



DOS and Fedora 8 Dual Boot (120)

DOS and Fedora 8 are installed on the same VM. $\,$ VMware Tools are then installed on the VM. $\,$

Requirements:

- DOS 6.21 image file http://www.allbootdisks.com/download/dos.html
 - Fedora 8 CD ISO files
 - http://iso.linuxquestions.org/
- VMWare Server 1.05
 <u>http://www.vmware.com/products/server/</u>

Desired Installation:

Location	Туре	Boot Code	Usage	Size
MBR		Microsoft		
/dev/sda1	Primary		DOS	20 MB
/dev/sda2	Primary	GRUB	/boot	100 MB
/dev/sda3	Primary		swap	256 MB
/dev/sda4	Extended			
/dev/sda5	Logical		/	4000 MB
free				624 MB



Create VM:

- Custom
- OS: Linux, Version: Other Linux 2.6.x kernel
- VM Name: Duke
- Access rights: Not private (uncheck)
- VM Account: User that powers on the VM
- # processors: One
- 256K memory
- Bridged networking
- SCSI Adapter: LSILogic
- Create a new virtual disk
- SCSI
- 5 GB drive, do not allocate space now (uncheck)

Copy floppy image of DOS 6.21 image to VM directory

Edit virtual machine settings

- Add a USB controller and floppy after VM has been created (if needed)
- Set floppy to: Use image (the DOS 6.21 floppy image file).
- Set floppy to: Connect at power on

Boot virtual machine (it will boot into DOS)

- Run fdisk at DOS A:\> prompt
- Create DOS partition

- o Primary
- Do not use the maximum available size
- o Make it 20 MB
- Make the new partition active
- Display partition information to check you have one small and active primary partition.
- Exit fdisk using Esc (and do a reboot)

Format new partition with a DOS file system.

- format c: /s /v:dos
- copy *.* c:
- c:
- dir | more

Power off VM

"Remove" floppy and insert Linux CD

- Edit VM settings
 - Set floppy to NOT Connect at power on (remove check)
 - Set CD-ROM to use ISO image (Fedora 8 ISO file)

Power on VM

- At this point you should boot into DOS and get a C: prompt
- This is because the default BIOS boot order is floppy, then hard drive, then CD. The floppy is not connected so the system is booted from the hard drive.
- Power off VM

Change BIOS boot order and continue boot

- Start up VM
- Immediately after the BIOS screen appears, click inside console and press F2 to enter SETUP. If you weren't fast enough and end up in DOS again, power off the VM and try again!
- Right arrow over to Boot tab, Enter to open
- Move CD-ROM drive above Hard Drive (see instructions under Item Specific Help)
- New boot order should be Floppy, then CD, then hard drive
- Exit BIOS saving changes.
- The Fedora CD should now boot up. Choose the first option to "Install or upgrade an existing system".

Fedora 8 Install

- No need to test the media if it has been used successfully before.
- Click "Next" all the way to drive partitioning taking the defaults
- Stop at Partitioning and choose "Create Custom Layout" then click Next

fedora ⁹	
Installation requires partitioning of your hard drive. By default, a partitioning	layout is chosen which is reasonable
for most users you can either choose to use this or create your own	
for most users, mu can either choose to use this or create your own.	~

Fedora 8 Install – Custom Partitions

- Look for the existing DOS partition (Type = vfat)
- Add new 100 MB ext2 /boot partition (force to be primary)
- Add new 256 MB swap partition (force to be primary)
- Add new 4000 MB ext3 / partition in the extended partition.
- Note we are leaving some free space at the end of the drive.
- Your custom partitions should look like:

Device	Label	Mount Point/ RAID/Volume	Туре	Format	Size (MB)	Start	End	
∀ Hard Drives								
▽ /dev/sda								
/dev/sda1			vfat		24	1	3	
/dev/sda2		/boot	ext2	1	102	4	16	
/dev/sda3			swap	1	259	17	49	
✓ /dev/sda4			Extended		4730	50	652	
/dev/sda5		/	ext3	1	4001	50	559	
Free			Free space		730	560	652	

