

Fedora 9 Install (114)

Fedora 9 installation with custom partitions.

Requirements:

- Fedora 9 DVD ISO files
<http://iso.linuxquestions.org/>
- VMWare Server 1.05 or higher
<http://www.vmware.com/products/server/>

Create VM:

- Custom
- OS: Linux, Version: RHEL 5
- Name: Fedora-9
- # processors: One
- 512K memory
- Bridged networking
- One SCSI 5 GB drive
- One floppy drive
- One USB controller

Desired Installation:

Location	Type	Boot Code	Usage	Size
MBR		Microsoft		
/dev/sda1	Primary	GRUB	boot	100 MB
/dev/sda2	Primary		/	3.2 GB
/dev/sda3	Primary		swap	512 MB
/dev/sda4	Extended			
/dev/sda5	logical		/var	400 MB
/dev/sda6	logical		/home	200 MB

DVD and Floppy:

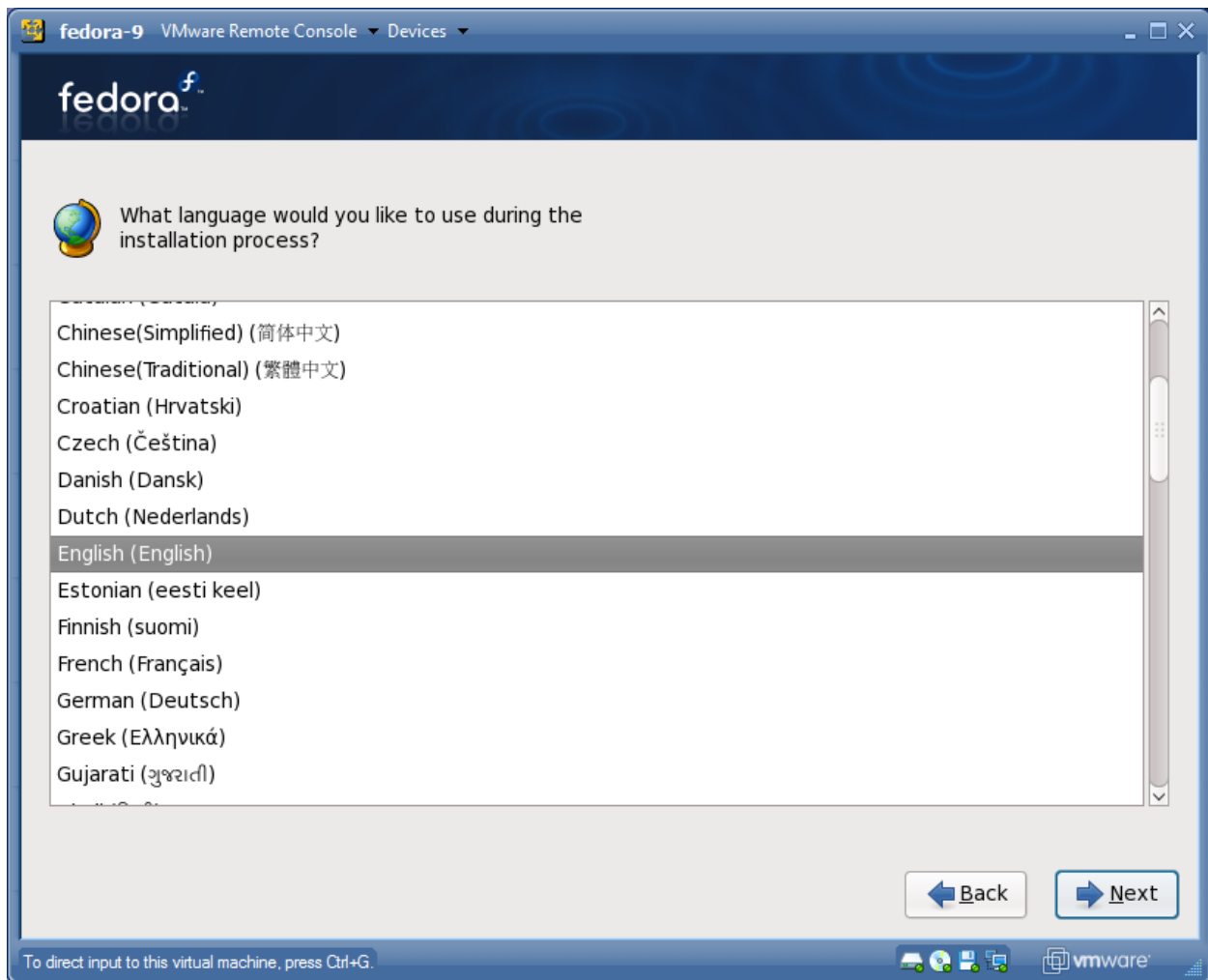
- Edit VM settings
- Disconnect floppy (Remove check: Connect at power on, Use physical drive)
- "Insert" Linux Installation DVD (Check: Connect at power on, Use ISO image:)

browse to Fedora DVD ISO file)

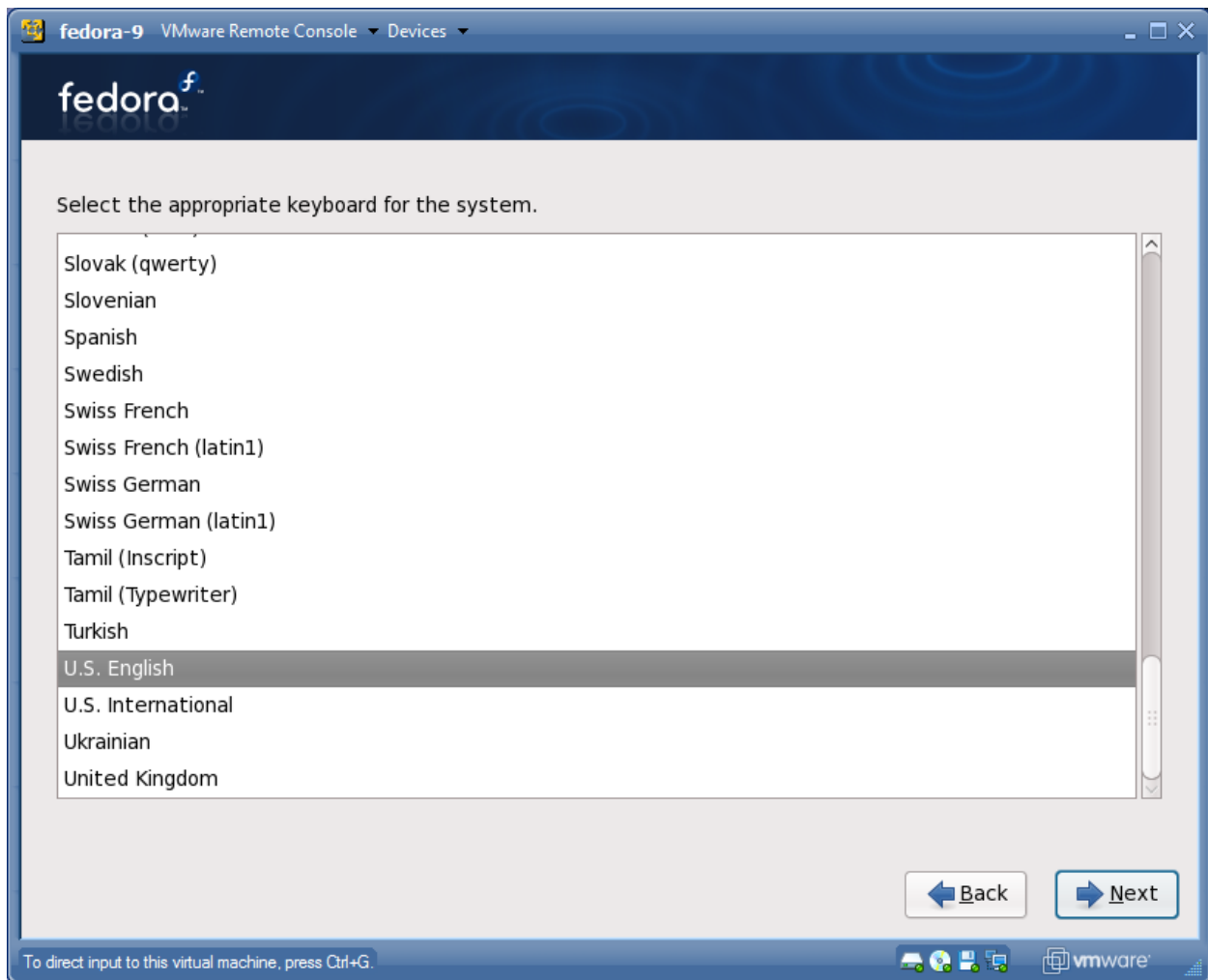
Power on VM:



