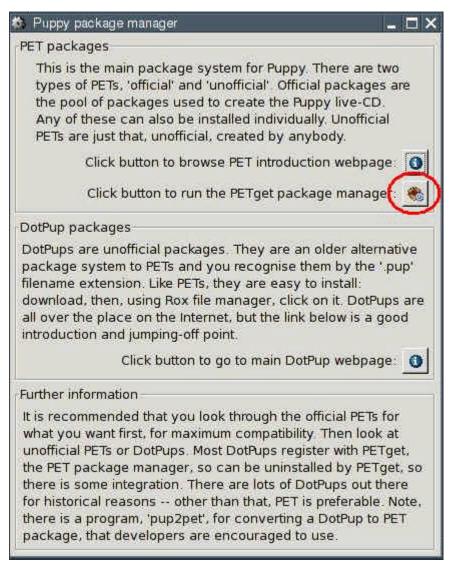
Download the Debian program. Subsequently, you start a shell and enter the following command:

• pb-debianinstaller

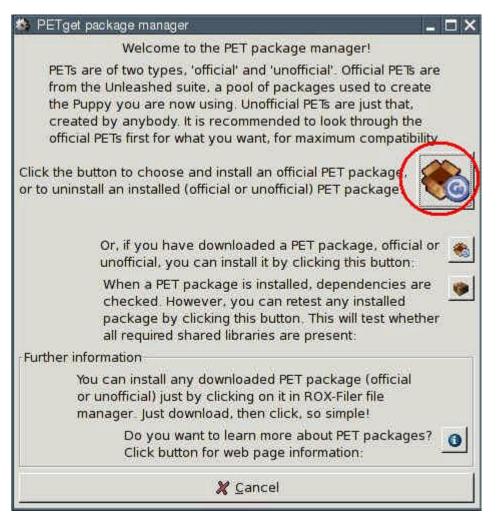
Many Debian programs presuppose that other Debian programs are installed on your PC too. The installer examines whether all necessary programs are installed. If not the installer indicates, which programs are missing. Abort the installation and download the missing programs from the Debian Internet site. Install these programs (they can have further dependencies, so you may have to download still more programs from Debian). At last you can install your program.

7.3 How to deinstall programs

Start the program "Menu | Setup | Puppy package manager".



Click on the second button. A new window opens.



Click on the first button. You get another window:

http://www.puppy-linux.info

| 농 PETget pack | (age manager | | |
|--|--|---|---|
| | you can choose whether The left column has offic lists installed packages (Hover mouse pointer ove | r to download the pkg ial packages available official or unofficial). | For any packages that you choose to add, s from the Internet or obtain them locally. e for installation. The right column er info. |
| fvwm95-2.0.43 gaby-1.0.6pat gaim-2.0.0beta galculator-1.2. glibc_locales-2 glibmm-2.10.3 gnetconfig-0.1 gnome_ppp-0. gparted-0.2.4: gphone-0.5.2: gphoto-2.1.6: gplaycd-0.1.0: gpm-1.20.1: ci gprename-1.7 gqview-2.0.1: graveman-0.3 | Resize vfat filesystem 3f: Window manager ched: Personal database a5: Multi-protocol instant messe .4: Scientific calculator 2.3.4: : oo extension to glib, needed .5: View network setup .3.23: internet dialup, needs ww partition mamager, needs gtkr Internet telephone : Play audio CDs onsole mouse support : batch file renamer image viewer,slideshow .8: CD/DVD burner, crashes in : Share blackboard over networ | by gp Add vdial-: mm,p; Remove | gimp-2.2.11: premier paint app |
| 4 | | | |
| | JOKAY | | X ABORT |