Fedora 8 Install – Boot Loader

- Note we want to keep the DOS boot program in the MBR and install GRUB on /dev/sda2.
 - Add a second OS (label = DOS, device = /dev/sda1)
 - Make default boot Fedora
 - o Check the "Configure advanced boot loader options" and click Next

 The G No bo 	RUB boo ot loade	ו toader will be installed on /dev/sda. r will be installed.	
You can c operating by defau	onfigure g systen lt, selec	the boot loader to boot other operating systems by selecting from the li ns that was not automatically detected, click 'Add.' To change the operati t 'Default' next to the desired operating system.	st. To add an ng system booted
Default	Label	Device	Add
	DOS	/dev/sdal	Edit
	Fedora	/dev/sda5	Delete
A boot lo security, <u>U</u> se a	ader pas it is rec boot loa	sword prevents users from changing options passed to the kernel. For greommended that you set a password. Inder password Change password	ater system
🗹 Config	gure adv	anced boot loader options	

On next screen, choose: Install Boot Loader record on: /dev/sda2 (not the MBR)

Fedora 8 Install - Network

- Use DHCP for network settings.
- Manually set hostname to duke.localdomain

Fedora 8 Install – set root password to what is shown on whiteboard.

Fedora 8 Install – keep it small

- Remove check from: Office and Productivity (and any others)
- Select: Customize Later

Fedora 8 – Install

- 821 packages and some 30 minutes later
- Be sure and remove (edit) your virtual CD settings before rebooting:
 - \circ $\,$ CD-ROM should not be connected or set to connect at power on

Test the system

- The first partition is still active so system will boot to DOS
- Use DOS fdisk to set the second partition as active
- Reboot into Fedora 8
- Enable the firewall and check SSH as a trusted service
- Set SELinux to permissive
- Make a user named cis191 using password on whiteboard

VMware Housekeeping

• Take a snapshot of your fresh install. You can always revert back to a snapshot later if you mess up your system.

VMware Tools

• VMware nags you when you don't have VMware Tools installed. VMware Tools do provide some nice benefits so lets install them.



- On the VMware Server Console, select Install "VMware Tools..." under the VM menu.
- When the VMware Tools CD gets mounted double-click on the VMwareTools-1.0.5-80187.i386.rpm icon.



- Install the RPM using the RPM GUI tool (accept the warning).
- Bring up a terminal (Applications > System Tools > Terminal)
- Become superuser:

su -

- Install the c compiler and kernel development packages: yum install gcc kernel-devel
- Look for the directory with the kernel headers:
 ls -d /usr/src/kernels/\$(uname -r)*/include)
- Run the VMware configuration tool: vmware-config-tools.pl
- Take the defaults when building modules. Note: vmhgfs will not be built (we are OK with that and will leave for a rainy day to solve). At the end select 800x600 for VGA resolution (this can be changed later if desired).
- Restart the network:
 service network restart
- No more nagging about VMware Tools:



• Note, you may have to reconfigure the X server on the next boot. If so just enter the root password and take the defaults.

Summary

You now have dual boot VM with DOS in the first partition and Linux in the other partitions. You can select the OS to boot when you see the GRUB screen and QUICKLEY hit any key to enter the GRUB boot selection menu.



You can also boot into DOS by using fdisk to make the first partition active again.

Here is the resulting system:

Partition Table

[root@duke ~]# fdisk -1

Disk /dev/sda: 5368 MB, 5368709120 bytes 255 heads, 63 sectors/track, 652 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes Disk identifier: 0x0003b76d

Device	Boot	Start	End	Blocks	Id	System
/dev/sda1		1	3	24066	4	FAT16 <32M
/dev/sda2	*	4	16	104422+	83	Linux
/dev/sda3		17	49	265072+	82	Linux swap / Solaris
/dev/sda4		50	652	4843597+	5	Extended
/dev/sda5		50	559	4096543+	83	Linux
[root@duke	~1#					