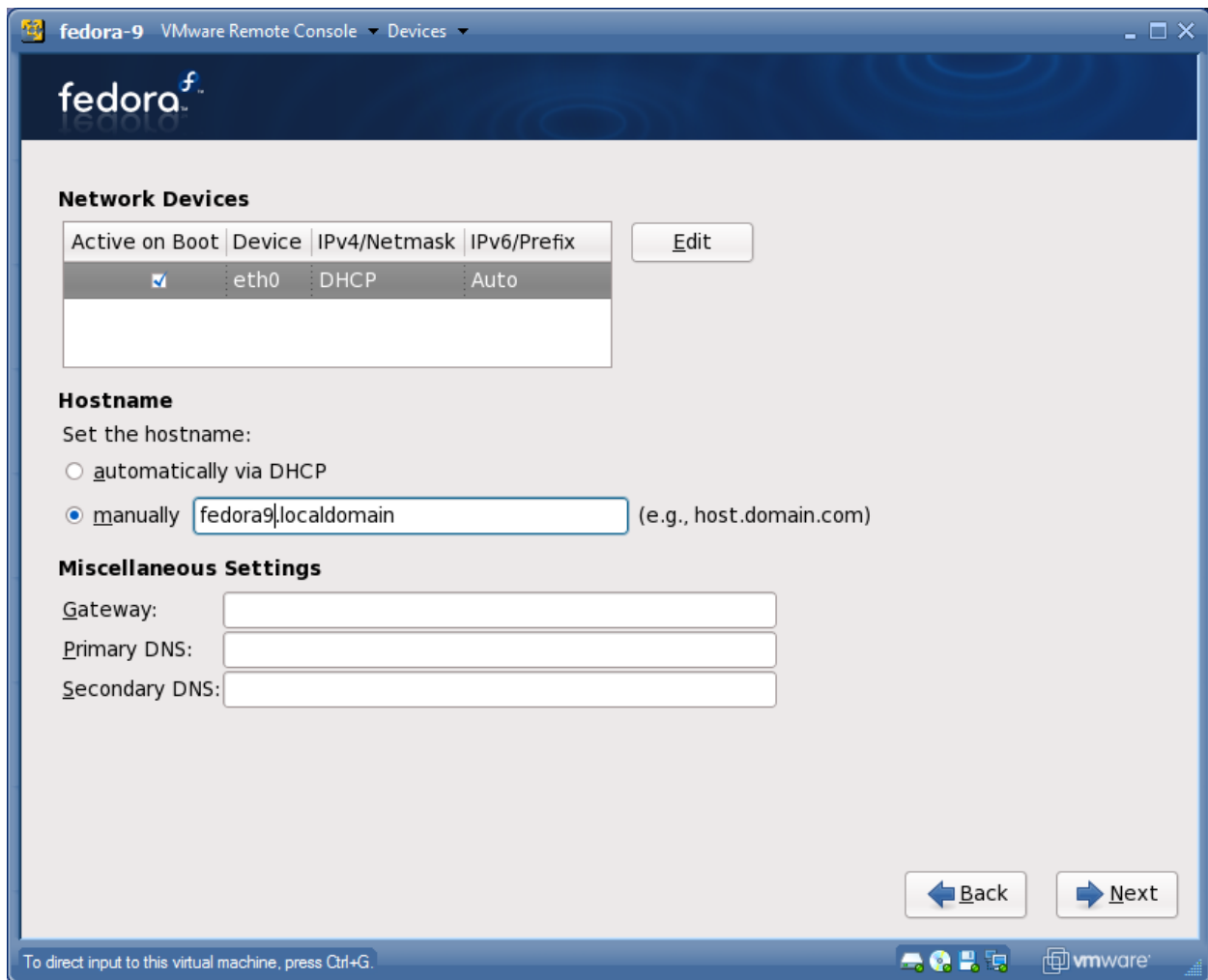
- Next



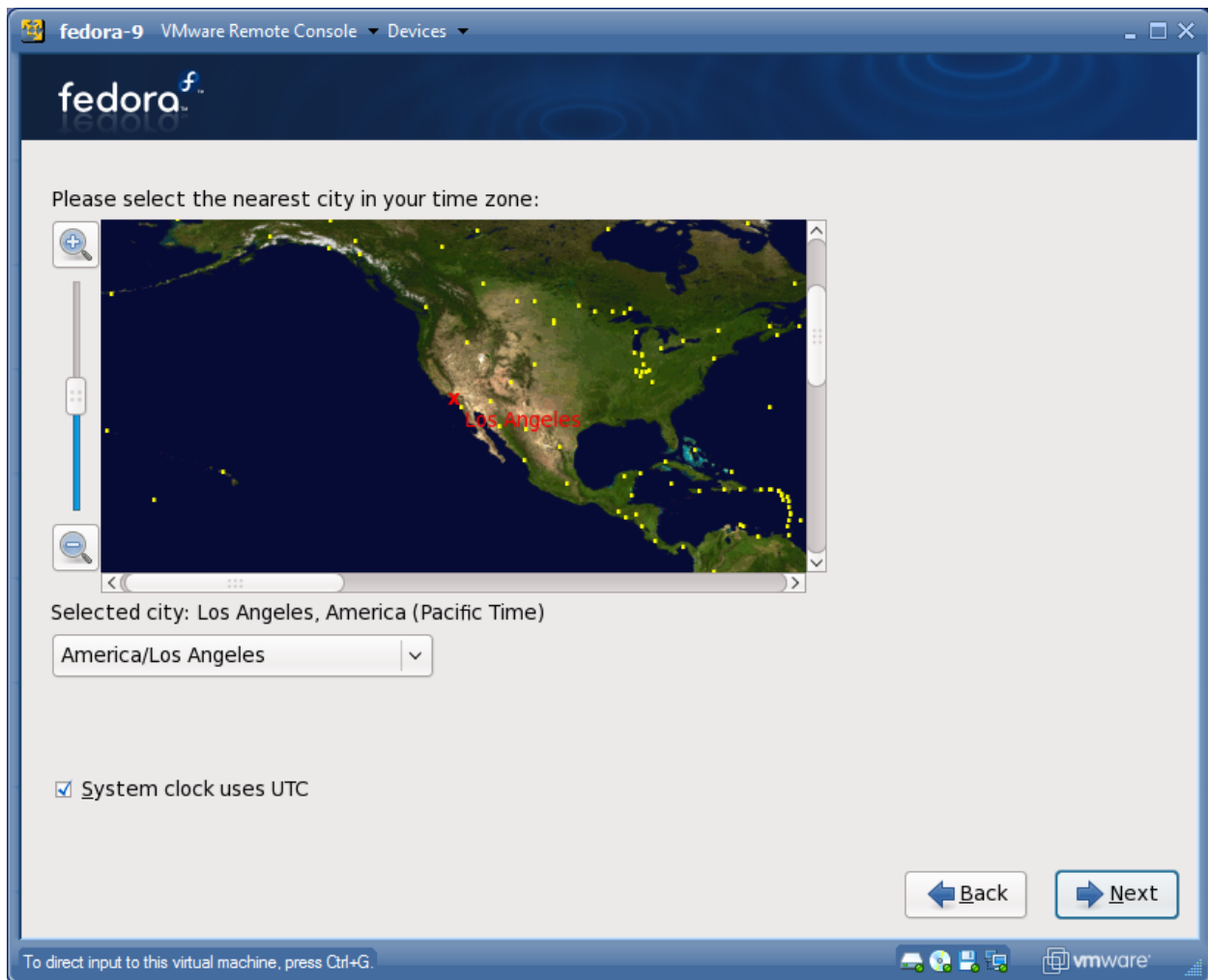
- Next



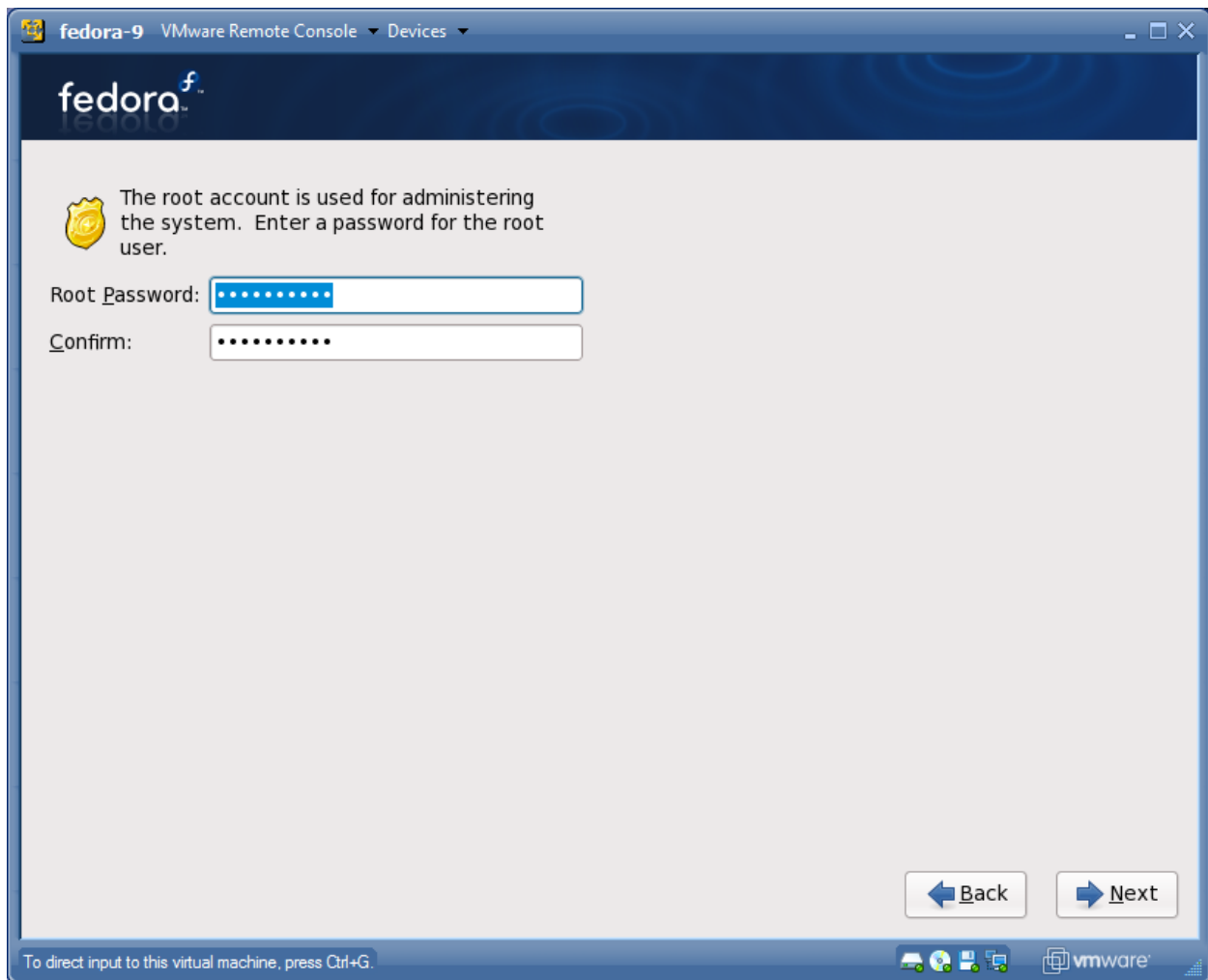
- Next



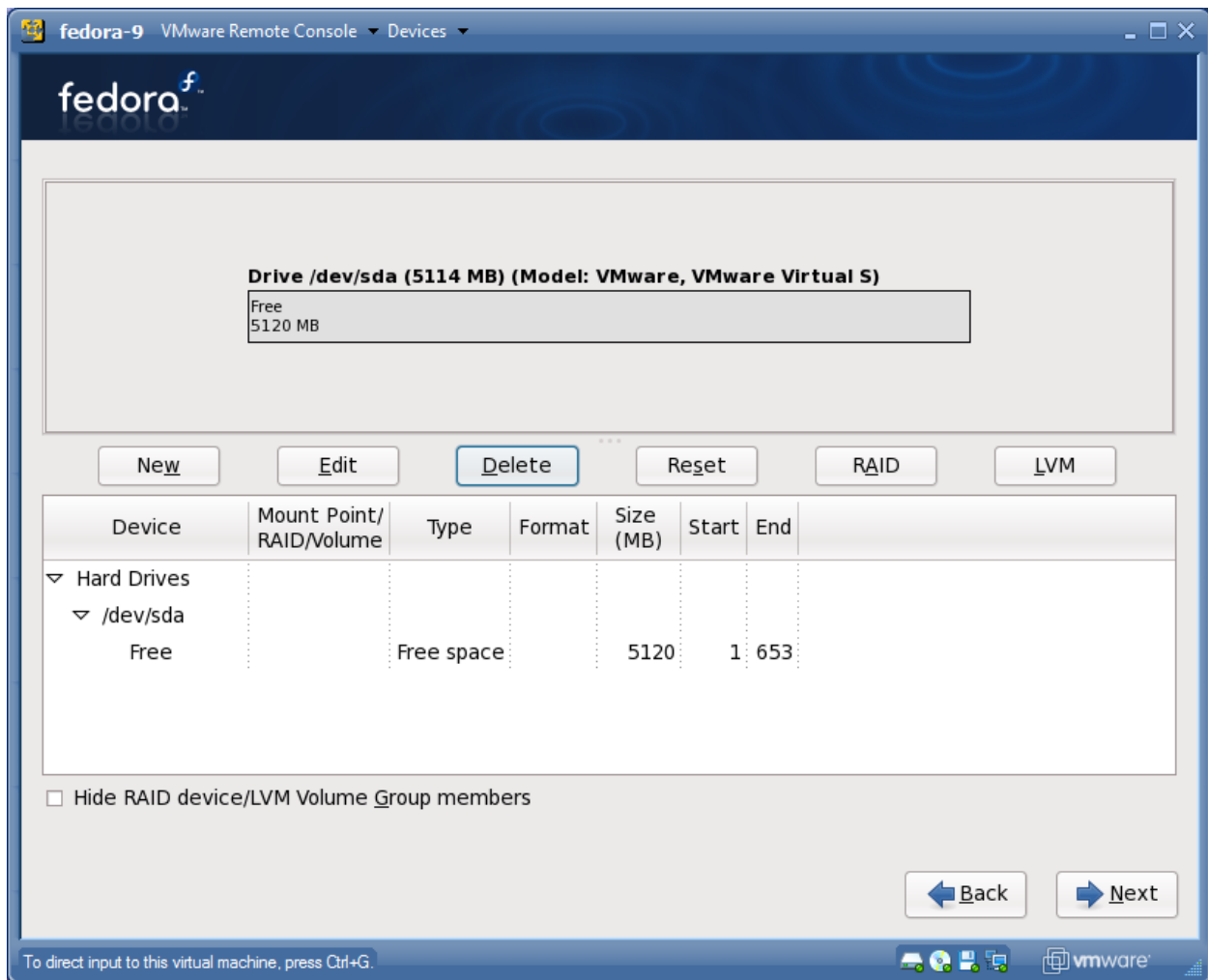
- Next



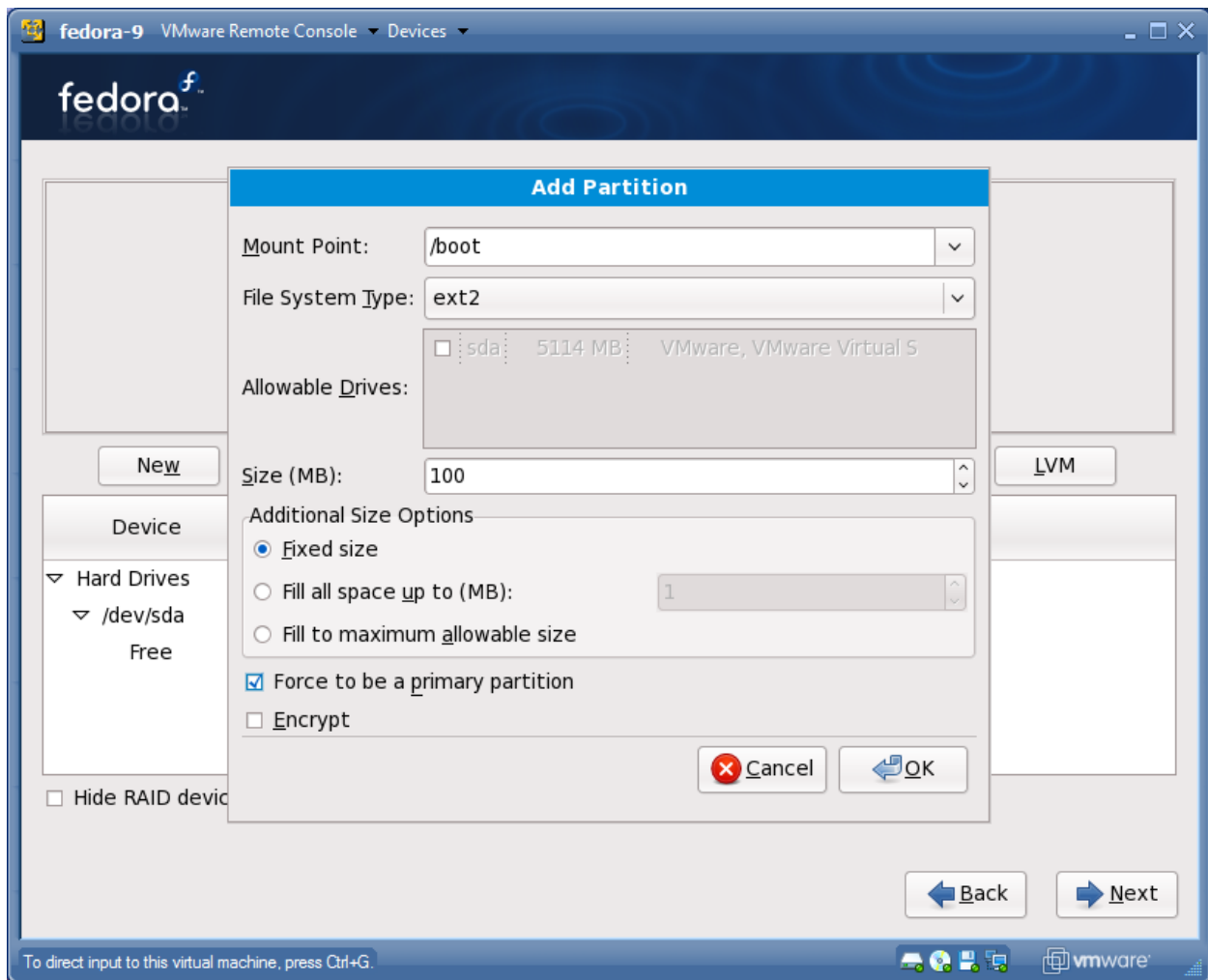
- Next