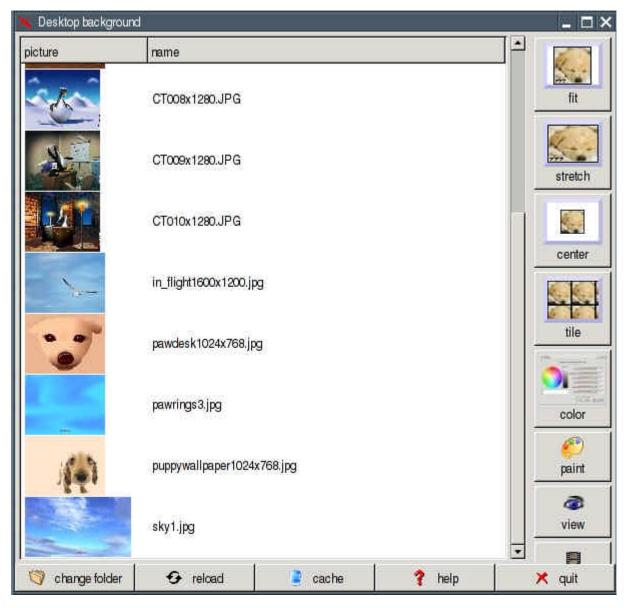
On the left side you can see all programs available. On the right side you see the programs already installed. Mark in the right list the program, which you would like to deinstall. Click on the button "Remove" between the two lists. Afterwards you press the button "OK".

Programs, which are on the Puppy CD-ROM, can not be deinstalled. But you can delete these programs from the menu (see chapter 8.2).

8. How to setup Puppy

8.1 How to change the background desktop-image

If you want to use another background picture, copy your picture into the directory /usr/share/backgrounds. Subsequently, you start the program "Menu | Desktop | Puppybackground desktop image". On the left side are the available background pictures. Select a picture and click on one of the four buttons fit / stretch / center / tile. The background desktop-image is changed immediately.



8.2 How to create your own menu

Puppy uses JWM (Joes Windows manager) as windows manager. You can adapt JWM to your needs. If you want to change the program-menu follow these commands:

- Start the program "Menu | File managers | puppyROX file manager"
- Change to the directory /root
- Click on the symbol "Show all files"

| * * | | | | | | | | | |
|------------|--------|----|--------------|-------------|---|-------|---------|--------------|---------------|
| ⇧ | 1 to 6 | 90 | 2 C | L 🗉 41 | ۲ | | 8 items | (39 hid | den) |
| | Name | • |] ype | Permissions | | Owner | Group | <u>S</u> ize | Last Modified |

- Right-click on the file .jwmrc and select "Open As Text". The .jwmrc-file is opened with Geany text editor now.
- Edit the file. The file .jwmrc has the following structure:

```
</Menu>
```

- Save the file and quit Geany.
- Restart JWM: "Menu | Shut Down | JWM restart"

You can find further information about JWM on these Internet sites:

- JWM Homepage
- JWM Configuration

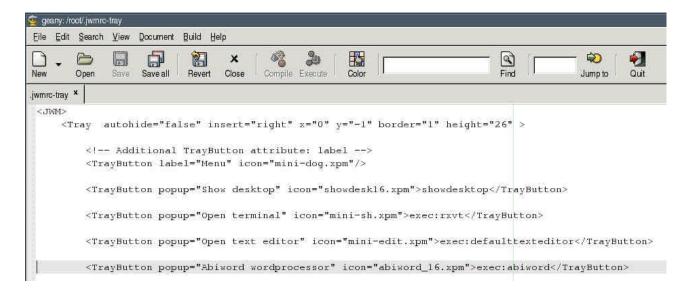
8.3 How to add a program icon at the tray zone

If you want to add a program icon at the tray zone enter these commands:

- Start the program "Menu | File managers | puppyROX file manager"
- Change to the directory /root
- Click on the symbol "Show all files"

| * * | | | | | | | | | | |
|------------|------|-----|------|-------------|---|---|-------|---------|--------------|---------------|
| Ŷ | @ ₽ | @ @ | 9, C | L 🔲 4% | • |) |] 🞯 | 8 items | (39 hidd | len) |
| [| Name | ۲ | Ţype | Permissions | | | Owner | Group | <u>S</u> ize | Last Modified |

- Right-click on the file .jwmrc-tray and select "Open As Text". The .jwmrc-tray file is opened with Geany text editor now.
- If you want to add e.g. abiword, add the following line:



- Save the file and quit Geany.
- Restart JWM: "Menu | Shut Down | JWM restart"

