FreeBSD
FreeSBIE LiveCD

Browsing with Tor and Privoxy

Privacy is important and that is a fact. You don't want other people to know what websites you visited, where did you come from and so on. The same applies for other internet services: SSH, IRC, and so on. FreeSBIE provides two powerful tools for secure and anonymous surfing: Tor and Privoxy. You can redirect your connection through various routers and achieve nearly perfect anonymity. Because the configuration is not simple FreeSBIE helps you with a script: */usr/local/bin/freesbie_tor*. Here are the most important options:

Parameter	Meaning
start	*using* **Privoxy**, **Tor** and the **PF** paket filter
stop	Stop **Privoxy** and **Tor** and flush **PF**'s rules and states.
wl / whitelist *address*	Add *address* to the table of sites to which connections should not been redirected through Privoxy and Tor. *address* can be both an IP address or a fully qualified name.
bl / blacklist *address*	Remove *address* to the table of sites to which connections should not been redirected through Privoxy and Tor. *address* can be both an IP address or a full qualified name.

Frequently Asked Questions (FAQ)

1. The monitor does not use the correct resolution!

This problem is caused by the X.org server unable to communicate correctly with your monitor. You can try to solve this by editing /etc/X11/xorg.conf: look for the Monitor section and follow the instructions.

2. Can I install FreeSBIE 2.01 on my hard disk?

Short answer: no. Long answer: FreeSBIE 1.1 had BSD-Installer installed, thus it was possible to install FreeSBIE 1.1 on a hard disk. Due to lack of time, resources and interest, FreeSBIE 2.01 does not offer this feature. Nevertheless, since FreeSBIE is nothing more than FreeBSD on a Live CD you can install FreeBSD via /usr/sbin/sysinstall, take FreeSBIE's configuration files and copy them to the installed FreeBSD system.

TODO list for the next FreeSBIE release

The following is a list of items which just did not make it into this release. If a release could have all the features needed by the users and all the features wished for by the developers, there would not be any future release.

1. Code review - although the FreeSBIE toolkit was completely rewritten in summer of 2004 there are many modified/changed/rewritten parts. Those parts need to be carefully examined and verified. FreeSBIE is BSD, code quality really matters!

2. Reimplementation of the BSDinstaller. This work is already progressing fast.

3. toram option: The complete operating system is loaded into ram and the CD/DVD can be ejected/replaced.

4. UnionFS would lead to a more rational memory usage. UnionFS has improved stability and patches are currently tested.

5. NanoBSD's and TinyBSD's features -- the goal is to have a unique framework to create FreeBSD media of different sizes, from Compact Flash card to DVDs.

Available applications

FreeSBIE 2.01 ships with more than 450 applications and over 1,3 GB compressed software. You can find for example Abiword, bash, cdrtools, Clamav, CUPS, Firefox, Emacs, Gaim, Gimp, gphoto2, Irssi, Kismet, mplayer, Nagios, Samba, Snort, Thunderbird, xchat, XFCE, Fluxbox, Xorg etc. All applications are documented with their respective dependencies in /pkg_info.txt on the CD. There's always something missing, please contact the FreeSBIE team if you need more applications!

Additional Information

If you experience any difficulties we stronlgy advise you to have a look at the excellent FreeBSD handbook first:
http://www.freebsd.org/doc/en/books/handbook/

More information can be found here:
http://www.freesbie.org/

http://www.freesbie.org/share/2.0.1/manual/

http://www.allbsd.de/src/Flyer/FreeBSD/PDF/flyer-en-fbsd-installation.pdf

What is FreeSBIE?

FreeSBIE is a complete operating system working from CD or DVD with automatic hardware detection and support for many graphic cards, USB devices and other hardware. It is a subproject of FreeBSD that aims to provide a a LiveCD for users wanting to learn more about FreeBSD without risking any loss of data or installations on disk(s) and testing their hardware if it is supported.

If FreeSBIE detects your hardware you can be sure FreeBSD 6.2 will do it too because FreeSBIE 2.01 is based on FreeBSD 6.2. FreeSBIE can be used on any Intel compatible computer.

FreeSBIE can also be used as a desktop system, learning CD, recovery system, tool for anonymous surfing with Tor and Privoxy, installation media for FreeBSD or any other purpose you may like/need. You don't need to install FreeSBIE on a disk but you can choose to do so, please read the links to the FreeBSD handbook or the FreeBSD installation flyer at the end of this document. .

The BSDInstaller shipped with previous versions of FreeSBIE is no longer included but will be back in the next version. FreeSBIE was founded and developed 2002 by italian FreeBSD users (GUFI = Gruppo Utenti FreeBSD Italia) and the FreeSBIE toolkit is available as a FreeBSD Port to allow everybody to create their own LiveCD. The FreeSBIE tools are used by many other FreeBSD projects (DesktopBSD, RoFreeSBIE etc.).