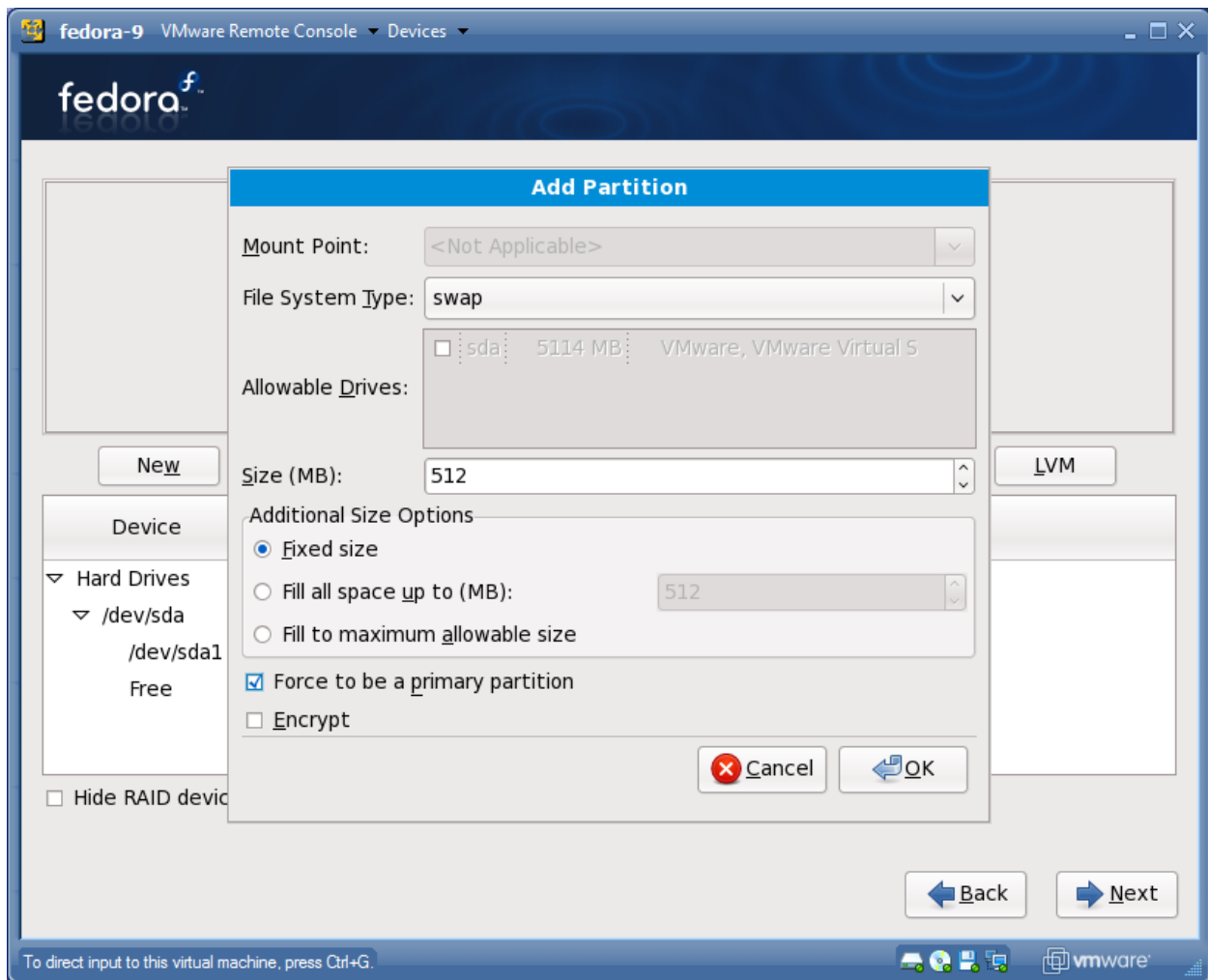
- Choose Create custom layout
- Next



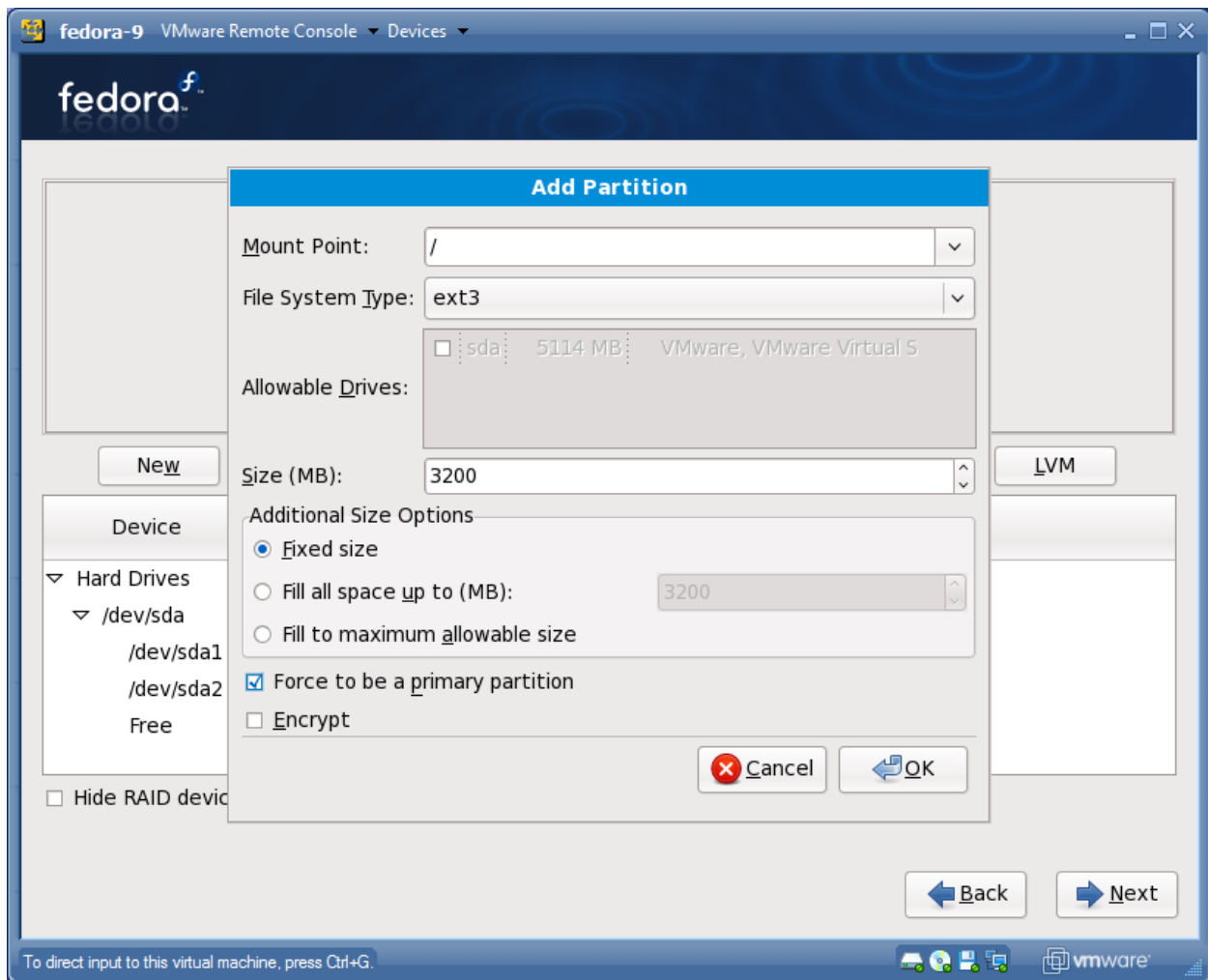
- Click **New** button



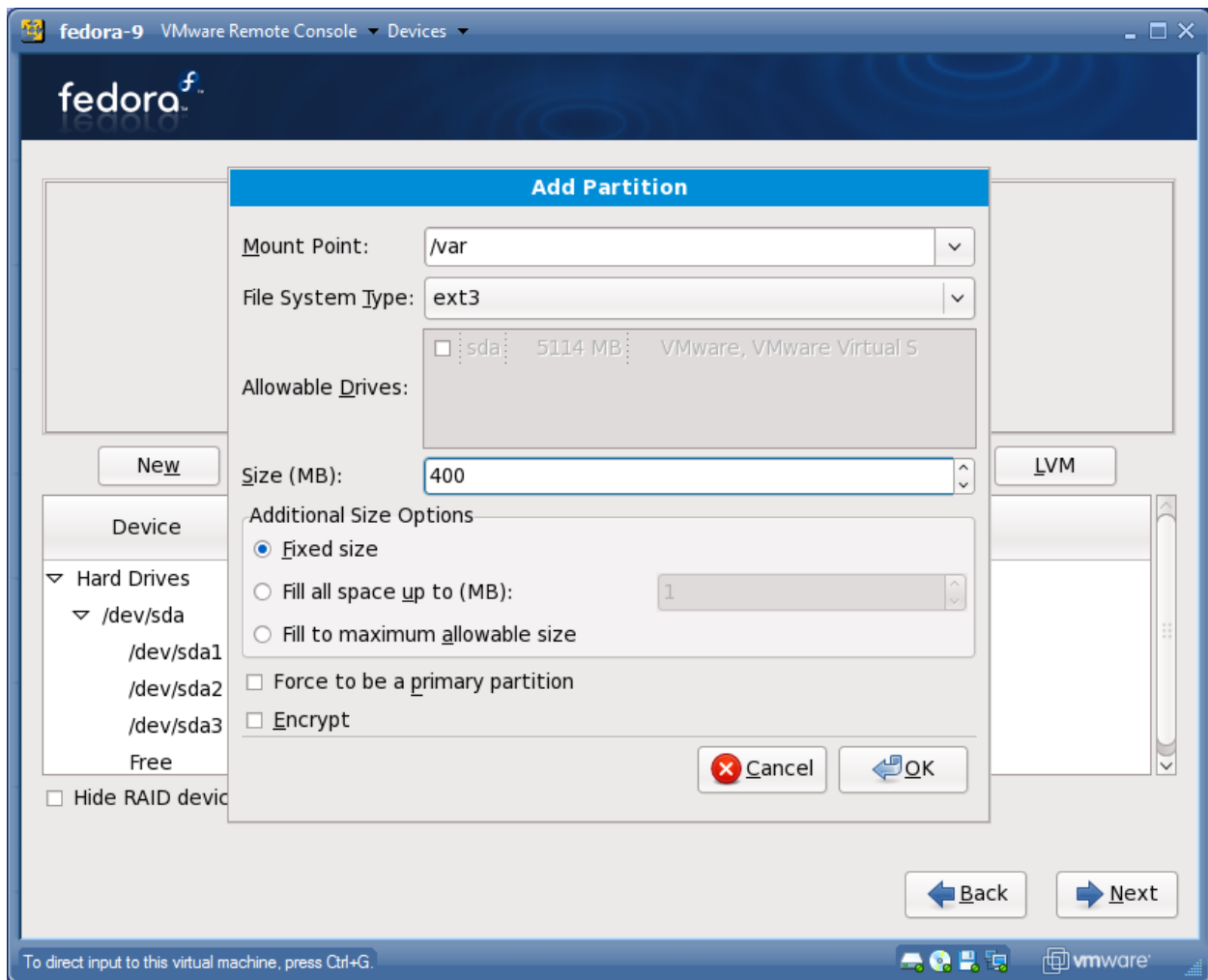
- Click New button
- /boot
- ext2
- 100 MB
- Check: Force to be a primary partition