8.4 Setup time and date

To set date and time start the program "Menu | Desktop | Set date and time". If you want to change the clock from 12-hours to 24-hours-display enter these commands:

- Start the program "Menu | File managers | puppyROX file manager"
- Change to the directory /root
- Click on the symbol "Show all files"

| ₩~(| Thumbs) | ł | | | | | _ 🗆 × |
|-----|---------|---|---|----|------|----------------------|-------|
| Δ | ₩ | Ø | ٩ | IΞ |)0 | 11 items (62 hidden) | 4 |

- Right-click on the file .jwmrc-tray and select "Open As Text". The .jwmrc-tray file is opened with Geany text editor now.
- At the end of the file you see the "clock"-command. Edit this line as shown:

| | lit Search View Document Build Tools Help |
|-----------|--|
| New | Open Save Save all Revert Close Compile Execute Color |
| .jwmrc-tr | ay × |
| | <swallow name="mini-volume.tcl"> mini-volume.tcl -bg gray90 </swallow> <swallow name="freememapplet" width="48"> <!-- freememappletdelayed--> freememappletdelayed> freememapplet </swallow> |
| | <swallow name="xload" width="32"> xload -nolabel -bg "#BCBAB5" -fg red -hl white </swallow> |
| | <clock format="%H:%M:%5">minixcal</clock> |
| < | |

- Save the file and quit Geany.
- Restart JWM: "Menu | Shut Down | JWM restart"

8.5 How to store / remove a desktop icon

In order to store a desktop icon with a link to a program, directory or file, you can drag the file with the left mouse button from the file manager ROX onto the desktop.

If you want to remove a desktop icon right-click on the icon and select "Remove Item".

8.6 Setup DVD/CD-burning program TkDVD

Click on the button "Advanced Options" and enter a check mark at the option "Filesystem extensions | Add Joliet extensions". This enables you to use long filenames.

http://www.puppy-linux.info

| K TKDVD 4.0.1 | |
|--|--|
| File CD DVD | |
| Step 1: Select Files and | Folders |
| Burn files and folders | on a CD/DVD |
| Add Files | Add Directory Delete File/Dir Clear List Excluded Files. |
| Used space: 0 I | KB Free space: 700.0 MB |
| | - |
| | |
| | |
| | |
| | |
| | 1 |
| Only create | so9660 image |
| 🔿 Burn iso9660 image | Openii |
| Customize Burning | |
| Burning device: | /dev/dvd |
| | |
| Volume name: | Advanced Options. |
| Command: | mkisofs -J -r -pad -graft-points cdrecord dev=/dev/dvd - |
| | Burn |

| 🐛 Advanced Options 💶 🗖 🗙 |
|--|
| Filesystem extensions. |
| Add Joliet extensions (J) |
| Rock Hidge extensions: |
| ○ Off ○ RR extensions (-R) ● Anonymous RR extensions (all files set to rrr or +x if executable) (-r) |
| UDF extensions: |
| Off CUDF extensions (-udf) CUDD Video compliant UDF filesystem (-dvd-video) |
| CD/DVD size: |
| ○ 650 MB ● 700 MB ○ 4.7 GB ○ 8.5 GB (DL) |
| DVD: |
| T Add session to disc (-M) |
| IF Maximum media compatibility (if DVD R ⇒ create single session closed disc) (-dvd-compat) |
| CD: |
| Eject CD after burning |
| Track at once (-tao) C Disk/Session at once (-dao) |
| Other options: |
| 🖂 Overburn (-overburn) |
| l❤ Pad (-pad) |
| Automaticaly refresh used space (may take a lot of time) |
| Burning speed, leave blank for maximum speed (-speed=X) |
| Langage: |
| English |
| Close |
| |

9. How to make a backup

9.1 How to backup pup_safe.2fs

The file pup_safe.2fs contains the personal settings and your personal files, if the files are not stored on another partition (e.g. harddrive, USB stick). The backup is very simple. Either you start Puppy with the boot-option "puppy pfix=ram" or you start your old operating system (Windows). Then you copy the file onto the backup medium (e.g. another harddrive, USB stick, CD-ROM).

