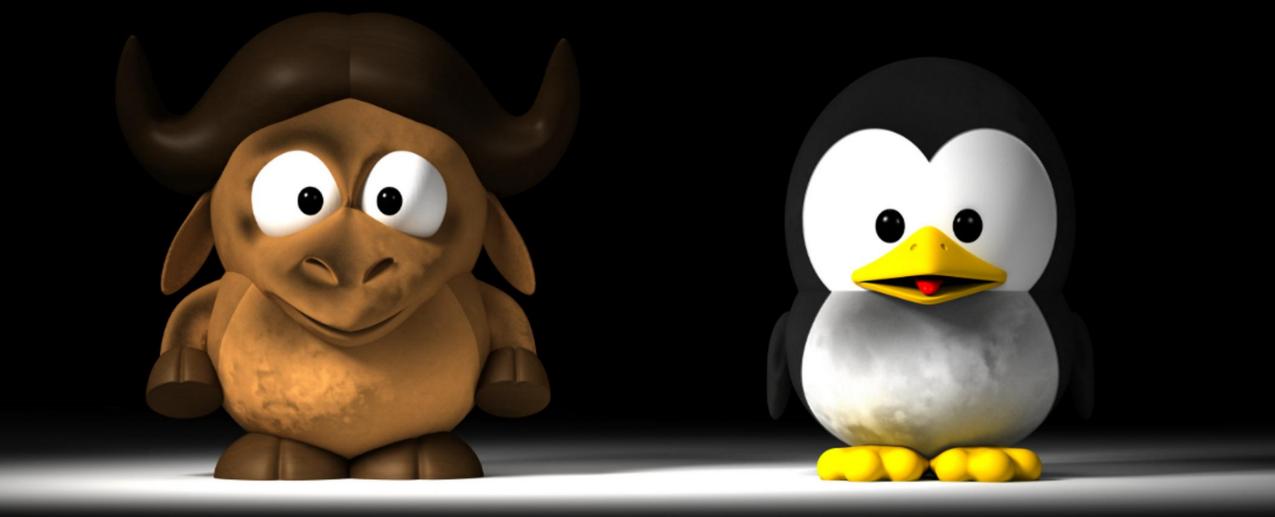


آموزش مقدماتی لینوکس

تهیه کننده: فاطمه رشید*ی* 



GNU / LINUX FREE AS IN FREEDOM

"The GNU Project is idealistic, and anyone encouraging idealism today faces a great obstacle: the prevailing ideology encourages people to dismiss idealism as 'impractical'. Our idealism has been extremely practical: it is the reason we have a free GNU/Linux operating system. People who love this system ought to know that it is our idealism made real." - RMS

### Open source



# مفهوم آزادي

- ۱- آزادی در داشتن کل متن برنامه نوشته شده
- ۲ آزادی در تعداد کپی هایی که میتوان از برنامه داشت
- ۳ آزادی در داشتن متن برنامه و تغییر در آن و اجرای آن به شکل دلخواه و در اختیار قرار دادن این نسخه جدید به دیگران
- ۴ آزادی در قرار دادن متن برنامه به دیگران اما گرفتن پول برای پشتیبانی و یا اعمال تغییرات در آن



### لابسنس های متن باز

1. FSF Free Software Foundation 2. OSI Open Source Initiative

# **GPL GNU General Public License**





# توزیع های لینوکس

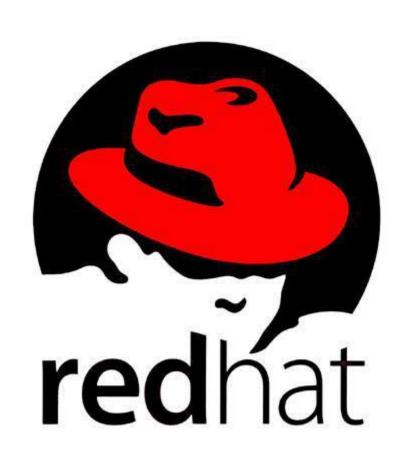


- Redhat

  یک شرکت که نسخه ای به همین نام دار د

  Fedora, Centos,...
- Debian
  یک انجمن که یک نسخه یه همین نام دار د
  Ubunto → mint, knopix,...

نصب centos





Automatic boot in 2 seconds...

CENTOS 6
Community ENTerprise Operating System



Welcome to CentOS-6.3-i386-LiveCD!

