

FreeBSD

Remote Console

Daniel Gerzo <danger@FreeBSD.org>
##: 44974

© 2008 The FreeBSD Documentation Project

FreeBSD # FreeBSD#####

FreeBSD
Project ##### 1m1 # 1@1 #####
2014-05-29 # lwhsu.

##

console #### FreeBSD ##### ##### Martin
Matuska ##### ## Pawel Jakub Dawidek #####

####

1. ##	1
2. ##	1
3. ## - mfsBSD	2
4. FreeBSD #####	4
5. ZFS	6

1.

server hosting provider##### FreeBSD ##### ##### Linux®
distribution #####

Linux® distribution ### ##### FreeBSD# #####
FreeBSD#

FreeBSD ##### RAID-1 # ZFS

2.

FreeBSD #####(colocation)#####

1. `#### ## ##### server hosting ##### LAN ##### SSH ###`
`#### ##### ##### FreeBSD#`
2. `##### FreeBSD — ##### ramdisk ##### sysinstall #`
`FTP mirror ##### FreeBSD #####`
3. `##### ZFS #####`

2.1.

#####

- ##### SSH #####
- ## FreeBSD #####
- ##### [sysinstall\(8\)](#)
- # FreeBSD ##### ISO image #

3. ## - mfsBSD

FreeBSD ##### FreeBSD #### image ## ##### console#

mfsBSD ##### FreeBSD image ## mfsBSD (#### “mfs” ## “memory file system”)
 ##### ramdisk ##### FreeBSD ##### mfsBSD
 ##### <http://people.freebsd.org/~mm/mfsbsd/> # ##### release ###

####mfsBSD ##### mfsBSD #####

mfsBSD ##### mfsBSD script

```
# fetch http://people.freebsd.org/~mm/mfsbsd/mfsbsd-latest.tar.gz
# tar xvzf mfsbsd-1.0-beta1.tar.gz
# cd mfsbsd-1.0-beta1/
```

3.1. ## mfsBSD

mfsBSD ##### mfsBSD

root ### ##### conf/rootpw.conf

3.1.1. ####(conf/interfaces.conf ##)

mfsBSD ##### mfsBSD ### script ##### MAC #####
 ##### conf/interfaces.conf #####

```
#### FreeBSD ##### Remote Console
```

```
initconf_interfaces="ext1"
initconf_mac_ext1="00:00:00:00:00:00"
initconf_ip_ext1="192.168.0.2"
initconf_netmask_ext1="255.255.255.0"
```

```
#### conf/rc.conf #### defaultrouter #####
```

```
defaultrouter="192.168.0.1"
```

3.1.2. ####(conf/rc.conf ##)

```
##### conf/rc.conf ##### FreeBSD ### rc.conf(5) #####
```

```
##### re(4)##### conf/rc.conf #####
```

```
defaultrouter="192.168.0.1"
ifconfig_re0="inet 192.168.0.2 netmask 255.255.255.0"
```

3.2. ## mfsBSD image

```
## mfsBSD image #####
```

```
#### FreeBSD ##### ISO image ### /cdrom# ##### FreeBSD 7.0-
RELEASE ISO# ## ISO image #### /cdrom ##### ## mdconfig(8)#
```

```
# mdconfig -a -t vnode -u 10 -f 7.0-RELEASE-amd64-disc1.iso
# mount_cd9660 /dev/md10 /cdrom
```

```
##### mfsBSD image#
```

```
# make BASE=/cdrom/7.0-RELEASE
```



```
##
```

```
### make #### mfsBSD ##### ~/mfsbsd-1.0-beta1/ #
```

3.3. mfsBSD

```
## mfsBSD image ##### Linux® distribution# #####
scp#
```

```
# scp disk.img root@192.168.0.2:.
```

```
##### mfsBSD image#####(###)##### sda# #####
```

```
# dd if=/root/disk.img of=/dev/sda bs=1m
```

```
##### image ##### MBR ##### ping(8) ##### ping
##### ssh(1) ##### root #####
```