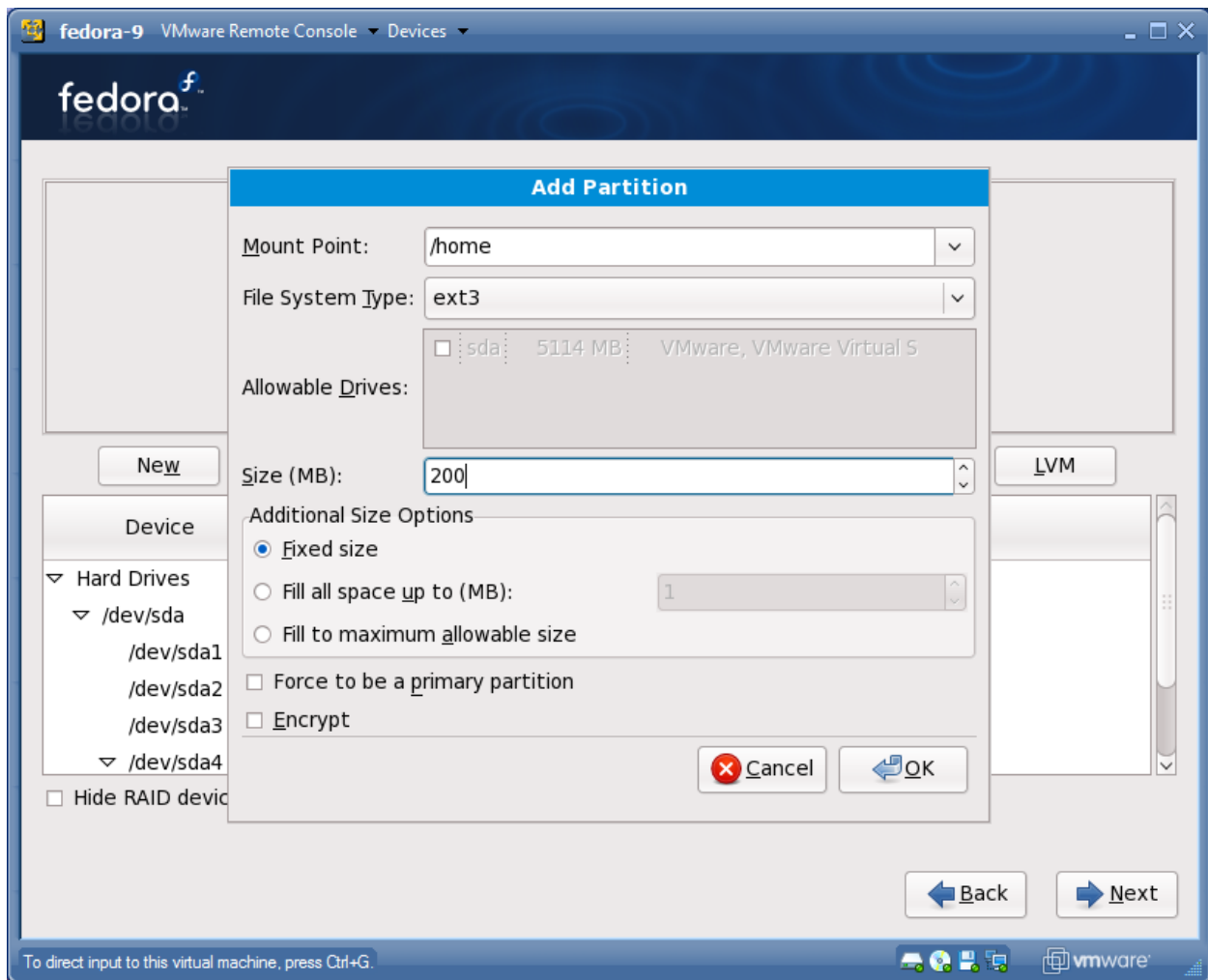
- Click New
- swap
- 512
- Check: Force to be a primary partition



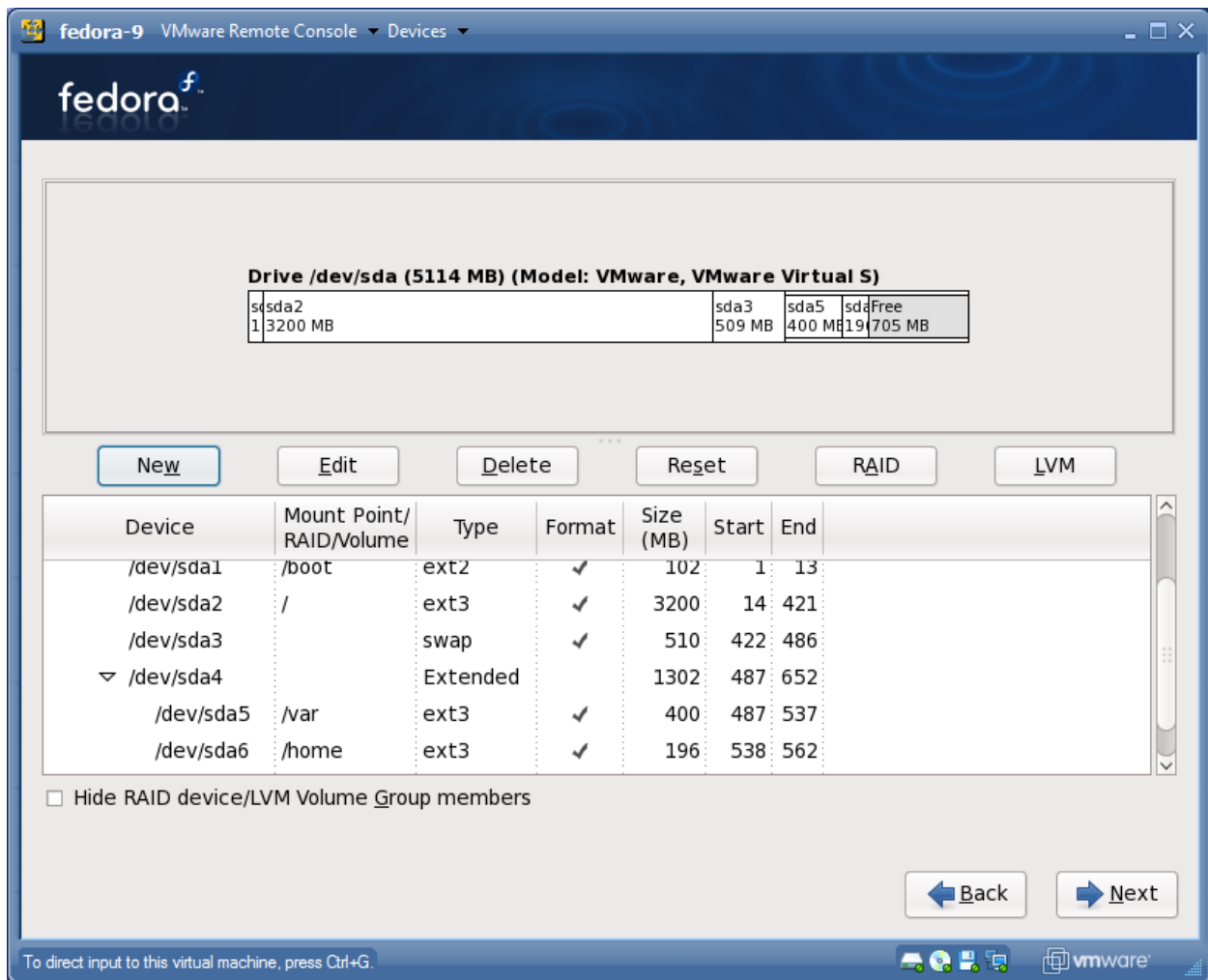
- Click New
- /
- ext3
- 3200
- Check: Force to be a primary partition



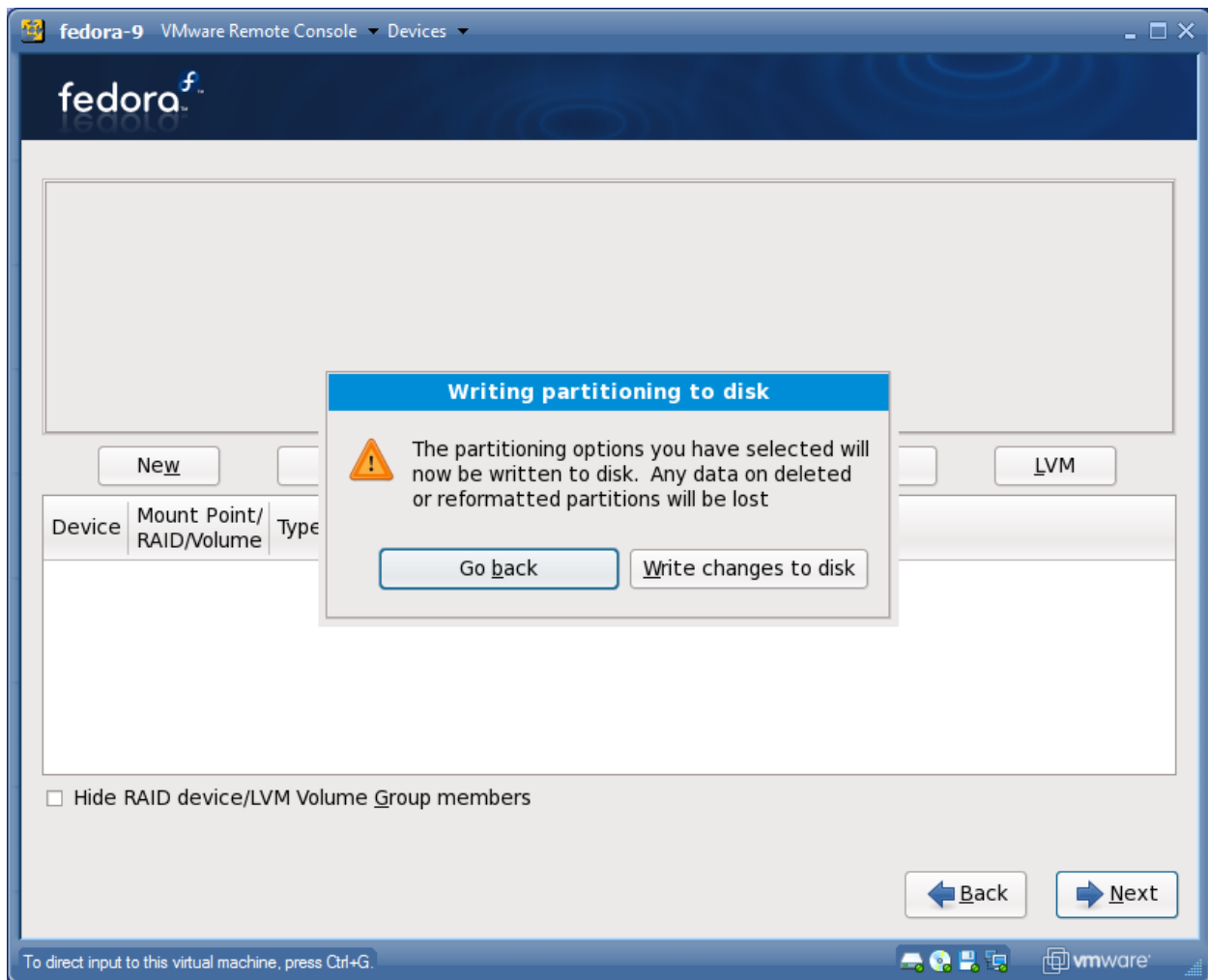
- Click New
- /var
- ext3
- 250
- Not Checked: Force to be a primary partition