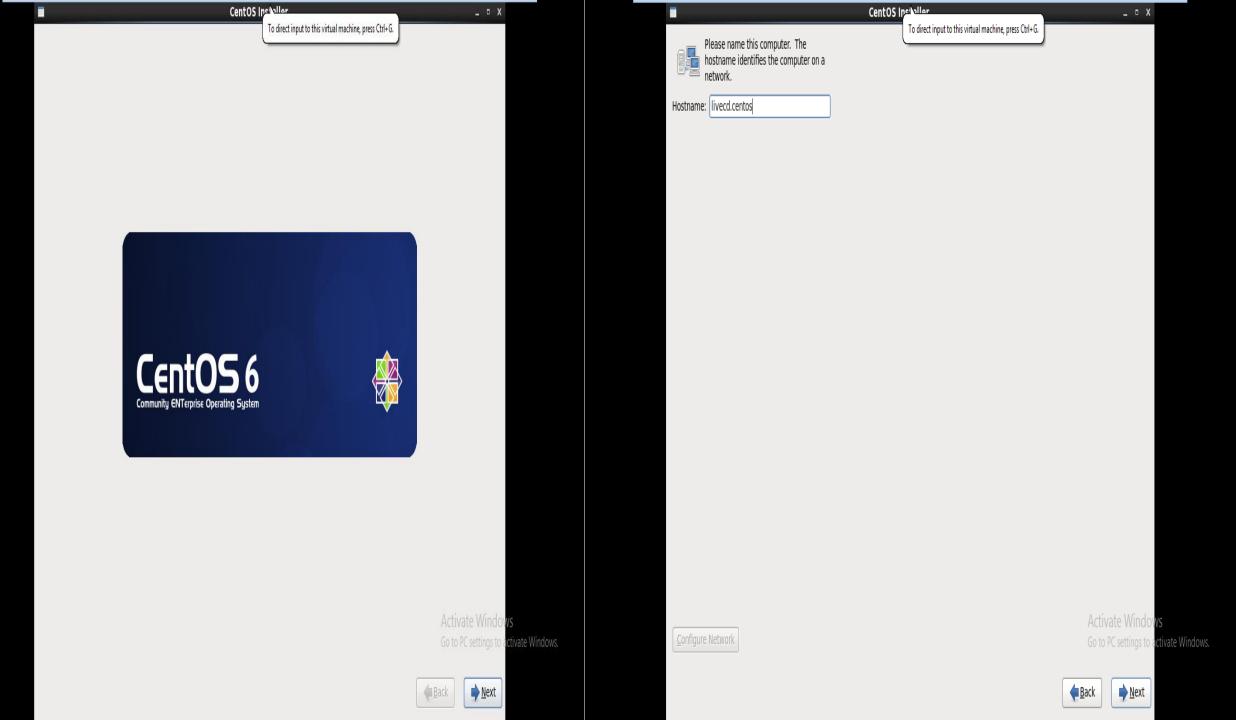
Verify and Boot
Boot
Boot (Text Mode)
Boot (Basic Video)
Install
Install (Text Mode)
Memory Test
Boot from local drive