Mounts

[root@duke ~]# mounts -bash: mounts: command not found [root@duke ~]# mount /dev/sda5 on / type ext3 (rw) proc on /proc type proc (rw) sysfs on /sys type sysfs (rw) devpts on /dev/pts type devpts (rw,gid=5,mode=620) /dev/sda2 on /boot type ext2 (rw) tmpfs on /dev/shm type tmpfs (rw) none on /proc/sys/fs/binfmt_misc type binfmt_misc (rw) sunrpc on /var/lib/nfs/rpc_pipefs type rpc_pipefs (rw) [root@duke ~]#

/boot

[root@duke ~]# ls /boot config-2.6.23.1-42.fc8 initrd-2.6.23.1-42.fc8.img System.map-2.6.23.1-42.fc8 grub lost+found vmlinuz-2.6.23.1-42.fc8 [root@duke ~]#

/boot /grub

[root@duke ~]#	is /boot/grub/		
device.map	grub.conf	minix_stage1_5	stage2
e2fs_stage1_5	iso9660_stage1_5	reiserfs_stage1_5	ufs2_stage1_5
fat_stage1_5	jfs_stage1_5	splash.xpm.gz	vstafs_stage1_5
ffs_stage1_5	menu.lst	stage1	xfs_stage1_5
[root@duke ~]#			

grub.conf

```
[root@duke ~]# cat /boot/grub/grub.conf
# grub.conf generated by anaconda
#
# Note that you do not have to rerun grub after making changes to this file
# NOTICE: You have a /boot partition. This means that
# all kernel and initrd paths are relative to /boot/, eg.
# root (hd0,1)
```

```
#
           kernel /vmlinuz-version ro root=/dev/sda5
           initrd /initrd-version.img
#
#boot=/dev/sda2
default=0
timeout=5
splashimage=(hd0,1)/grub/splash.xpm.gz
hiddenmenu
title Fedora (2.6.23.1-42.fc8)
        root (hd0,1)
        kernel /vmlinuz-2.6.23.1-42.fc8 ro root=LABEL=/1 rhgb quiet
        initrd /initrd-2.6.23.1-42.fc8.img
title DOS
        rootnoverify (hd0,0)
        chainloader +1
[root@duke ~]#
```

Volume name of /dev/sda5 (used as LABEL on kernel command) [root@duke ~]# dumpe2fs /dev/sda5 | grep volume dumpe2fs 1.40.2 (12-Jul-2007) Filesystem volume name: /1 [root@duke ~]#

MBR boot code (conventional)

```
[root@duke ~]# xxd /dev/sda | more
0000010: bf00 06b9 0001 f2a5 eald 0600 00be be07
                                      . . . . . . . . . . . . . . . .
0000020: b304 803c 8074 0e80 3c00 751c 83c6 10fe
                                      ...<.t..<.u....
0000030: cb75 efcd 188b 148b 4c02 8bee 83c6 10fe
                                      .u....L.....
0000040: cb74 1a80 3c00 74f4 be8b 06ac 3c00 740b
                                      .t..<.t....<.t.
0000050: 56bb 0700 b40e cd10 5eeb f0eb febf 0500 V.......
0000060: bb00 7cb8 0102 57cd 135f 730c 33c0 cd13
                                      ..|...W.._s.3...
0000070: 4f75 edbe a306 ebd3 bec2 06bf fe7d 813d Ou.....}.=
0000080: 55aa 75c7 8bf5 ea00 7c00 0049 6e76 616c
                                      U.u....|..Inval
0000090: 6964 2070 6172 7469 7469 6f6e 2074 6162
                                      id partition tab
00000a0: 6c65 0045 7272 6f72 206c 6f61 6469 6e67
                                      le.Error loading
00000b0: 206f 7065 7261 7469 6e67 2073 7973 7465
                                      operating syste
00000c0: 6d00 4d69 7373 696e 6720 6f70 6572 6174
                                     m.Missing operat
00000d0: 696e 6720 7379 7374 656d 0000 0000 0000
                                      ing system.....
. . . . . . . . . . . . . . . .
. . . . . . . . . . . . . . . .
. . . . . . . . . . . . . . . .
. . . . . . . . . . . . . . . .
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. . . . . . . . . . . . . . . .
. . . . . . . . . . . . . . . .
00001b0: 0000 0000 0000 0000 6db7 0300 0000 0001
                                     . . . . . . . . . m . . . . . . .
00001c0: 0100 04fe 3f02 3f00 0000 04bc 0000 8000
                                     ....?.?......
00001d0: 0103 83fe 3f0f 43bc 0000 cd2f 0300 0000
                                     ....?.C..../....
00001e0: 0110 82fe 3f30 10ec 0300 e116 0800 0000
                                     ....?0.......
```