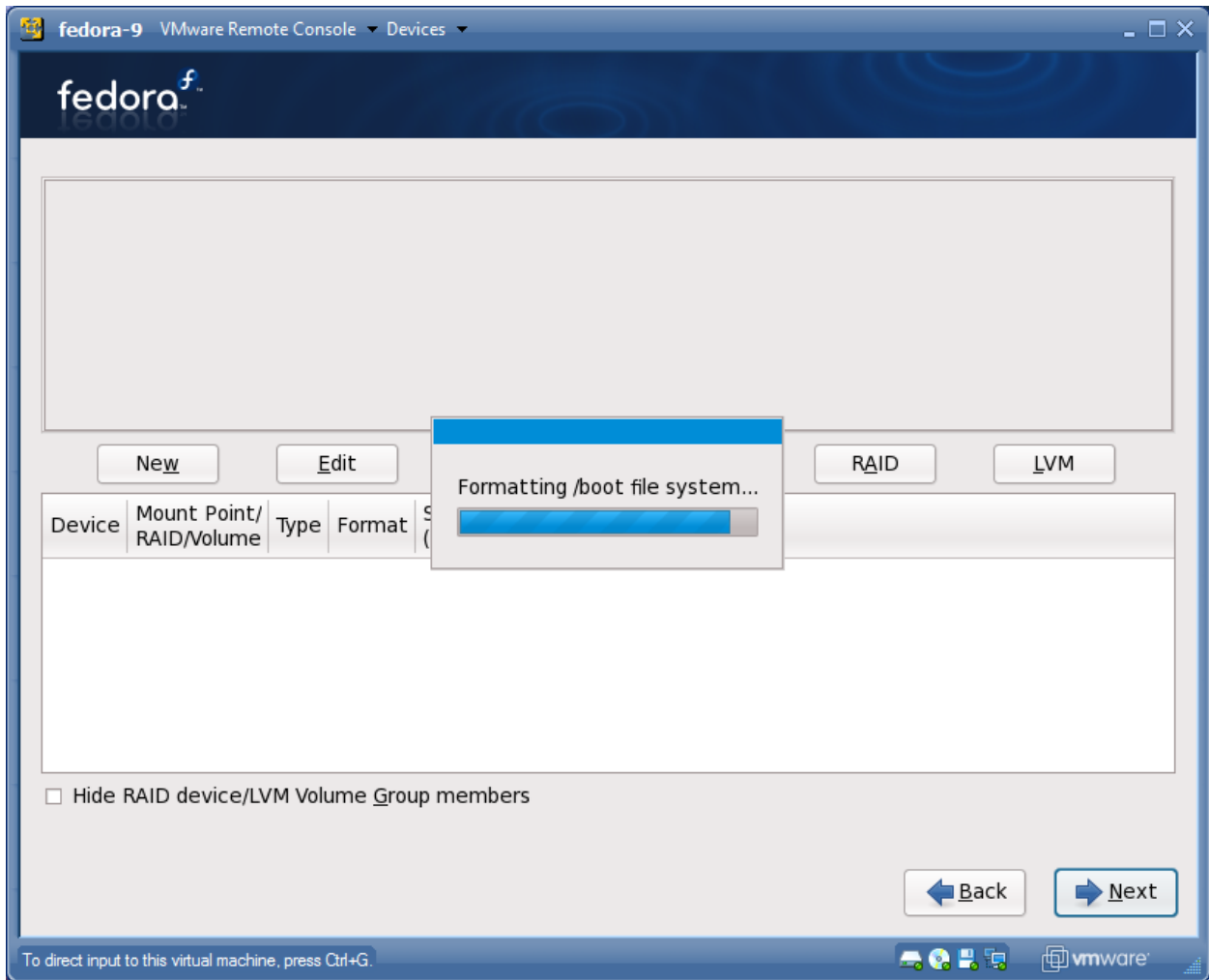
- Click New
- /home
- ext3
- 100
- Not Checked: Force to be a primary partition