9.2 How to restore files out of the pup_save.2fs-file

You can see the content of the file pup_safe.2fs only if the file is loaded while booting Puppy. If the file cannot be loaded, there is nevertheless a way of getting into the file and saving the content:

- Start Puppy with the boot-option "puppy pfix=ram".
- Then you open a shell and enter the following command:

mount -o loop /mnt/hdax/pup_save.2fs /mnt/data

/mnt/hdax is the partition you stored the pup_save.2fs-file (e.g. mount -o loop /mnt/hda2/pup_save.2fs /mnt/data).

• Now you can see the content of the pup_save.2fs-file at the directory /mnt/data and you can copy all files to another harddrive or USB-stick.

9.3 Backup with rsync

If you do not store your files in the file pup_save.2fs but on a partition with ext2/ext3filesystem, you can backup the files with the rsync-command. I recommend a second (external) harddrive as backup medium. The backup harddrive must have an ext2/ext3filesystem too (see chapter 3.3.2).

Rsync synchronizes the backup with your current files and copies only the new and/or changed files on the backup medium. At the same time rsync deletes (if you want) all files from the backup medium, which you don't have anymore. In order to be able to use rsync, you must install the program first. (Search at the <u>Puppy-Forum</u>).

Before you make a backup ensure that your files were not compromised (see chapter 11.4).

The following example assumes that you saved your files at the directory /myData and that the backup directory is /backup.

Open a shell and enter the following commands:

• mount /dev/hda4 /mnt/hda4

Mount the partition, on which you stored your file. It must be a partition with a Linux-filesystem, e.g. ext2/ext3

• mount /dev/sda1 /mnt/sda1

Mount the partition, on which you want to store the backup, e.g. an external harddrive with ext2/ext3-filesystem.

• rsync -av --delete /mnt/hda4/myData/ /mnt/sda1/backup

Backup the files. If there is no backup-directory, create one with the command mkdir /mnt/sda1/backup $% \left(\frac{1}{2}\right) =0$

• umount /dev/hda4

Unmount the partition

umount /dev/sda1

Unmount the partition

Note: The diagonal stroke behind /mnt/hda4/myData/ is important. Only the files within the directory /mnt/hda4/myData are copied, not the directory myData itself.

These are the rsync-options:

- a: all directories and files are copied
- v: you can see the progress on the screen
- delete: directories and files, that no longer exist in myData are deleted from the backup. If you don't like this, leave out the --delete option.

With the following commands you can restore your files from the backup:

- mount /dev/hda4 /mnt/hda4
- mount /dev/sda1 /mnt/sda1
- rsync -av --delete /mnt/sda1/backup/ /mnt/hda4/myData
- umount /dev/hda4
- umount /dev/sda1

10. Multiuser

Puppy is not developed as a multi-user distribution. In contrast to other distributions each user has full access to all files, programs and personal data. Nevertheless there are some options for multiusers.

10.1 How to personalise the pup_save.2fs-file

If several persons work with Puppy, you can assign a pup_save.2fs-file to each person. In this way each person can configure Puppy individually and store his personal file in his own pup_save.2fs-file.

All pup_save.2fs-files must be in the same directory and must begin with "pup_save". For example, if there are two users Julia and Alexander you make a copy of the original pup_save.2fs-file first. Then you rename the original file as pup_save_Julia.2fs and the copied file as pup_save_Alexander.2fs. When starting Puppy askes which pup_save.2fs-file to use.

10.2. Multisession

As described in chapter 4.4, each user can use its own Puppy CD/DVD with his programs and his personal files. To do so use the boot option multi-session. Even though multi-session is really interesting I am hesitant to save on the same CD-/DVD-data medium again and again. I would always be afraid of losing my files.

11. Security

11.1 Live-CD

If you start Puppy from CD-ROM (or from a CD-image on your harddrive, see chapter 4.3) no potentially harmful programs can install on your computer. With every reboot all potential malware is gone.

However you are not wholly protected against malware while you are online, because (in theory) malware can be installed on your computer and can be active until the next reboot. That is why you should always run a firewall (see chapter 5). Besides you can store checksums of all your files (see chapter 11.4) to make sure, no one has manipulated your files.