Boot code in /dev/sda2 partition (GRUB)

[root@dul	ce ~]‡	‡ xxd	/dev/	/sda2	moi	ce	-	-	
:000000	eb48	9000	0000	0000	0000	0000	0000	0000	.H
0000010:	0000	0000	0000	0000	0000	0000	0000	0000	
0000020:	0000	0000	0000	0000	0000	0000	0000	0000	
0000030:	0000	0000	0000	0000	0000	0000	0000	0302	• • • • • • • • • • • • • • • • • •
0000040:	8000	0080	4518	0100	0008	fa90	90£6	c280	E
0000050:	7502	b280	ea59	7c00	0031	c08e	d88e	d0bc	uY 1
0000060:	0020	fba0	407c	3cff	7402	88c2	52be	7f7d	• •••@ <••t•••R•••}
0000070:	e834	01£6	c280	7454	b441	bbaa	55cd	135a	.4tT.AUZ
0000080:	5272	4981	fb55	aa75	43a0	417c	84c0	7505	RrIU.uC.A u.
0000090:	83e1	0174	3766	8b4c	10be	057c	c644	ff01	t7f.L .D
00000a0:	668b	1e44	7cc7	0410	00c7	4402	0100	6689	fD Df.
0000b0:	5c08	c744	0600	7066	31c0	8944	0466	8944	\Dpf1D.f.D
00000c0:	0cb4	42cd	1372	05bb	0070	eb7d	b408	cd13	Brp.}
00000d0:	730a	f6c2	800£	84ea	00e9	8d00	be05	7cc6	s
00000e0:	44ff	0066	31c0	88£0	4066	8944	0431	d288	Df1@f.D.1
00000£0:	cac1	e202	88e8	88£4	4089	4408	31c0	88d0	@.D.1
0000100:	c0e8	0266	8904	66a1	447c	6631	d266	£734	ff.D f1.f.4
0000110:	8854	0a66	31d2	66£7	7404	8854	0b89	440c	.T.f1.f.tTD.
0000120:	3b44	087d	3c8a	540d	c0e2	068a	4c0a	fec1	;D.}<.TL
0000130:	08d1	8a6c	0c5a	8a74	0bbb	0070	8ec3	31db	l.Z.tp1.
0000140:	b801	02cd	1372	2a8c	c38e	0648	7c60	1eb9	H `
0000150:	0001	8edb	31£6	31ff	fcf3	a51f	61ff	2642	1.1a.&B
0000160:	7cbe	857d	e840	00eb	0ebe	8a7d	e838	00eb	}.@}.8
0000170:	06be	947d	e830	00be	997d	e82a	00eb	fe47	}.0}.*G
0000180:	5255	4220	0047	656£	6d00	4861	7264	2044	RUB .Geom.Hard D
0000190:	6973	6b00	5265	6164	0020	4572	726£	7200	isk.Read. Error.
00001a0:	bb01	00b4	0ecd	10ac	3c00	75£4	c300	0000	
00001b0:	0000	0000	0000	0000	0000	0000	0000	0000	• • • • • • • • • • • • • • • • •
00001c0:	0000	0000	0000	0000	0000	0000	0000	0000	• • • • • • • • • • • • • • • •
00001d0:	0000	0000	0000	0000	0000	0000	0000	0000	• • • • • • • • • • • • • • • •
00001e0:	0000	0000	0000	0000	0000	0000	0000	0000	• • • • • • • • • • • • • • • • • •
00001£0:	0000	0000	0000	0000	0000	0000	0000	55aa	U.