4. FreeBSD

```
## mfsBSD ##### ssh(1) ##### slice ##### gmirror ## RAID-1####
sysinstall ## FreeBSD #####
```

4.1.

```
##### FreeBSD##### slice #####
## ##### sysinstall ## fdisk(8) ## bsdlabel(8) #####
```

```
#####
```

```
# dd if=/dev/zero of=/dev/ad0 count=2
```

```
##### slice #### label# ##### # sysinstall ##### UNIX®
####(## fdisk(8),bsdlabel(8))##### FreeBSD Handbook # ## FreeBSD #####
##### RAID-1 ##### ZFS# ##### gmirror(8) ##### mirrored ##### / (
##),/usr ## /var##### zpool(8) ## ZFS # mirrored ##### # ##### FreeBSD
##### ZFS #####
```

```
##### slice ## label##### gmirror(8)##### mirrored ##### UFS2 #####
```

```
# fdisk -BI /dev/ad0 ❶
# fdisk -BI /dev/ad1
# bsdlabel -wB /dev/ad0s1 ❷
# bsdlabel -wB /dev/ad1s1
# bsdlabel -e /dev/ad0s1 ❸
# bsdlabel /dev/ad0s1 > /tmp/bsdlabel.txt && bsdlabel -R /dev/ad1s1 /
tmp/bsdlabel.txt ❹
# gmirror label root /dev/ad[01]sla ❺
# gmirror label var /dev/ad[01]sld
# gmirror label usr /dev/ad[01]sle
# gmirror label -F swap /dev/ad[01]s1b ❻
# newfs /dev/mirror/root ❼
# newfs /dev/mirror/var
# newfs /dev/mirror/usr
```

- ❶ ##### slice #####
- ❷ ##### label ## bootstrap ##
- ❸ ##### label#####(partitions) ## bsdlabel(8) #####a ## / (##)# b
swap# d # /var# e # /usr# ##### f # ZFS
- ❹ #### label ##### label #####
- ❺ ##### gmirror(8)
- ❻ #### -F ##### swap ## ##### gmirror(8) #####

FreeBSD ##### Remote Console

❗ ##### mirror ##### UFS2 ####

4.2.

FreeBSD# #####
sysinstall ### FreeBSD #####

```
# mount /dev/mirror/root /mnt
# mkdir /mnt/var /mnt/usr
# mount /dev/mirror/var /mnt/var
# mount /dev/mirror/usr /mnt/usr
```

[sysinstall\(8\)](#)# ##### Custom #### Options # Enter# ##### Install
Root ### Space ##### /mnt### Enter ##### q ##### Options ###



##

sysinstall ##### FreeBSD#

Distributions##### Minimal ### Space ## ##### ftp
Exit



##

Partition # Label

Media ##### FTP# ##### mirror ##### sysinstall ##### Custom

Commit ##### sysinstall#

4.3.

FreeBSD ##### FreeBSD

[chroot\(8\)](#)

```
# chroot /mnt
```

#####

- # GENERIC kernel ### /boot/kernel ###

```
# cp -Rp /boot/GENERIC/* /boot/kernel
```

- ## /etc/rc.conf , /etc/resolv.conf # /etc/fstab ### ##### /etc/rc.conf ###
sshd ### # /etc/fstab

# Device Pass#	Mountpoint	FStype	Options	Dump
/dev/mirror/swap 0	none	swap	sw	0
/dev/mirror/root 1	/	ufs	rw	1
/dev/mirror/usr 2	/usr	ufs	rw	2
/dev/mirror/var 2	/var	ufs	rw	2
/dev/cd0 0	/cdrom	cd9660	ro,noauto	0

- ## /boot/loader.conf ## #####

```
geom_mirror_load="YES"
zfs_load="YES"
```

- ##### ZFS #

```
# echo 'zfs_enable="YES"' >> /etc/rc.conf
```

- ## [adduser\(8\)](#) ##### wheel ### ##### root#

- #####

```
##### reboot\(8\) #####
```

5. ZFS

```
##### FreeBSD ##### ##### remote console#
```

```
##### zpool\(8\) ##### zfs\(8\) ##### ZFS ##### ## mirrored pool#
```

```
# zpool create tank mirror /dev/ad[01]s1f
```

```
#####
```

```
# zfs create tank/ports
# zfs create tank/src
# zfs set compression=gzip tank/ports
# zfs set compression=on tank/src
# zfs set mountpoint=/usr/ports tank/ports
# zfs set mountpoint=/usr/src tank/src
```

FreeBSD ##### Remote Console

FreeBSD ## ZFS ##### FreeBSD Wiki ## [ZFS](#)