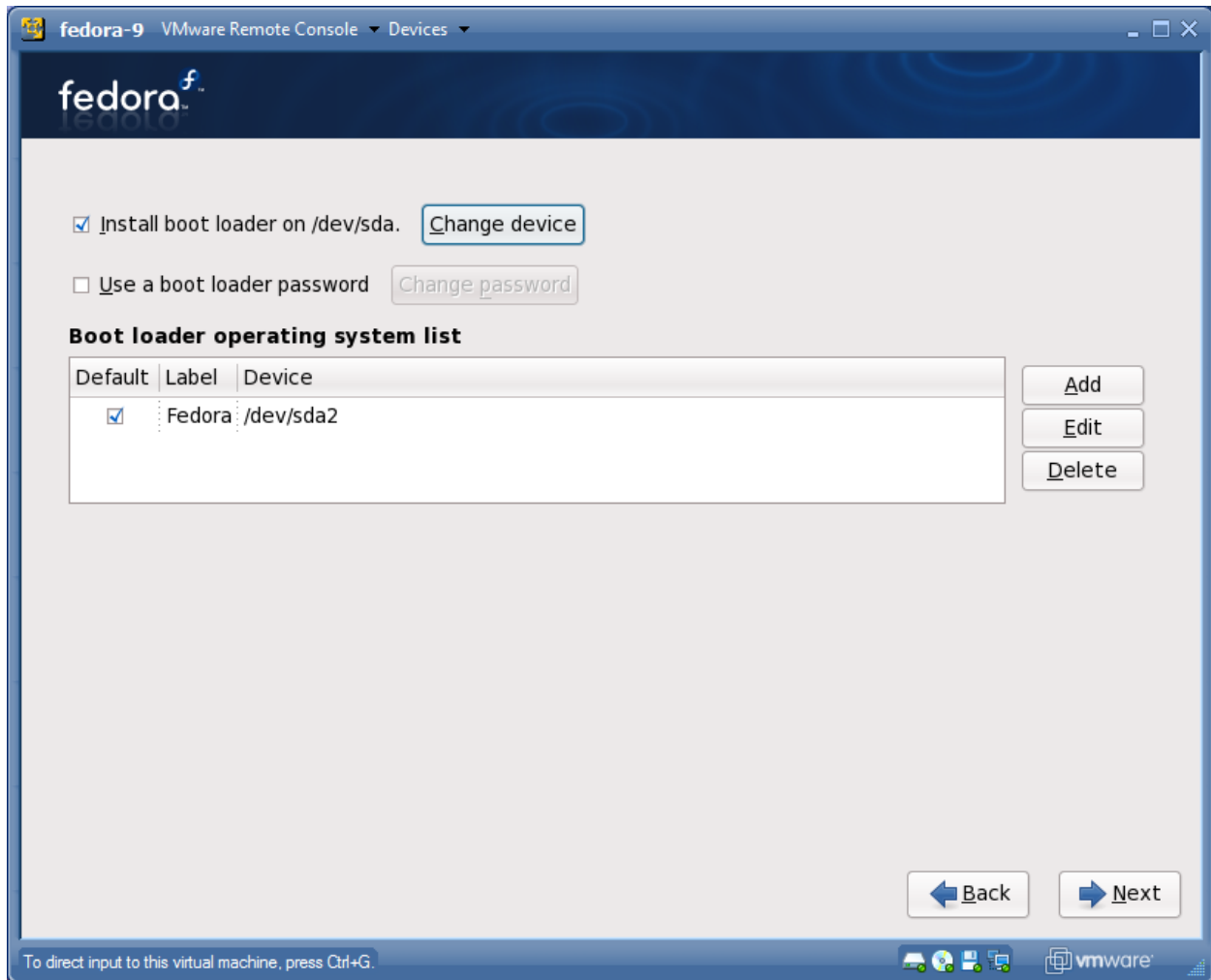


- Next

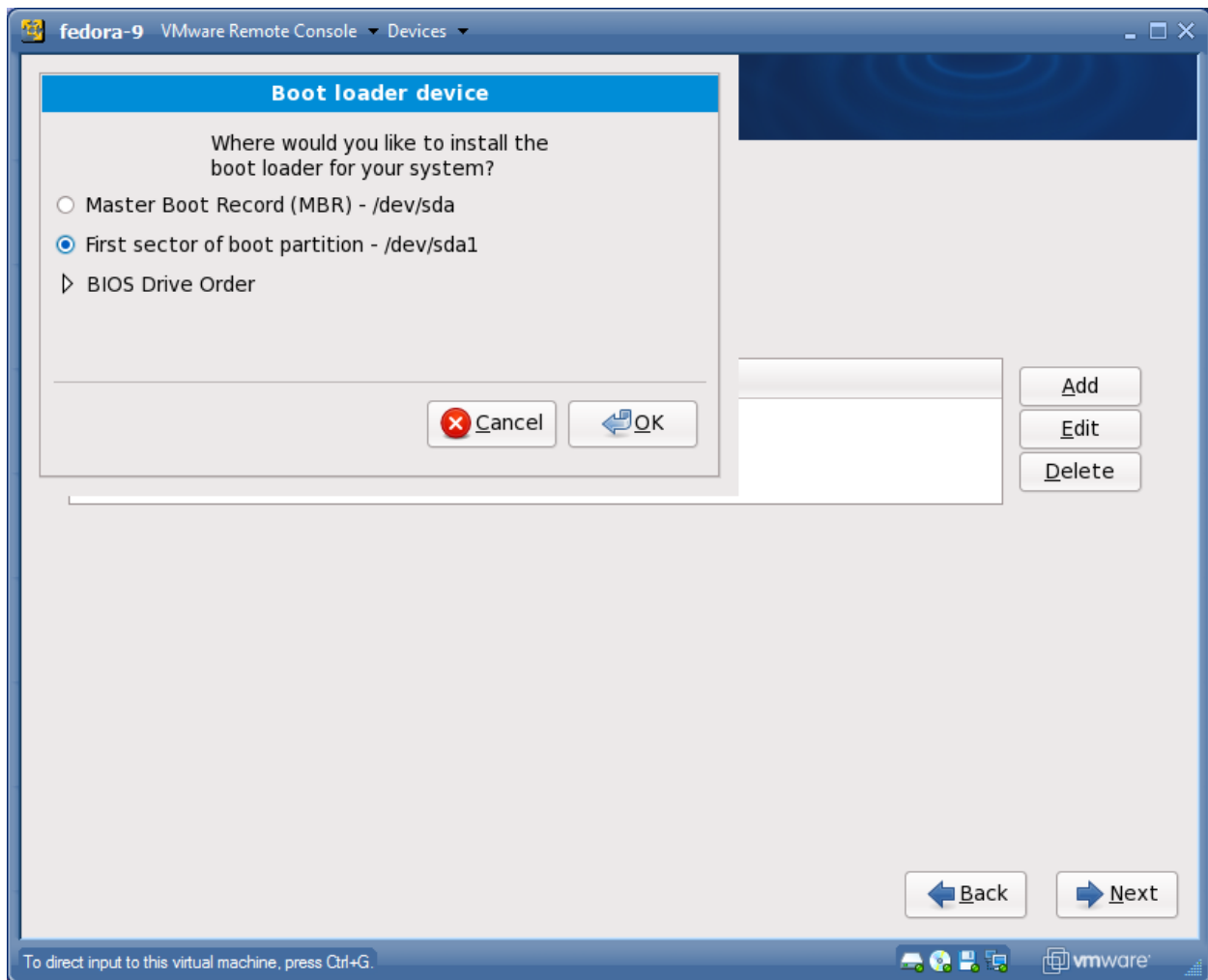


- Click Write changes to disk button

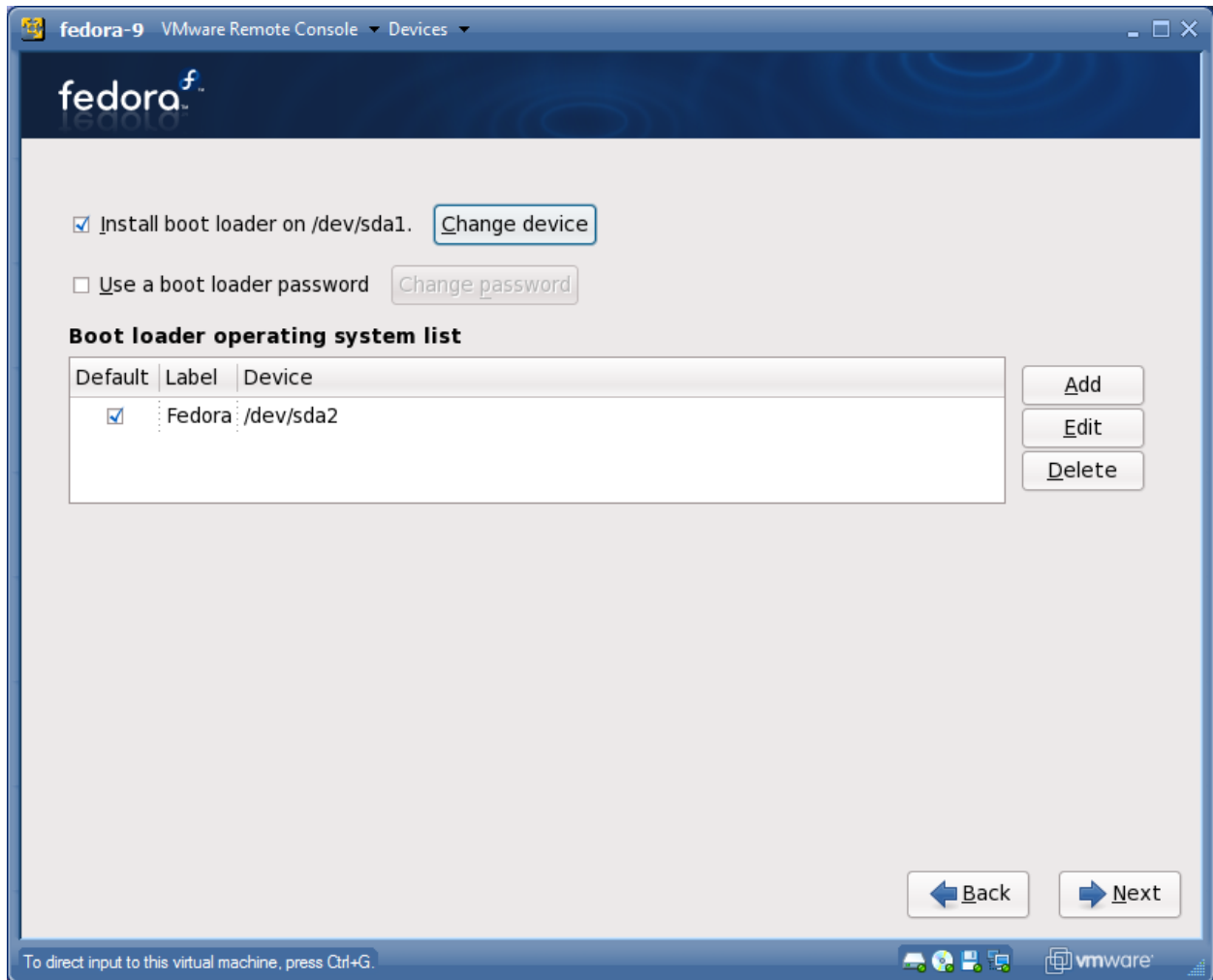




- Click Change device button



- Select First sector of boot partition



- [Next](#)

fedora-9 VMware Remote Console ▾ Devices ▾

fedora^f

Install boot loader on /dev/sda1.

Use a boot loader password

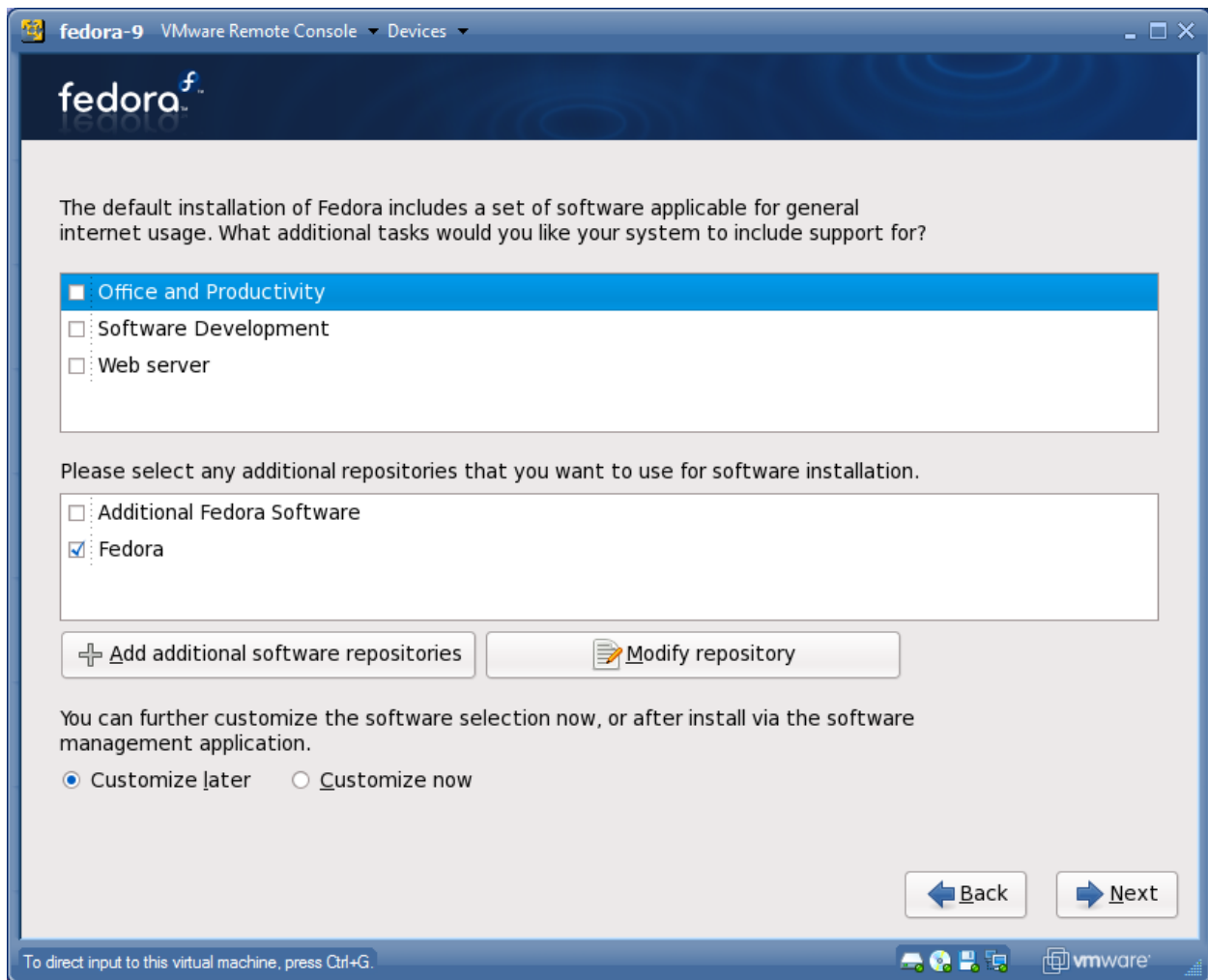
Boot loader operating system list

Default	Label	Device
<input checked="" type="checkbox"/>	Fedora	/dev/sda2

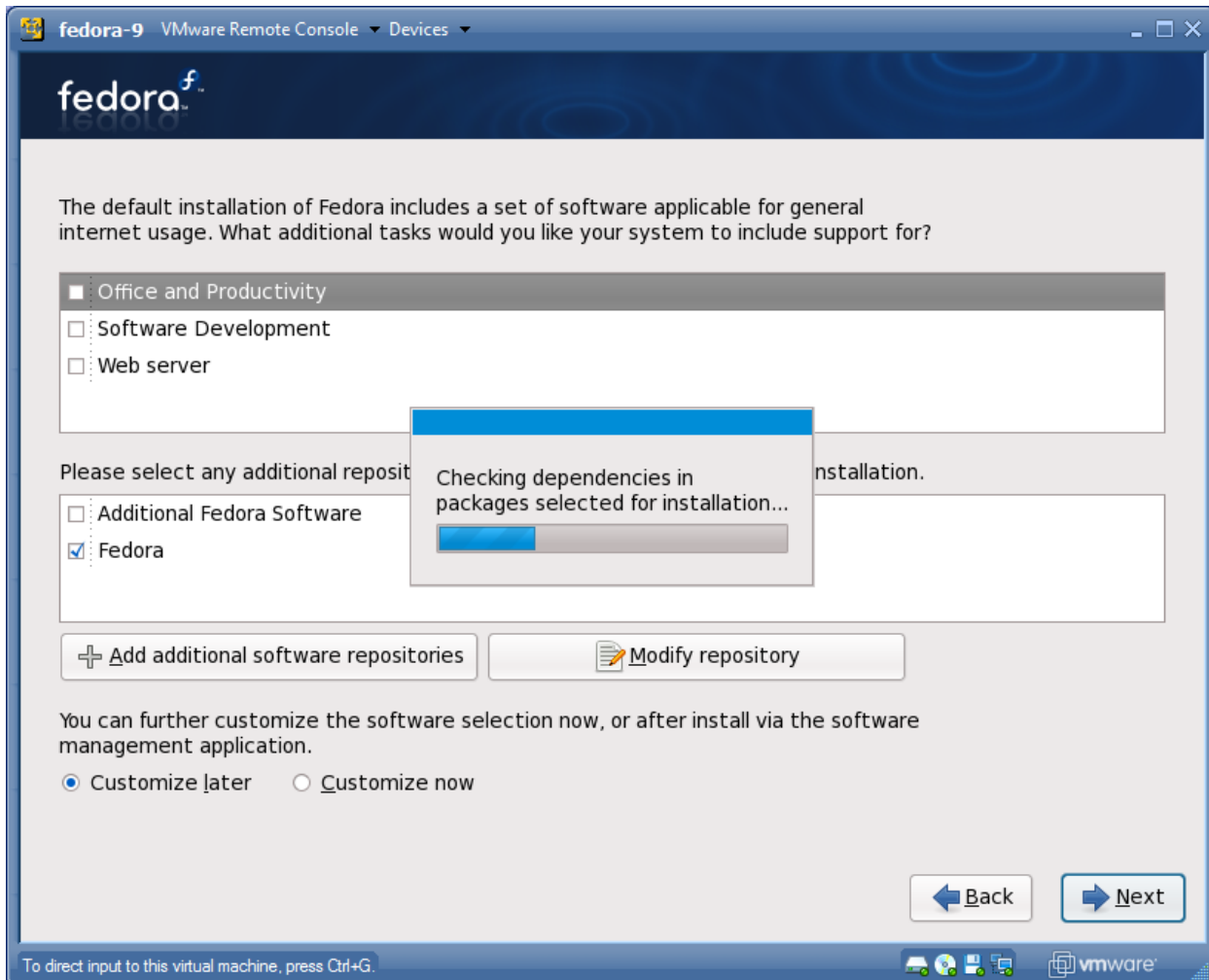
Transferring install image to hard drive...

To direct input to this virtual machine, press Ctrl+G.

vmware



- Remove check: Office and Productivity
- Click Next



fedora^f

The default installation of Fedora includes a set of software applicable for general internet usage. What additional tasks would you like your system to include support for?

- Office and Productivity
- Software Development
- Web server

Checking dependencies in packages selected for installation...

Progress bar: [Blue segment] [Grey segment]

- Please select any additional repository
- Additional Fedora Software
 - Fedora

+ Add additional software repositories Modify repository

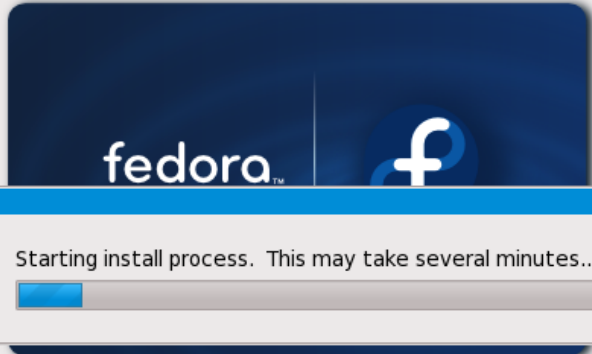
You can further customize the software selection now, or after install via the software management application.