Installing VMware Tools

```
[root@duke ~]# rpm -qa | grep gcc
libgcc-4.1.2-33
[root@duke ~]# rpm -qa | grep kernel
kernel-2.6.23.1-42.fc8
[root@duke ~]# yum install gcc kernel-devel
Setting up Install Process
Parsing package install arguments
Resolving Dependencies
--> Running transaction check
---> Package kernel-devel.i686 0:2.6.23.1-42.fc8 set to be updated
---> Package gcc.i386 0:4.1.2-33 set to be updated
--> Processing Dependency: glibc-devel >= 2.2.90-12 for package: gcc
--> Running transaction check
---> Package glibc-devel.i386 0:2.7-2 set to be updated
```

--> Processing Dependency: glibc-headers for package: glibc-devel --> Processing Dependency: glibc-headers = 2.7-2 for package: glibc-devel --> Running transaction check ---> Package glibc-headers.i386 0:2.7-2 set to be updated --> Processing Dependency: kernel-headers for package: glibc-headers --> Processing Dependency: kernel-headers >= 2.2.1 for package: glibc-headers --> Running transaction check --> Package kernel-headers.i386 0:2.6.23.1-42.fc8 set to be updated --> Finished Dependency Resolution

Dependencies Resolved

=======================================		================================		=======================================	======
Package	Arch	Version	Reposit	ory	Size
Installing:					
acc	i386	4.1.2-33	fedora		5.2 M
kernel-devel	i686	2.6.23.1-42	.fc8 fedora		4.8 M
Installing for	dependencies:				
alibc-devel	i 386	2.7-2	fedora		2.0 M
glibc-headers	i 386	2.7-2	fedora		609 k
kernel-header	s i386	2.6.23.1-42	.fc8 fedora		669 k
Transaction Su	mmary				
=================	=======================================		==================	==================	======
Install 5	Package(s)				
Update 0	Package(s)				
Remove 0	Package(s)				
Total download	size: 13 M				
Is this ok [y/]	N]: Y				
Downloading Pa	ckages:				
(1/5): kernel-1	headers-2.6 100%	======================================	======= 6	69 kB 00	0:09
(2/5): glibc-de	evel-2.7-2. 100%	=======================================	======= 2	2.0 MB 00	0:17
(3/5): gcc-4.1	.2-33.i386. 100%	=======================================	======= 5	.2 MB 00	0:42
(4/5): kernel-	devel-2.6.2 100%	=======================================	======= 4	.8 MB 0(0:34
(5/5): glibc-h	eaders-2.7- 100%	======================================	======= 6	09 kB 0(0:06
warning: rpmts	HdrFromFdno: He	ader V3 DSA signat	ture: NOKEY,	key ID 4f2a	a6fd2
Importing GPG	key 0x4F2A6FD2 "	Fedora Project <f< td=""><td>edora@redhat.</td><td>com>" from</td><td></td></f<>	edora@redhat.	com>" from	
/etc/pki/rpm-g	pg/RPM-GPG-KEY-f	edora			
Is this ok [v/]	Nl: v				
Importing GPG	kev 0xDB42A60E "	Red Hat, Inc <sec< td=""><td>uritv@redhat.</td><td>com>" from</td><td></td></sec<>	uritv@redhat.	com>" from	
/etc/pki/rpm-g	pg/RPM-GPG-KEY				
Is this ok [v/]	N]: V				
Running rom ch	eck debug				
Running Transa	ction Test				
Finished Trans	action Test				
Transaction Te	st Succeeded				
Running Transa	ction				
Tngtalling.	kernel-headers	####	*****	*########	1/51
Installing.	aliba-beaders	****			2/51
Installing.	alibe-devel	****			3/51
Installing.	bernel_devel	####	**************************************	*######### \$#########	2/5] 4/51
Installing.	Retuel-devel	****	**************************************	·########## •#########	1/5] 5/5]
inscalling:	300	****	~~ ~~~~~~~		