11.2 Root

In contrast to most other Linux distributions Puppy does not differentiate between a normal user and the administrator root. Rather you always works as root, which simplifies the use of Puppy. The question arises if it is unsecure to work as root and to have full access to all files, programs and data.

For the normal home user, there are no special risks compared to other Linux distributions. On the contrary, Puppy is probably a bit safer than many other distributions.

First let's analyze the risk of a distribution, which differentiates between user and root. The user works as a normal user, who does not have privileges to write/delete programs and system files. An intruder can compromise only the user's files. However the intruder has an entrance to the system and can try to gain root-privileges (find the password file, use exploits to transfer malware code and so on), and afterwards try to get access to all files.

As long as Puppy starts from CD-ROM (and is not installed on the harddrive) the programfiles and system-files are secure. Everytime you reboot any malware programs, which an intruder could have left, are gone. Of course your own files stored into the pup_save.3fs-file or on a harddrive can be compromised by an intruder, but this can happen to the normal user of another Linux-distribution as well. If you want to be safe from intrusion, store checksums of all files and backup your files regulary (see chapters 9 and 11.4).

11.3 Firewall and daemons

The firewall (see chapter 5) should always be active. You can configure which ports are open to the Internet. Ideally all ports are closed. You should open only the ports you need to use. If you need some ports occasionally, keep the ports closed when not in use.

An open port is normally not risky in itself. Only if a server-program (called daemon) runs on your computer and waits at the port for inquiries, can it become dangerous. Therefore no daemons should run on your PC unless required.

The following instruction shows which ports are open and which daemons run:

- Install the Program nmap. Nmap is available as a PETget (see chapter 7.1).
- Open a shell and enter:

nmap localhost

Now you see the opened ports. If you are running Puppy at home without a homenetwork all ports should be closed. • The following command shows all daemons running:

netstat -anp --ip

Now you see the running daemons. If you are running Puppy at home no daemons should run.

• You can test your firewall at the Web site <u>Shields Up!</u>. Load the page and click the Proceed-button.

11.4 Virus scanner

If you want to scan your files or a Windows computer you can use F-Prot virus scanner. You can download the program from the <u>Forum</u>. After you have downloaded and installed the program open a shell and enter the following command while you are still online.

- /usr/local/bin/xfprot-gtk or
- /usr/local/xfprot/xfprot-gtk

Now you can update the virus definitions. Then you can get offline. Mount your Windowspartition (mount /mnt/hdax /mnt/devx) and make the follwing settings in F-Prot:

| K XFPROT 1.15 | | | | | _ 🗆 × |
|--|-------------|--|-----------------------------|------------|-------|
| Eile Icols Help | 0 | | | | |
| Path to scan | | | | | |
| /mnt/hda1 | | | | | |
| 🔲 Do not scan sub | directories | | | | |
| Scan mode | | 1 | Scan for macro viru | 15 | |
| Report only | | | • Yes | | |
| ⊙ Interactive | | O No | | | |
| O Automatic | | O Only | | | |
| Actions to try on infe | cted files | | Macro virus removal options | | |
| ☑ Disinfect whenever possible | | Remove infected macros from docs | | | |
| Rename infected COM/EXE files to VOM/VXE | | O Remove all macros from infected docs | | | |
| Delete infected files | | O Remove all macros from all docs | | | |
| File types | | | Options | | |
| Scan all files | | Scan inside archives Scan within password protected archives Scan for other various malware Enable neural network virus detection | | | |
| O Standard file extensions | | | | | |
| O Attempt to identify files | | | | | |
| Report file | | | | | |
| /root/xfprot.log | | Follow symbolic links | | | |
| Append to existing report file | | Do not complain about old DEF files | | | |
| List all scanned files | | Use heuristics: | ⊙ Yes ◯ No | 🔿 Only | |
| Scan | Report | Update | Test | Virus List | Info |

- Path to scan: /mnt/hdax
- Scan mode: Interactive

• Report file: /root/xfprot.log

When the virus scan has finished you can find the log-file at /root/xfprot.log.

If you want to scan another Windows computer, you can remaster Puppy (see chapter 13). Boot the Windows computer from the remastered Puppy CD (boot-option puppy pfix=ram) and scan the PC as described above.

