



Linux Workshop

Lab 1 Getting started



Requirements

- Any running Linux distribution in VMware.
- VMware Preferences: Hot keys changed from <Ctrl-Alt> to <Ctrl-Shift-Alt> before the virtual machine started.

To Do

1. Did you change the VMware hot key to <Ctrl-Shift-Alt>?
 2. Make yourself familiar with the *Multi user environment* commands.
 3. Make yourself familiar with the *Hot keys* from the Quick Reference.
 4. Install the VMware tools. Check if the *linux.iso* mount was successful before you untar the tools. If the tools are not available you can Cancel the VMware tools install, unmount the CD-ROM and use the VM-menu again to install the tools. You can also mount the *linux.iso* file yourself from VMware from *C:\ProgramFiles\VMware*.
- ◆ VMware Note: Sometimes there are problems in the virtual machine getting an IP address of a DHCP server, especially in Red Hat. Add the following three lines to the file **ifcfg-ethx** (e.g. in */etc/sysconfig/network-scripts/*):

```
check_link_down () {
return 1;
}
```

Quick Reference Objectives to learn

Multi user environment

```
<ctrl-alt-f1> #Tip: Do not start X as root
<alt-f2> #Go to tty1 (or F2, F3, F4, F5, F6) from X
<alt-f7> #Go to tty2 (or F3-F6) from char.terminal
su - #Go to X (if started) from char.terminal
su - username #Login as root (with environment)
sux - #Login as username
#Login as root (with environment, incl. X)
```

Hot keys

```
<ctrl-c> #Break
<ctrl-l> #clear screen
<ctrl-d> #logout or exit
<ctrl-alt-backspace> #Restart X
<ctrl-alt-esc> #Kill next X window by mouse click (KDE)
Systemmenu, Personal Settings, Shortcuts (Novell Linux Desktop or Ximian)
```

Install VMware tools

```
<ctrl-alt-f2> #Switch from X to a character terminal
#Login as root
#VM-menu, Install VMware tools

ls /media/dvd #or ls /media/cdrom for checking the mount
tar -zxvf /media/dvd/v<tab> #or tar -zxvf /media/cdrom/v<tab>
cd v<tab>; ./v<tab> #Start installer in subdir
#Answer most questions about directories with <enter>
#You are not required to answer yes for gcc availability. Answer no and only
#the host/guest file system shared directory will not work (/mnt/hgfs)
<alt-f7> #Switch from char. terminal to X
<ctrl-alt-backspace> #Restart X and load new display settings
vmware-config-tools.pl #Change display settings again from tty
#5+5% discount at vmware.com #Discount code: ROBZON047
#educational licenses at info@ovec.nl
```



Theory Modules

LPIC 1 Certification Bible, isbn 0-7645-4772-0
 ➤ p. 370 Using special keys

Extra References

- www.vmware.com user documentation help file