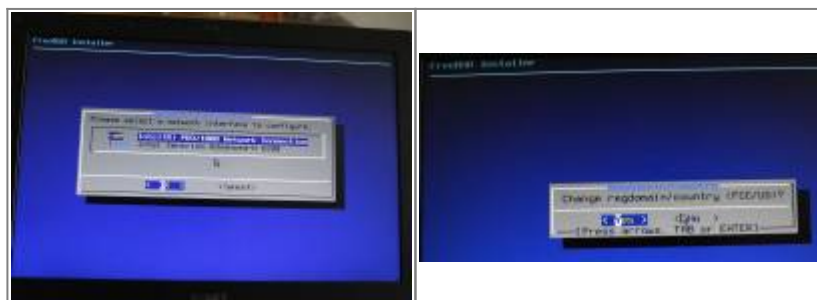


Installation de FreeBSD 12

Sur laptop, DELL Latitude E5430 et DELL Latitude E6410

Installation

Récupérer l'iso de FreeBSD. La graver sur une clef USB et booter dessus. Suivre l'installation pas à pas.



Faire attention au stade de configuration réseau de choisir pour ETSI / FR “country FR regdomain ETSI”



“country FR regdomain ETSI”

Voici les options que j'ai choisies lors de **System Configuration**



Rebooter sur FreeBSD

Francisation

Editer le fichier **/etc/login.conf**

```
default:\n:passwd_format=sha512:\n:copyright=/etc/COPYRIGHT:\n:welcome=/etc/motd:\n:setenv=MAIL=/var/mail/$,BLOCKSIZE=K:\n:path=/sbin /bin /usr/sbin /usr/bin /usr/local/sbin /usr/local/bin
```

```
~/bin:\
: nologin=/var/run/nologin:\
: cputime=unlimited:\
: datasize=unlimited:\
: stacksize=unlimited:\
: memorylocked=64K:\
: memoryuse=unlimited:\
: filesize=unlimited:\
: coredumpsize=unlimited:\
: openfiles=unlimited:\
: maxproc=unlimited:\
: sbsize=unlimited:\
: vmemoryuse=unlimited:\
: swapuse=unlimited:\
: pseudoterminals=unlimited:\
: kqueues=unlimited:\
: umtxp=unlimited:\
: priority=0:\
: ignoretime@:\
: charset=UTF-8:\
: lang=fr-FR.UTF-8:\
: umask=022:
```

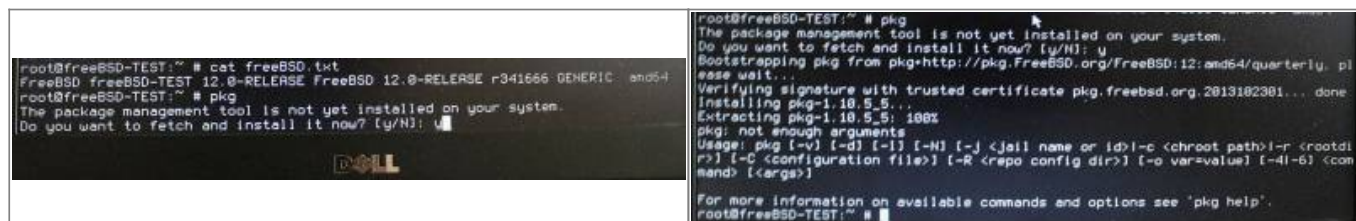
Ajouter pour que les locales soient prises en compte

```
: charset=UTF-8:\
: lang=fr-FR.UTF-8:\
```

Le recharger

```
cap_mkdb /etc /login.conf
```

Initialisation de pkg



```
root@freebsd-TEST:~ # cat freebsd.txt
FreeBSD freebsd-TEST 12.0-RELEASE FreeBSD 12.0-RELEASE r341666 GENERIC amd64
root@freebsd-TEST:~ # pkg
The package management tool is not yet installed on your system.
Do you want to fetch and install it now? [y/N]: y
Bootstrapping pkg from pkg+http://pkg.FreeBSD.org/FreeBSD:12:amd64/quarterly. pl
ease wait...
Verifying signature with trusted certificate pkg.freebsd.org.2013102301... done
Installing pkg-1.10.5_5...
Extracting pkg-1.10.5_5: 100%
pkg: not enough arguments
Usage: pkg [-v] [-d] [-i] [-N] [-j <jail name or id>] [-c <chroot path>] [-r <rootd
ir>] [-C <configuration file>] [-R <repo config dir>] [-o var=value] [-dI-6] <com
mand> [<args>]

For more information on available commands and options see 'pkg help'.
root@freebsd-TEST:~ #
```