11.5 Intrusion detection

For further improvement of your security you should store a checksum (a fingerprint) for all files. At regular intervals, but in any case before a backup, you examine the checksums of your files. If the checksums do not agree, the file was changed or deleted.

In order to compute and store the checksums, you open a shell and enter the following commands:

• md5sum /usr/bin/md5sum

Create a checksum of the program md5sum. Write down the checksum.

• mount /dev/hda4 /mnt/hda4

Mount the harddrive with your files.

find /mnt/hda4 -type f -exec ls -ail {} \; \-exec md5sum {} \; > /root/check1.dat

Create the file check1.dat with the checksums of all files.

• md5sum /root/check1.dat

Create a checksum of the file. Write down the checksum.

If you want to check, which files have been changed enter these commands:

• md5sum /usr/bin/md5sum

Create a checksum of the program md5sum. Compare the checksum with the checksum of step (1).

• md5sum /root/check1.dat

Create a checksum of the file /root/check1.dat. Compare the checksum with the checksum of step (3).

• mount /dev/hda4 /mnt/hda4

Mount the harddrive with your files.

find /mnt/hda4 -type f -exec Is -ail {} \; \-exec md5sum {} \; > /root/check2.dat

Create the file check2.dat with the actual checksums of the files.

diff /root/check1.dat /root/check2.dat > /root/diff.txt

Compare the two files check1.dat and check2.dat. The differences are written to the file diff.txt.

• Open the file /root/diff.txt and check, if you know about the changed files. If not think why these files have been changed.

- Delete the file /root/check1.dat
- Rename the file /root/check2.dat as /root/check1.dat.
- md5sum /root/check1.dat

Create a checksum of the new check1.dat-file. Write down the checksum.

11.6 Encrypt with bcrypt

You should encrypt very sensitive files with the program bcrypt. Bcrypt uses the secure Blowfish-algorithm.

Open a shell and enter:

bcrypt /MyDirectory/MyFile

Then you are asked a passwort (at least eight characters long; you can abort bcrypt with "Ctrl" + "C"). Bcrypt encrypts your file and appends the extension bfe to the file. The original file is deleted automatically.

If you want to encrypt more than one file or a complete directory you should create an archive-file. Start the program "Menu | Utilities | Xarchive archiver". Afterwards you encrypt the archive-file.

Note that bcrypt deletes the original file automatically. You can't recover the file. If you don't want to delete the file start bcrypt with the option -r:

• bcrypt -r /MyDirectory/MyFile

If you want to decrypt the file start bcrypt again:

• bcrypt /MyDirectory/MyEncryptedFile

Than you enter your passwort.

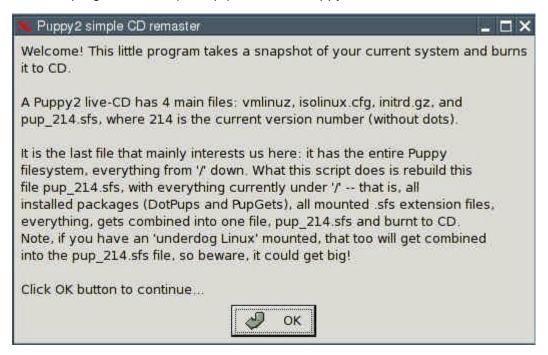
For further information see :

Homepage bcrypt

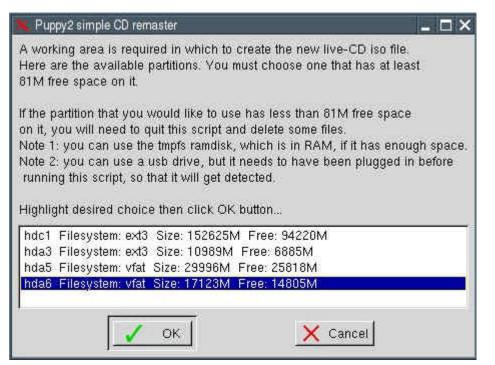
12. Make your own Puppy-CD

You can create your own Puppy-Linux with the following program.

Start the program "Menu | Setup | Remaster Puppy live-CD":



Click on the OK-button.