- Customize later
- Customize now

Back Next

To direct input to this virtual machine, press Ctrl+G.





Copyright © 2003-2008 Red Hat, Inc. and others. All rights reserved.

← Back Next →

fedora^f



Copyright © 2003-2008 Red Hat, Inc. and others. All rights reserved.

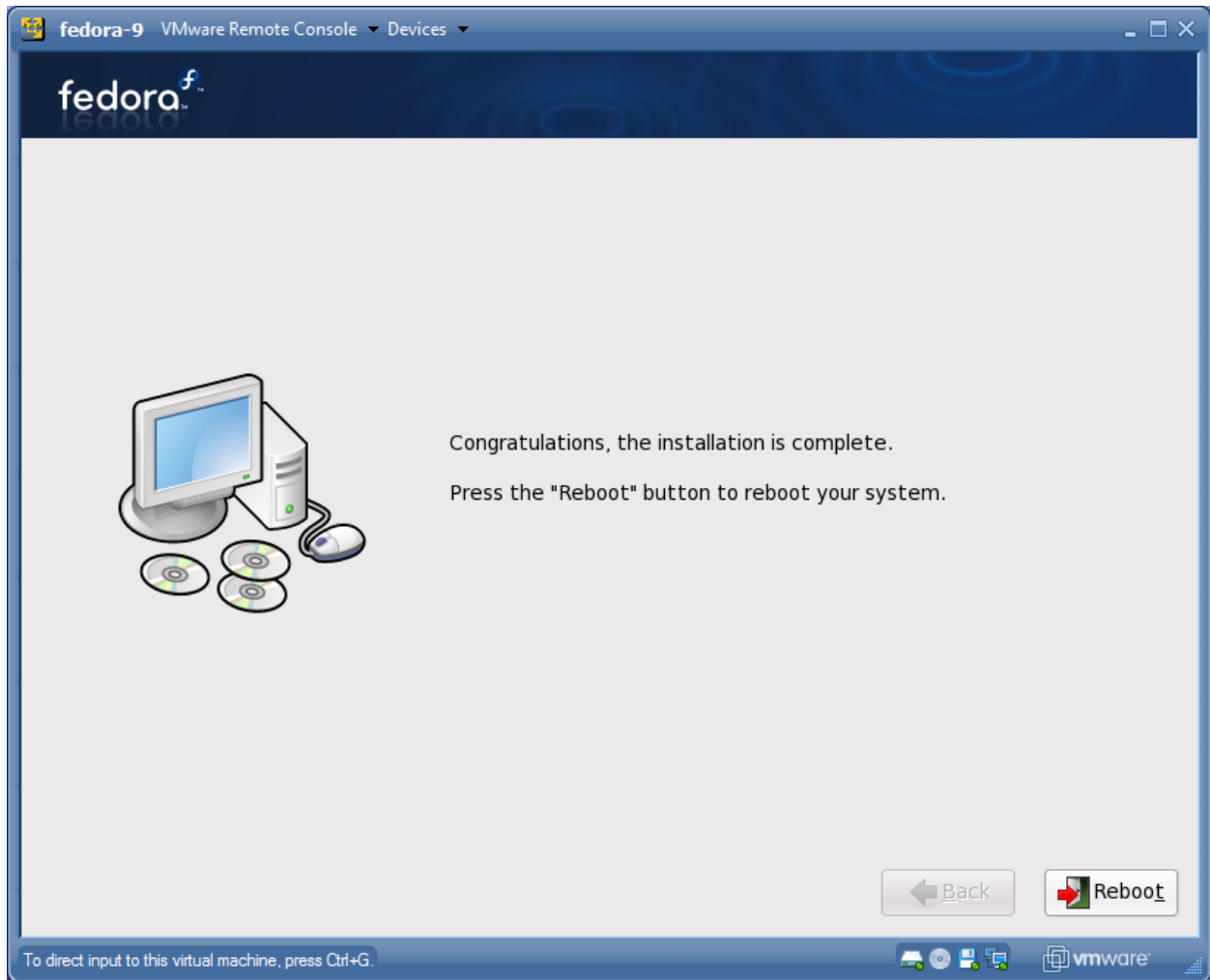
34 of 890 packages completed

Installing specs-15-1.noarch (22 MB)
Fedora package descriptions, summaries, and groups.

← Back

Next →

To direct input to this virtual machine, press Ctrl+G.



- Click Reboot



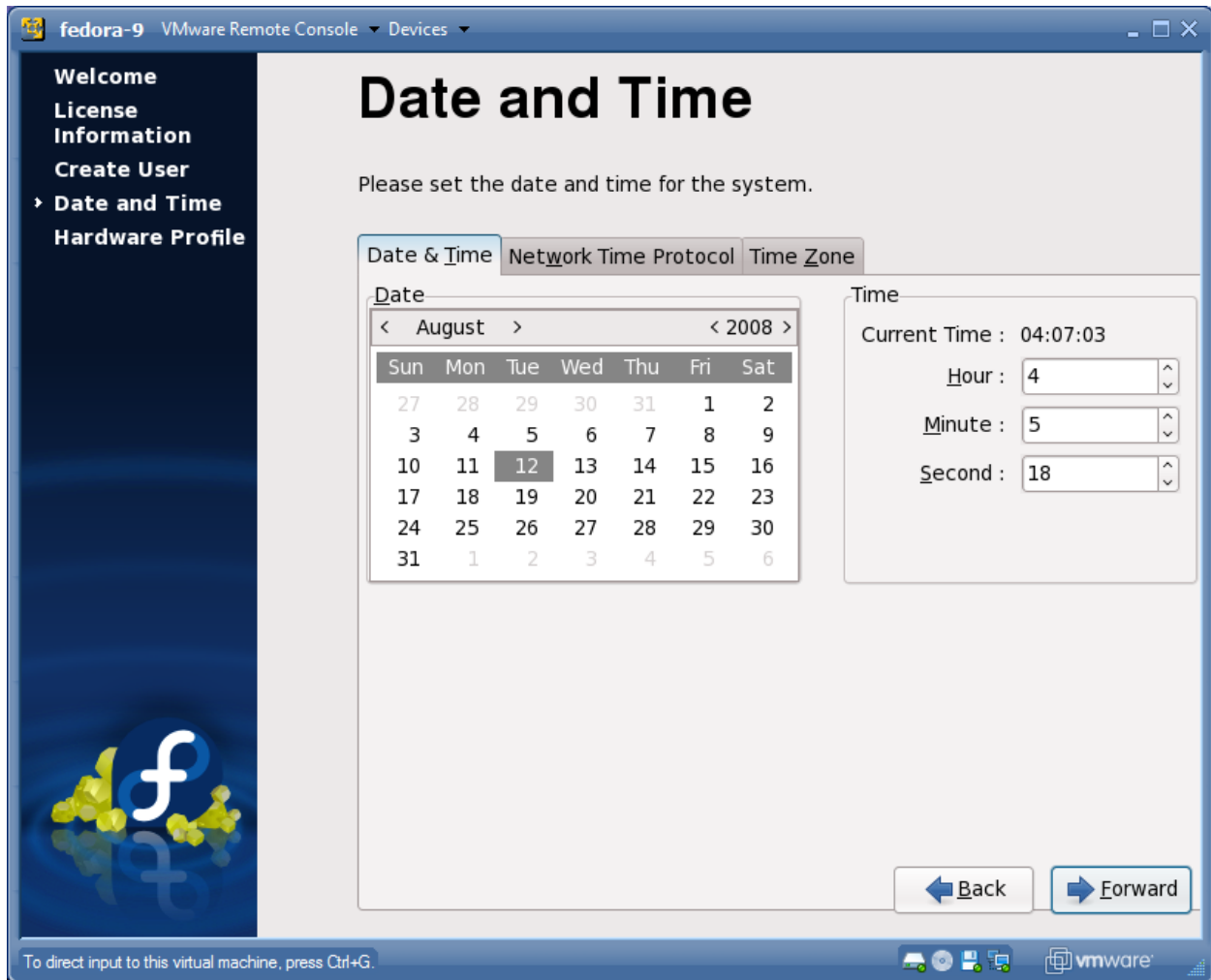
- Click Forward



- Click Forward



- Click Forward



- Click Forward



- Send Profile
- Finish



fedora-9 VMware Remote Console ▾ Devices ▾



Booting 'Fedora (2.6.25-14.fc9.i686)'

```
root (hd0,0)
  Filesystem type is ext2fs, partition type 0x83
kernel /vmlinuz-2.6.25-14.fc9.i686 ro root=UUID=99649e33-4d49-4d45-8bd7
a51d5 rhgb quiet
  [Linux-bzImage, setup=0x3000, size=0x1fab60]
initrd /initrd-2.6.25-14.fc9.i686.img
  [Linux-initrd @ 0x1fc57000, 0x2884dc bytes]
```

Decompressing Linux... done.

Booting the kernel.

Red Hat nash version 6.0.52 starting

sd 0:0:0:0: [sda] Assuming drive cache: write through

sd 0:0:0:0: [sda] Assuming drive cache: write through

Welcome to **Fedora**

Press 'I' to enter interactive startup.


Starting udev: _




To direct input to this virtual machine, press Ctrl+G.



fedora-9 VMware Remote Console Devices



fedora9.localdomain

	cis 191
	Other...