AJOUTER un user

```
# adduser
```

L'inclure dans les groupes : wheel operator video

Gestion du son

```
#kldload snd_driver
```

```
cat /dev/sndstat
Installed devices:
pcm0: <IDT 92HD93BXX (Analog 2.0+HP/2.0)> (play/rec) default
pcm1: <IDT 92HD93BXX (Analog)> (play/rec)
pcm2: <Intel Panther Point (HDMI/DP 8ch)> (play)
pcm3: <Intel Panther Point (HDMI/DP 8ch)> (play)
pcm4: <Intel Panther Point (HDMI/DP 8ch)> (play)
No devices installed from userspace.
```

```
#sysrc kld_list+=snd_hda
```

Affichage : drm-kmod

Installer le paquet

```
pkg install drm-kmod
```

Initialisation au boot

```
sysrc kld_list+="/boot/modules/i915kms.ko"
```

Le charger

```
kldload /boot/modules/i915kms.ko
```

Vérifier

```
kldstat -v | grep i915
```

X11 / XFCE

```
pkg install xorg xfce xfce4-goodies xfce4-mixer xfce4-volumed xf86-video-
intel file-roller
```

Pour activer le suspend et resume

Créer ces 2 fichiers

```
pkg info -D xfce4-session
xfce4-session-4.12.1_4:
```

Always:

To be able to shutdown or reboot your system, you'll have to add `.rules` files in `/usr/local/etc/polkit-1/rules.d` directory. Which looks like this (replace `PUTYOURGROUPHERE` by your group):

```
polkit.addRule(function (action, subject) {
  if ((action.id == "org.freedesktop.consolekit.system.restart" ||
      action.id == "org.freedesktop.consolekit.system.stop")
      && subject.isInGroup("PUTYOURGROUPHERE")) {
    return polkit.Result.YES;
  }
});
```

For those who have working suspend/resume:

```
polkit.addRule(function (action, subject) {
  if (action.id == "org.freedesktop.consolekit.system.suspend"
      && subject.isInGroup("PUTYOURGROUPHERE")) {
    return polkit.Result.YES;
  }
});
```

Démarrer xfce

On aura besoin de dbus

```
Pkg install dbus
service dbus onestart
```

On utilisera xinit pour le lacement de XFCE Créer dans le Home un `.xinitrc`

```
# SET PROPER locale
export LANG="fr_FR.UTF-8"
export LC_ALL="fr_FR.UTF-8"
export LC_MESSAGES="fr_FR.UTF-8"

# Clavier français
setxkbmap fr &
# Lancer xfce
/usr/local/bin/startxfce4
```

Enfin lancer la session X

```
xinit .xinitrc
```

Lier `xinitrc` et `xsession`

```
ln -s ~/.xinitrc ~/.xsession
```

anti-aliasing avec la police Helvetica

Editer ce fichier ainsi

```
<?xml version='1.0'?>
<!DOCTYPE fontconfig SYSTEM 'fonts.dtd'>
<fontconfig>

  <dir>~/.fonts</dir>

  <!--    do not use the embedded bitmap instead of the outline
    <a href="https://www.freebsd.org/cgi/man.cgi?query=fonts-conf&sektion=5&manpath=FreeBSD+and+Ports">https://www.freebsd.org/cgi/man.cgi?query=fonts-
conf&sektion=5&manpath=FreeBSD+and+Ports</a>
    <a href="https://bbs.archlinux.org/viewtopic.php?id=161609">https://bbs.archlinux.org/viewtopic.php?id=161609</a> post 2 (2013)
    <a href="https://redd.it/7kqr5l">https://redd.it/7kqr5l</a> (2017) -->
  <match target="font">
    <edit name="embeddedbitmap" mode="assign">
      <bool>false</bool>
    </edit>
  </match>

  <!--    prefer outline e.g. TrueType instead of bitmap fonts
    <a href="https://bbs.archlinux.org/viewtopic.php?id=161609">https://bbs.archlinux.org/viewtopic.php?id=161609</a> post 2 (2013)
    <a href="https://redd.it/4tb2dt">https://redd.it/4tb2dt</a> (2016) -->
  <match target="font">
    <edit name="prefer_outline">
      <bool>true</bool>
    </edit>
  </match>

  <!--    reject bitmap fonts, except Ohsnapu - prefer PostScript,
  TrueType et cetera
    <a href="https://forums.freebsd.org/threads/howto-nice-fonts.2021/>https://forums.freebsd.org/threads/howto-nice-fonts.2021/</a> (2009)
    <a href="https://redd.it/4tb2dt">https://redd.it/4tb2dt</a> (2016) -->
  <selectfont>
    <acceptfont>
      <pattern>
        <patelt name="family">
          <string>Ohsnapu</string>
        </patelt>
      </pattern>
    </acceptfont>
    <rejectfont>
      <pattern>
        <patelt name="scalable">
          <bool>false</bool>
        </patelt>
      </pattern>
    </rejectfont>
  </selectfont>
```