Choose the partition, on which a temporary working directory should be made with the tabulator-keys. Then press the OK-button.

| 🛰 Puppy2 simple CD remaster | - 🗆 × |
|---|-------------------|
| This remaster program needs to read some files off the curre So, you need to choose a CD/DVD drive, and it must also so that the files created by this program can be burnt to a n Choose the CD/DVD drive | be a burner drive |
| /dev/hdd_LITE-ON_DVD+RW_LDW-401S /dev/hdb_DVD-ROM_BDV316C | |
| Cance | 1 |

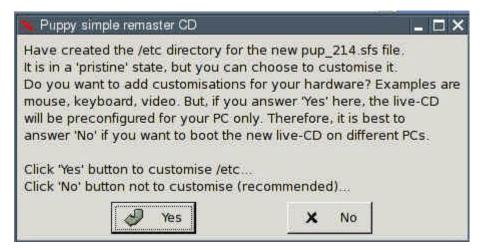
Choose your CD/DVD-burning device with the tabulator-keys. Then press the OK-button.

| 📉 Puppy2 simple Cl |) remaster | _ 🗆 × |
|---------------------|---------------------------------------|-------------------|
| Please insert the c | urrent Puppy live-CE Then click OK |) into drive hdd. |
| | 🗸 ок | |

Insert the current Puppy-live-CD and press the OK-button.

| N Puppy2 simple CD remaster | _ 🗆 × |
|--|-------|
| Creating the pup_214.sfs file in /mnt/hda5/puppylivecd This can take quite a long time, so please wait and v Note, no need to click the OK button, as this window w when pup_214.sfs is finally created. Please wait | wait |
| <i>₫</i> ок | |

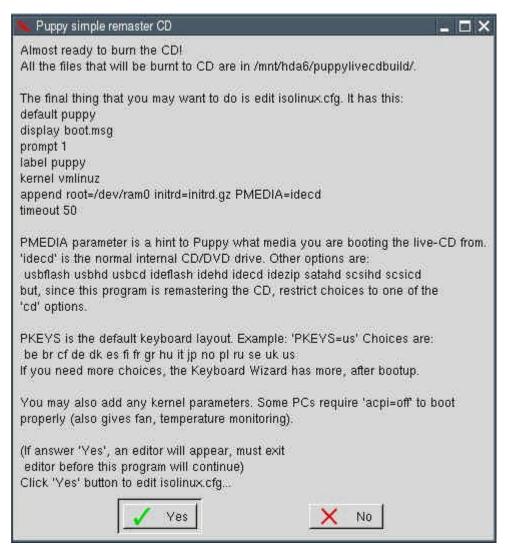
Click on the OK-button.



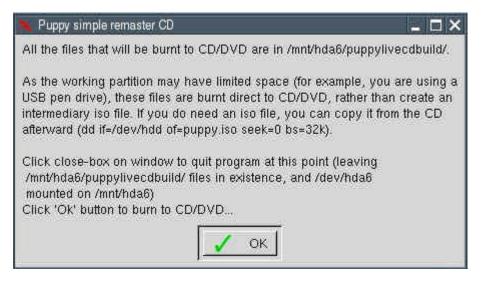
Click on the button "No".

| 🗙 Puppy simple remaster CD 🛛 📃 🗖 🗙 |
|--|
| Hardware customisation was not chosen. |
| If you know what you are doing, you can now modify any files in /tmp/etc folder. This is just about to be added to /etc in the .sfs file. Do anything you want before clicking 'Ok'. (If this program has missed something important, let me know Barry Kauler) |
| Click 'Ok' to add /etc in pup_214.sfs file |
| <i>с</i> |

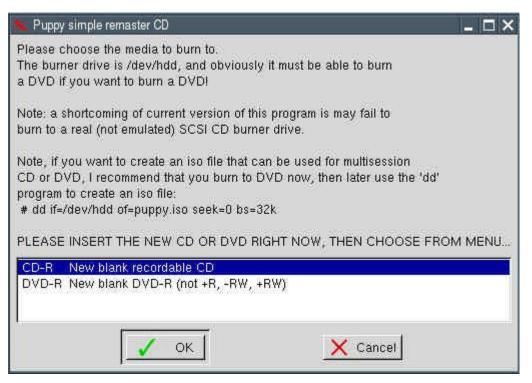
Click on the OK-button.