How to use FreeSBIE?

Very simple: Download the iso, burn your CD or DVD as an image with any application available (Nero, k3b etc.), put the CD/DVD in your drive, boot. If your machine has at least 64 MB ram you can use FreeSBIE and use it as a FreeBSD live system.

After booting

After booting you will see the first boot menu. If you want to start FreeSBIE with defaults you can either press "1" or wait 10 seconds.
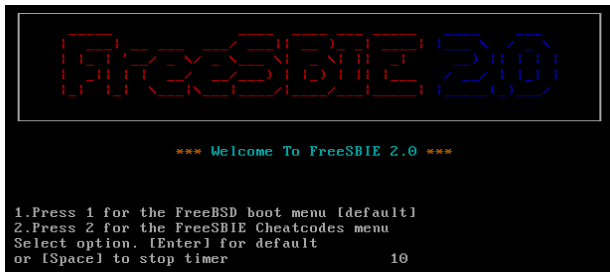
If you want to customize FreeSBIE for your needs please press "2" and see chapter "cheatcodes" following. If you have chosen default via pressing 1 or waiting for 10 seconds you should see the second boot menu:


Most of the options in the menu above are only important for experienced users or if you have difficulties using the defaults. Please press "1" again or wait another 10 seconds to use the default. After that you will see the boot splash. If you like to see the boot messages please hit any key and the boot splash will disappear.

From console to windowmanager

You are at the console now and can start to work or explore FreeSBIE. If you want to start XFCE please type *"startx"* and *Enter*; see picture below how XFCE looks. If you have any questions please look at the excellent FreeBSD handbook first:

http://www.freebsd.org/doc/en_US.ISO8859-1/books/handbook/
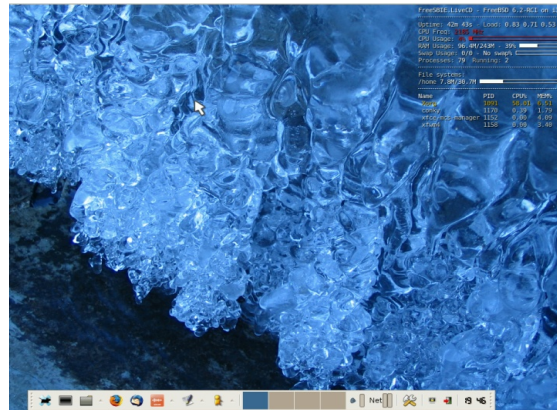
Cheatcodes

If you have pressed "2" in the first boot menu you are in the cheatcode menu. FreeSBIE has a lot of parameters you can tweak. For example character set, keyboard layout, size of ramdisk used, windowmanager used (XFCE is default, Fluxbox can be used alternatively) etc. Please type "*help cheatcodes"* and *Enter* to see all options available. Here are the most important options:

Cheatcode	Accepted Values	Description
freesbie.lang	bg, cz, cs, de, en, es, fr, it, pl, ru, sk, ua	language, character set, keyboard layout etc.
freesbie.mount-disks	yes, no	mounting partitions on disk(s)
freesbie.wm	fluxbos, xfce	selection of window manager
freesbie.backup	yes, no, device	yes/no, device for backup

Mounting drives

If you like to use FreeSBIE as a recovery tool you need to mount one or more disks. FreeSBIE helps you with a script that enables you to mount up to 8 partitions with the following file systems: FAT16/32, UFS2, EXT2FS, ReiserFS. Please type the following as user *freesbie*:

% sudo mountdisks rw

If you like to mount the partitions read only please replace the *rw* with *ro*. You can find the slices/partitions mounted as subdirectories of /mnt/ .

Backup and restore of personal data

FreeSBIE stores all data on a ramdisk. After shutting down the system all data not backed up separately is lost. There's a simple tool for backup: */usr/local/bin/save-backup*. This script parses the file */etc/backup.1st*, creates an archive with all data you might want to store and copies it to a device you have chosen.

backup.1st contains a list of all directories you want to backup. If you want to exclude a specific subdirectory/file within a directory please add a line starting with "-" below the name of the directory you want to backup. You can find a detailed example how to use it in */etc/defaults/backup.lst*. Please start the script with:

% sudo savebackup da0s1

da0s1 is only an example. You can replace it with whatever partition you may like but it needs to have a filesystem writeable with FreeBSD.

You may wonder where this data is stored. The answer is the compressed archive freesbie_*YYYYMMDD_HHMM* in chosen directory. The date and time in the filename are those of archive creation.

To do a recovery use the script */usr/local/sbin/restoredata*. On every boot FreeSBIE automatically scans for it.

Note: FreeSBIE will check for backup archives only on your removable media. Use the *freesbie.backup* cheatcode to specify the device where FreeSBIE should scan for backup archives.