</fontconfig>

Paramétrage de Xorg

Carte video

Créer ces 2 fichiers

```
# cat /usr/local/etc/X11/xorg.conf.d/card.conf
Section "Device"
    Identifier "Card0"
    Driver "intel"
    Option "DPMS"
    Option      "Backlight"  "intel_backlight"
EndSection
```

Le clavier

```
# cat /usr/local/etc/X11/xorg.conf.d/keyboard.conf
Section "InputDevice"
    Identifier "Keyboard0"
    Driver "kbd"
    Option "XkbLayout" "fr"
    Option "XkbOptions" "terminate:ctrl_alt_bksp,ctrl:nocaps"
EndSection
```

Configuration spécifique

timeout boot

Diminuer le timeout du menu du boot loader à 2 secondes

```
sysrc -f /boot/loader.conf autoboot_delay=2
```

Acc. chiff.

Accélération de chiffrement des processeurs modernes

```
#echo 'aesni_load="YES"' >> /boot/loader.conf
```

Module à charger dans /boot et non /etc/rc.conf pour un chargement plus rapide

Scheduler

Configuration pour une utilisation pour desktop/laptop

```
sysrc -f /etc/sysctl.conf kern.sched.preempt_thresh=224
```

Pour activer la réponse «yes» aux questions de fsck au démarrage:

```
sysrc fsck_y_enable=YES
```

Micro codes CPU

Utiliser micro codes CPU

```
pkg install devcpu-data  
service microcode_update enable  
service microcode_update start
```

ACPI

device driver for Intel Core on-die digital thermal sensor cpuctl pseudo device

```
sysrc kld_list+=coretemp  
sysrc kld_list+=cpuctl
```

Monter les périphériques amovibles

Attention la version d'automount des repos ne permet pas de monter du FAT32. Utiliser cette procédure.

Installer git

```
# pkg install git  
# git clone https://github.com/vermaden/automount.git
```

Initialisation des ports

(nécessaires pour compiler exfat-utils/exFAT et sysutils/fusefs-exfat)

```
# portsnap fetch  
# portsnap extract
```

Compilation de fusefs-exfat

```
# cd /usr/ports/sysutils/fusefs-exfat/  
# make install clean
```

Accepter la licence et toutes les options par défaut

Compilation de exfat-utils

```
# cd /usr/ports/sysutils/exfat-utils/  
# make install clean
```

Même procédure

Installer le reste des dépendances via pkg

```
# pkg install fusefs-ntfs fusefs-ext4fuse fusefs-hfsfuse fusefs-lkl fusefs-simple-mtpfs zenity
```

Détarer automount-1.6.1.tar.gz récupéré du git , entrez dans le dossier

Editer ce fichier de cette façon

```
$ cat /usr/local/etc/automount.conf  
USERMOUNT=YES  
ATIME=NO  
REMOVEDIRS=YES  
FM="thunar"  
USER=ragnarok  
ENCODING=fr_FR.UTF-8  
CODEPAGE=cp850
```

Installation manuelle d'automount

```
# cp automount.conf /usr/local/etc/automount.conf  
# cp automount_devd.conf /usr/local/etc/devd/automount_devd.conf  
# cp automount /usr/local/sbin/automount  
# chmod +x /usr/local/sbin/automount  
# /etc/rc.d/devd restart
```

Et hop, ça fonctionne.....

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