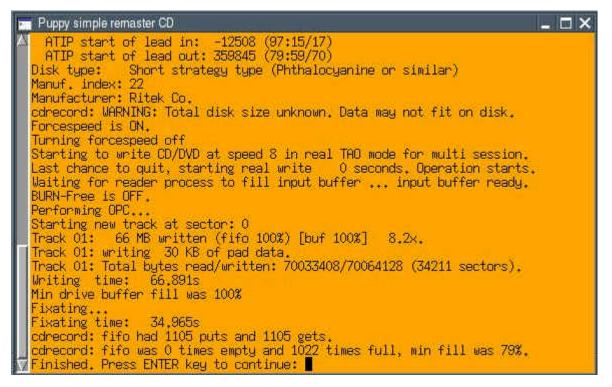
Click on the button "No".



Click on the OK-button.



Take the live-CD out of the CD/DVD-burning device and insert a new CD-ROM or DVD. Choose if you want to create a CD or DVD with the tabulatorkeys. Then click on the OK-button.



Your new Puppy-CD/DVD will now be created. When it has finished, press the Return-key.

- 🗆 X

Puppy simple remaster CD

You should now have a new custom Puppy live-CD!

WARNING:

There is a tricky situation here, as all the installed packages (DotPups and PupGets, plus anything else that you may have installed, have all been burnt to CD/DVD (plus .sfs extension files).

But, they are still installed in the current pup_save.3fs, the Puppy persistent storage file (where all your stuff gets saved, so it is there next time Puppy is booted). All those files are duplicated, but will that do any harm if you boot the new CD? ...should be okay, but I recommend that you uninstall as much as possible right now, before booting the new CD. Note, do not uninstall them after booting the new CD as that will also 'delete' the packages burnt onto the CD.

But, you do not even know if your new CD works, perhaps it is best if you boot it to confirm it works. Then, boot the old CD again, and delete all the packages, get rid of .sfs extension files also.

Or, easiest and cleanest option, boot another operating system, or an older Puppy multisession CD, and rename the pup_save.3fs file (you should not do this while it is in use, hence the advice to boot some other OS that does not use it) -- then boot your new live-CD.

I do not want this warning to get to confusing, but if you had used a multisession CD when running this program, or run Puppy totally in RAM, then a pup_save.3fs file is not used. If it exists on the hard drive, you could rename it. Then when boot the new live-CD, no existing pup_save.3fs to mess things up.



Click on the OK-button. Your Puppy-live-CD is now ready.

13. Tips and tricks

13.1. Windows-programs und corresponding Puppy-Linux-programs

| Windows | Puppy-Linux |
|----------------------|---------------------------|
| Windows Explorer | ROX |
| Word | Abiword, OpenOffice Write |
| Excel | Gnumeric, OpenOffice Calc |
| PowerPoint | OpenOffice Impress |
| Notepad | Editor Geany |
| Internet Explorer | SeaMonkey Browser |
| Outlook | SeaMonkey Mail |
| Frontpage | Bluefish |
| Photoshop, Paintshop | Gimp |
| mp3-Player | Xmms |
| DVD-Player | Gxine |

13.2 Upper and lower case

Linux always differentiates between upper and lower case. The two files MyFile.txt and myfile.txt are different file.

13.3 Special characters

Do not use special characters except for minus (-) and underline (_) for filenames or directory-names. Don't use the space-character. Use the characters A-Z, a-z, 0-9, -, _ only.

13.4 How to move files with ROX

If you left-click on a file and pull it to another directory the file is copied. If you press the shiftkey at the same time, the file is moved.

Further inforamtions about ROX

13.5 The contextmenu of ROX

To use the contextmenu of ROX right-click on a file or directory.

13.6 Copy and paste in the shell rxvt

Copy = left mouse-click Paste = middle mouse-click

13.7 Automatic completion in the shell rxvt

You do not have to type the entire path or filename at the shell. It is enough to type the first letters and then press the tabulator-key. The shell completes the directory-name or filename.