Installed: gcc.i386 0:4.1.2-33 kernel-devel.i686 0:2.6.23.1-42.fc8 Dependency Installed: glibc-devel.i386 0:2.7-2 glibc-headers.i386 0:2.7-2

kernel-headers.i386 0:2.6.23.1-42.fc8 Complete! [root@duke ~]# [root@duke ~]#uname -r 2.6.23.1-42.fc8 [root@duke ~] # rpm -q kernel-devel kernel-devel-2.6.23.1-42.fc8 [root@duke ~]# ls -d /usr/src/kernels/\$(uname -r)*/include /usr/src/kernels/2.6.23.1-42.fc8-i686/include [root@duke ~]# rpm -q kernel-devel kernel-devel-2.6.23.1-42.fc8 [root@duke ~]# [root@duke ~]# vmware-config-tools.pl Stopping VMware Tools services in the virtual machine: Guest operating system daemon: [OK] Trying to find a suitable vmhgfs module for your running kernel. None of the pre-built vmhgfs modules for VMware Tools is suitable for your running kernel. Do you want this program to try to build the vmhgfs module for your system (you need to have a C compiler installed on your system)? [yes] Using compiler "/usr/bin/gcc". Use environment variable CC to override. What is the location of the directory of C header files that match your running kernel? [/lib/modules/2.6.23.1-42.fc8/build/include] Extracting the sources of the vmhgfs module. Building the vmhgfs module. Using 2.6.x kernel build system. make: Entering directory `/tmp/vmware-config0/vmhgfs-only' make -C /lib/modules/2.6.23.1-42.fc8/build/include/.. SUBDIRS=\$PWD SRCROOT=\$PWD/. modules make[1]: Entering directory `/usr/src/kernels/2.6.23.1-42.fc8-i686' CC [M] /tmp/vmware-config0/vmhgfs-only/cpName.o CC [M] /tmp/vmware-config0/vmhgfs-only/cpNameLinux.o CC [M] /tmp/vmware-config0/vmhgfs-only/dev.o CC [M] /tmp/vmware-config0/vmhgfs-only/driver.o /tmp/vmware-config0/vmhgfs-only/driver.c: In function 'HgfsChangeFileAttributes': /tmp/vmware-config0/vmhgfs-only/driver.c:763: error: `struct inode' has no member named `i_blksize' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsInitializeInode': /tmp/vmware-config0/vmhgfs-only/driver.c:835: error: `struct inode' has no member named 'u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsIget': /tmp/vmware-config0/vmhgfs-only/driver.c:884: error: `struct inode' has no member named `u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsCreate':

/tmp/vmware-config0/vmhgfs-only/driver.c:1535: error: `struct inode' has no member named 'u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsLookup': /tmp/vmware-config0/vmhgfs-only/driver.c:1635: error: `struct inode' has no member named 'u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsMkdir': /tmp/vmware-config0/vmhgfs-only/driver.c:1727: error: `struct inode' has no member named `u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsDelete': /tmp/vmware-config0/vmhgfs-only/driver.c:1854: error: `struct inode' has no member named 'u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsRename': /tmp/vmware-config0/vmhgfs-only/driver.c:2046: error: `struct inode' has no member named 'u' /tmp/vmware-config0/vmhgfs-only/driver.c:2048: error: `struct inode' has no member named 'u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsRevalidate': /tmp/vmware-config0/vmhgfs-only/driver.c:2288: error: `struct inode' has no member named `u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsSetattr': /tmp/vmware-config0/vmhgfs-only/driver.c:2425: error: `struct inode' has no member named 'u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsOpen': /tmp/vmware-config0/vmhgfs-only/driver.c:2801: error: `struct inode' has no member named 'u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsDirOpen': /tmp/vmware-config0/vmhgfs-only/driver.c:3414: error: `struct inode' has no member named 'u' /tmp/vmware-config0/vmhgfs-only/driver.c: In function `HgfsClearInode': /tmp/vmware-config0/vmhgfs-only/driver.c:4105: error: `struct inode' has no member named 'u' make[2]: *** [/tmp/vmware-config0/vmhgfs-only/driver.o] Error 1 make[1]: *** [_module_/tmp/vmware-config0/vmhgfs-only] Error 2 make[1]: Leaving directory `/usr/src/kernels/2.6.23.1-42.fc8-i686' make: *** [vmhgfs.ko] Error 2 make: Leaving directory `/tmp/vmware-config0/vmhgfs-only' Unable to build the vmhgfs module. The filesystem driver (vmhgfs module) is used only for the shared folder feature. The rest of the software provided by VMware Tools is designed to work independently of this feature. If you wish to have the shared folders feature, you can install the driver by running vmware-config-tools.pl again after making sure that gcc, binutils, make and the kernel sources for your running kernel are installed on your machine. These packages are available on your distribution's installation CD. [Press Enter key to continue] 31429 0 pcnet32 Unloading pcnet32 module

Trying to find a suitable vmxnet module for your running kernel.