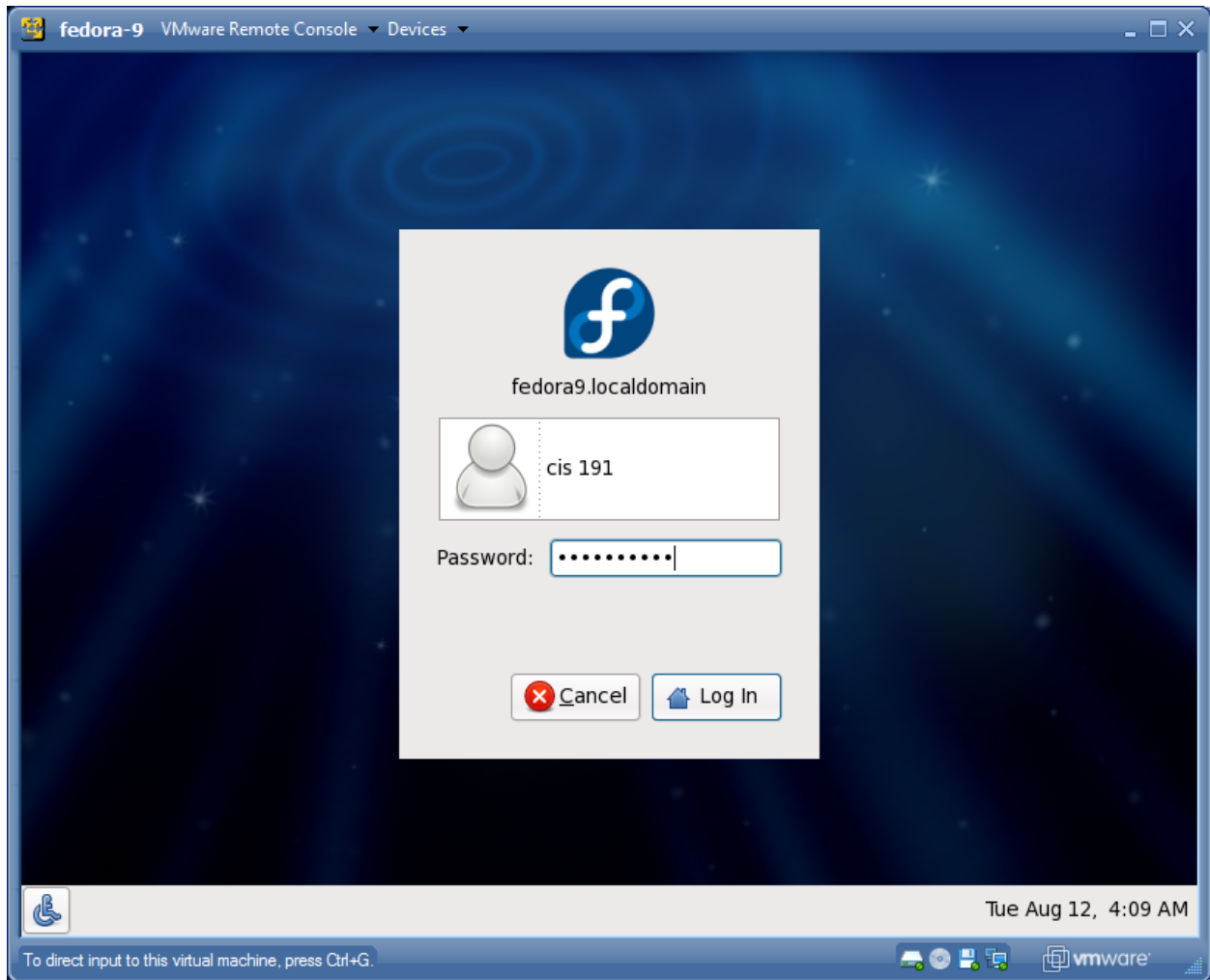
Restart Shut Down

Tue Aug 12, 4:08 AM

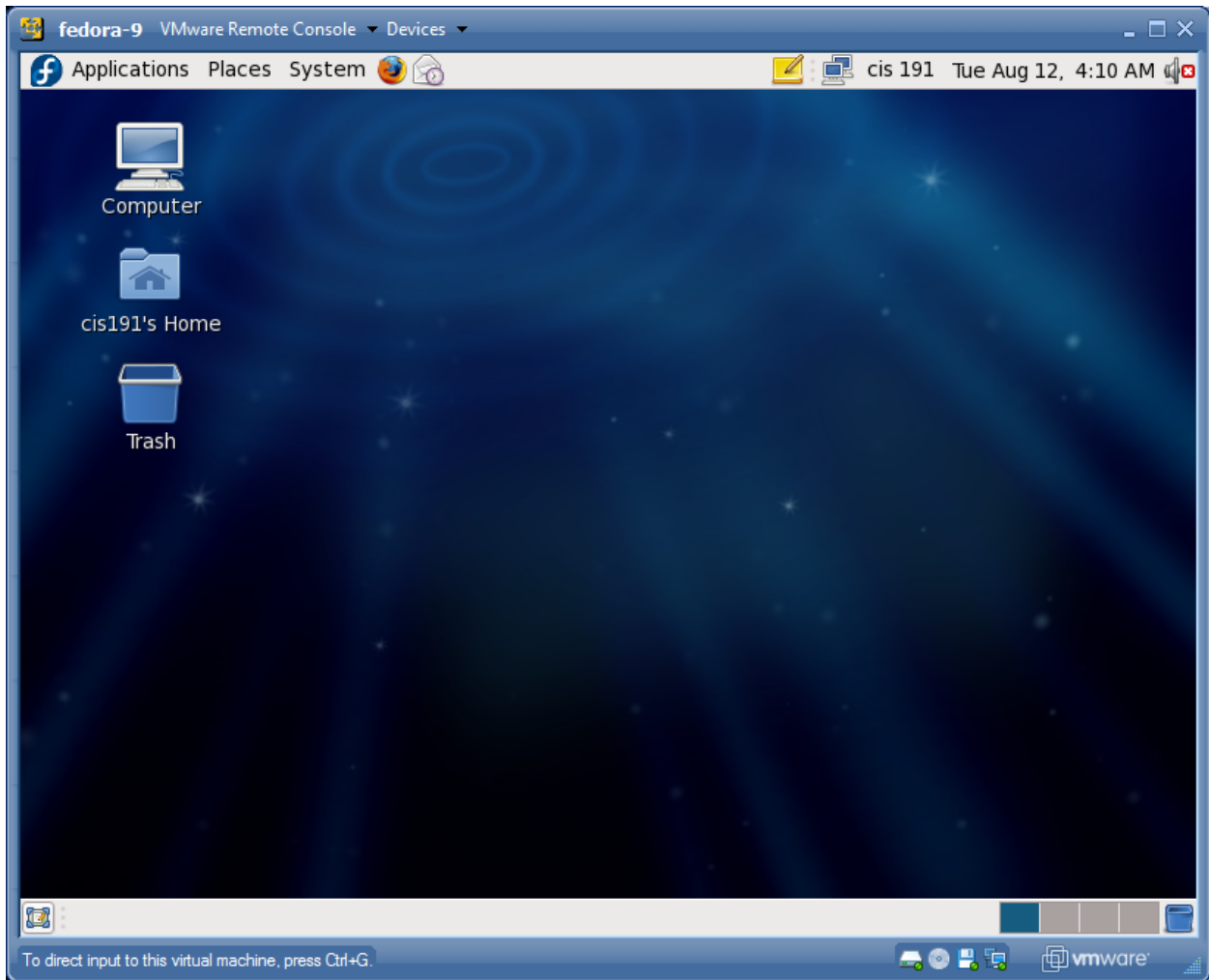
To direct input to this virtual machine, press Ctrl+G.

vmware

Detailed description: This is a screenshot of a VMware Remote Console window for a Fedora 9 virtual machine. The window title is 'fedora-9 VMware Remote Console' with a 'Devices' dropdown menu. The main display area shows a dark blue background with a central grey dialog box. The dialog box features the Fedora logo at the top, followed by the text 'fedora9.localdomain'. Below this is a list of users: 'cis 191' (with a white user icon) and 'Other...'. At the bottom of the dialog are two buttons: 'Restart' and 'Shut Down'. The bottom status bar of the console includes a accessibility icon on the left, the date and time 'Tue Aug 12, 4:08 AM' on the right, and a VMware logo in the bottom right corner. A tooltip at the bottom left reads 'To direct input to this virtual machine, press Ctrl+G.'



- Type password
- Click Log In



Here is what you should have now on your new Fedora 9 VM:

Partitions:

```
[root@fedora9 ~]# fdisk -l
```

```
Disk /dev/sda: 5368 MB, 5368709120 bytes
255 heads, 63 sectors/track, 652 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Disk identifier: 0x000a11c2
```

Device	Boot	Start	End	Blocks	Id	System
/dev/sda1	*	1	13	104391	83	Linux
/dev/sda2		14	421	3277260	83	Linux
/dev/sda3		422	486	522112+	82	Linux swap / Solaris
/dev/sda4		487	652	1333395	5	Extended
/dev/sda5		487	537	409626	83	Linux
/dev/sda6		538	562	200781	83	Linux

```
[root@fedora9 ~]#
```

Mounts:

```
[root@fedora9 ~]# mount
/dev/sda2 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/sda6 on /home type ext3 (rw)
/dev/sda5 on /var type ext3 (rw)
/dev/sda1 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)
fusectl on /sys/fs/fuse/connections type fusectl (rw)
gvfs-fuse-daemon on /home/cisl91/.gvfs type fuse.gvfs-fuse-daemon
(rw,nosuid,nodev,user=cisl91)
[root@fedora9 ~]#
```

grub.conf:

```
[root@fedora9 ~]# 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 (hd0,0)
#           kernel /vmlinuz-version ro root=/dev/sda2
#           initrd /initrd-version.img
#boot=/dev/sda1
default=0
timeout=5
splashimage=(hd0,0)/grub/splash.xpm.gz
```

```
hiddenmenu
title Fedora (2.6.25-14.fc9.i686)
    root (hd0,0)
        kernel /vmlinuz-2.6.25-14.fc9.i686 ro root=UUID=99649e33-4d49-4d45-
8bd7-32fbedda51d5 rhgb quiet
        initrd /initrd-2.6.25-14.fc9.i686.img
[root@fedora9 ~]#
```

MBR boot code:

```
[root@fedora9 ~]# xxd /dev/sda | more
0000000: fab8 0010 8ed0 bc00 b0b8 0000 8ed8 8ec0 .....
0000010: fbbe 007c bf00 06b9 0002 f3a4 ea21 0600 ...|.....!..
0000020: 00be be07 3804 750b 83c6 1081 fefe 0775 ....8.u.....u
0000030: f3eb 16b4 02b0 01bb 007c b280 8a74 018b .....|...t..
0000040: 4c02 cd13 ea00 7c00 00eb fe00 0000 0000 L.....|.....
0000050: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000060: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000070: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000080: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000090: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000a0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000b0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000c0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000d0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000e0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00000f0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000100: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000110: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000120: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000130: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000140: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000150: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000160: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000170: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000180: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000190: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00001a0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00001b0: 0000 0000 0000 0000 c211 0a00 0000 8001 .....
00001c0: 0100 83fe 3f0c 3f00 0000 8e2f 0300 0000 ....??.?..../.
00001d0: 010d 83fe 7fa4 cd2f 0300 9803 6400 0000 ...../....d...
00001e0: 41a5 82fe 7fe5 6533 6700 01ef 0f00 0000 A.....e3g.....
00001f0: 41e6 05fe bf8b 6622 7700 26b1 2800 55aa A.....f"w.&.(.U.
0000200: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000210: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000220: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000230: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000240: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000250: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000260: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000270: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000280: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000290: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00002a0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00002b0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00002c0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
```

```
00002d0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
[root@fedora9 ~]#
```

Note: MBR boot code is neither Microsoft or GRUB.

/boot partition boot code:

```
[root@fedora9 ~]# xxd /dev/sda1 | more
0000000: 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 41e8 0200 0008 fa90 90f6 c280 ....A.....
0000050: 7502 b280 ea59 7c00 0031 c08e d88e d0bc u...Y|.l.....
0000060: 0020 fba0 407c 3cff 7402 88c2 52be 7f7d . . .@|<.t...R..}
0000070: e834 01f6 c280 7454 b441 bbaa 55cd 135a .4....tT.A..U..Z
0000080: 5272 4981 fb55 aa75 43a0 417c 84c0 7505 RrI..U.uC.A|...u.
0000090: 83e1 0174 3766 8b4c 10be 057c c644 ff01 ...t7f.L...|.D..
00000a0: 668b 1e44 7cc7 0410 00c7 4402 0100 6689 f..D|....D...f.
00000b0: 5c08 c744 0600 7066 31c0 8944 0466 8944 \..D..pf1..D.f.D
00000c0: 0cb4 42cd 1372 05bb 0070 eb7d b408 cd13 ..B..r...p.}....
00000d0: 730a f6c2 800f 84ea 00e9 8d00 be05 7cc6 s.....|.
00000e0: 44ff 0066 31c0 88f0 4066 8944 0431 d288 D..f1...@f.D.1..
00000f0: cac1 e202 88e8 88f4 4089 4408 31c0 88d0 .....@.D.1...
0000100: c0e8 0266 8904 66a1 447c 6631 d266 f734 ...f..f.D|f1.f.4
0000110: 8854 0a66 31d2 66f7 7404 8854 0b89 440c .T.f1.f.t..T..D.
0000120: 3b44 087d 3c8a 540d c0e2 068a 4c0a fec1 ;D.}<.T....L...
0000130: 08d1 8a6c 0c5a 8a74 0bbb 0070 8ec3 31db ...l.Z.t...p..1.
0000140: b801 02cd 1372 2a8c c38e 0648 7c60 1eb9 .....r*....H|`..
0000150: 0001 8edb 31f6 31ff fcf3 a51f 61ff 2642 ....l.l.....a.&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 656f 6d00 4861 7264 2044 RUB .Geom.Hard D
0000190: 6973 6b00 5265 6164 0020 4572 726f 7200 isk.Read. Error.
00001a0: bb01 00b4 0ecd 10ac 3c00 75f4 c300 0000 .....<.u.....
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 .....
00001f0: 0000 0000 0000 0000 0000 0000 0000 55aa .....U.
0000200: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000210: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000220: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000230: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000240: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000250: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000260: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000270: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000280: 0000 0000 0000 0000 0000 0000 0000 0000 .....
0000290: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00002a0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00002b0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00002c0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
00002d0: 0000 0000 0000 0000 0000 0000 0000 0000 .....
[root@fedora9 ~]#
```

Note: Boot code in /dev/sda1 (/boot) is GRUB

Disk space usage:

```
[root@fedora9 ~]# df
Filesystem          1K-blocks      Used Available Use% Mounted on
/dev/sda2            3225252    2497196     564196  82% /
/dev/sda6            194442         6212     178191   4% /home
/dev/sda5            396623         91644     284498  25% /var
/dev/sda1            101086         7683         88184   9% /boot
tmpfs                257532          48     257484   1% /dev/shm
```

```
[root@fedora9 ~]# du -sh [!p]*
5.8M    bin
6.1M    boot
120K    dev
116M    etc
du: cannot access `home/cis191/.gvfs': Permission denied
683K    home
87M     lib
20K     lost+found
4.0K    media
4.0K    mnt
4.0K    opt
76K     root
21M     sbin
0       selinux
4.0K    srv
0       sys
84K     tmp
2.1G    usr
80M     var
[root@fedora9 ~]#
```