None of the pre-built vmxnet modules for VMware Tools is suitable for your running kernel. Do you want this program to try to build the vmxnet module for

your system (you need to have a C compiler installed on your system)? [yes] Extracting the sources of the vmxnet module. Building the vmxnet module. Using 2.6.x kernel build system. make: Entering directory `/tmp/vmware-config1/vmxnet-only' make -C /lib/modules/2.6.23.1-42.fc8/build/include/.. SUBDIRS=\$PWD SRCROOT=\$PWD/. modules make[1]: Entering directory `/usr/src/kernels/2.6.23.1-42.fc8-i686' CC [M] /tmp/vmware-config1/vmxnet-only/vmxnet.o /tmp/vmware-config1/vmxnet-only/vmxnet.c: In function `vmxnet_open': /tmp/vmware-config1/vmxnet-only/vmxnet.c:671: warning: `deprecated_irq_flag' is deprecated (declared at include/linux/interrupt.h:64) /tmp/vmware-config1/vmxnet-only/vmxnet.c:671: warning: passing argument 2 of `request_irq' from incompatible pointer type Building modules, stage 2. MODPOST 1 modules CC /tmp/vmware-config1/vmxnet-only/vmxnet.mod.o LD [M] /tmp/vmware-config1/vmxnet-only/vmxnet.ko make[1]: Leaving directory `/usr/src/kernels/2.6.23.1-42.fc8-i686' cp -f vmxnet.ko ./../vmxnet.o make: Leaving directory `/tmp/vmware-config1/vmxnet-only' The module loads perfectly in the running kernel. Detected X.org version 1.3. No drivers for X.org version: 1.3. Please choose one of the following display sizes (1 - 13): "640x480" [1] "800x600" [2] "1024x768" [3] "1152x864" [4] [5] "1280x800" "1152x900" [6] [7] "1280x1024" [8] "1376x1032" [9] "1400x1050" [10] "1680x1050" [11] "1600x1200" [12] "1920x1200" [13] "2364x1773" Please enter a number between 1 and 13: [3] 2 Starting VMware Tools services in the virtual machine: Switching to guest configuration: [OK] Guest vmxnet fast network device: 1 Г OK

[OK] DMA setup: [OK] Guest operating system daemon: The configuration of VMware Tools 1.0.5 build-80187 for Linux for this running kernel completed successfully. You must restart your X session before any mouse or graphics changes take effect. You can now run VMware Tools by invoking the following command: "/usr/bin/vmware-toolbox" during an X session. To make use of the vmxnet driver you will need to rebooot. Enjoy, --the VMware team [root@duke ~]# [root@duke ~]# service network status Configured devices: lo eth0 Currently active devices: [root@duke ~]# ifconfig [root@duke ~]# service network restart Shutting down loopback interface: [OK] Bringing up loopback interface: OK 1 Bringing up interface eth0: Determining IP information for eth0... done. [OK] [root@duke ~]# ifconfig eth0 Link encap:Ethernet HWaddr 00:0C:29:C3:13:B6 inet addr:192.168.0.30 Bcast:192.168.0.255 Mask:255.255.255.0 inet6 addr: fe80::20c:29ff:fec3:13b6/64 Scope:Link UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:33 errors:0 dropped:0 overruns:0 frame:0 TX packets:24 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000 RX bytes:4320 (4.2 KiB) TX bytes:4391 (4.2 KiB) Interrupt:18 Base address:0x1424 10 Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0 inet6 addr: ::1/128 Scope:Host UP LOOPBACK RUNNING MTU:16436 Metric:1 RX packets:1770 errors:0 dropped:0 overruns:0 frame:0 TX packets:1770 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:2785764 (2.6 MiB) TX bytes:2785764 (2.6 MiB) [root@duke ~]#