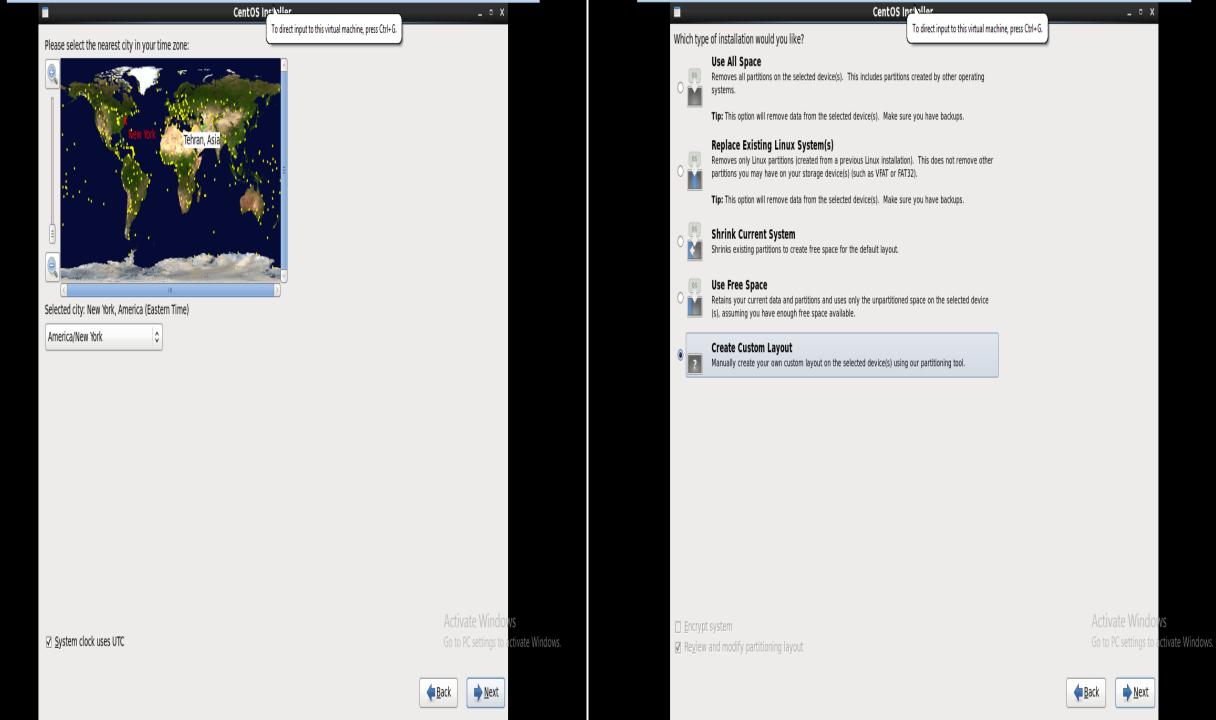
Press [Tab] to edit options

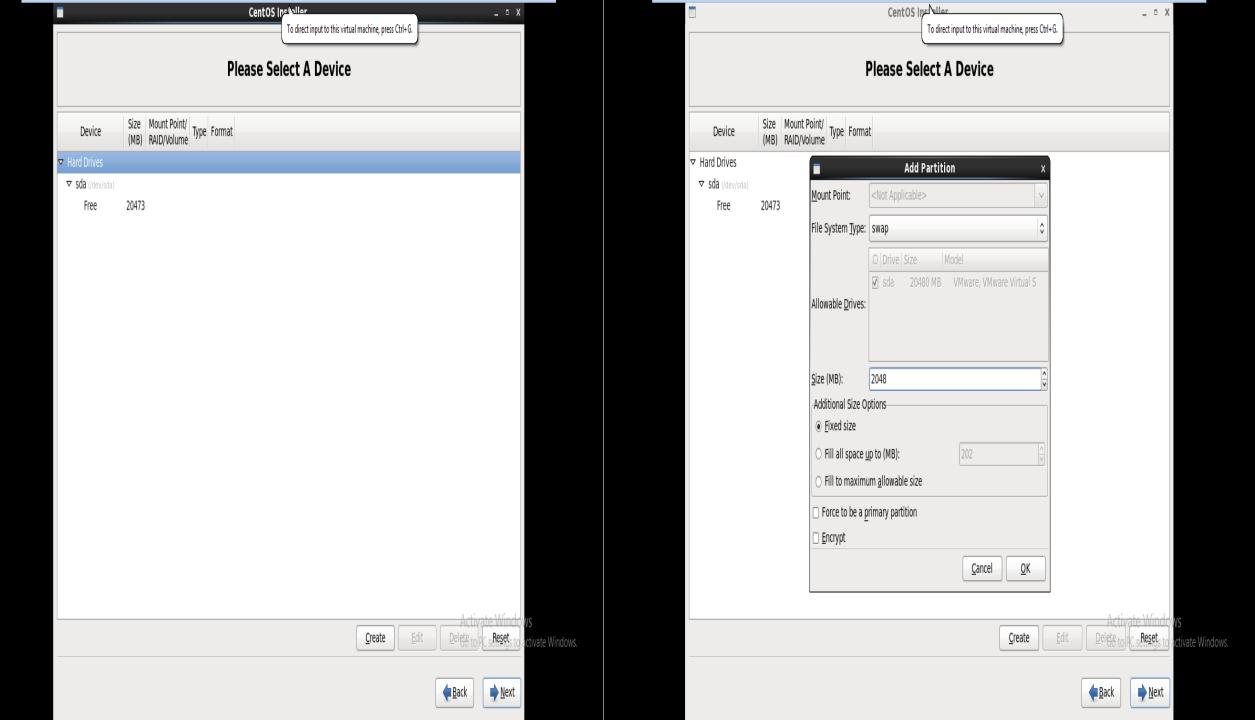


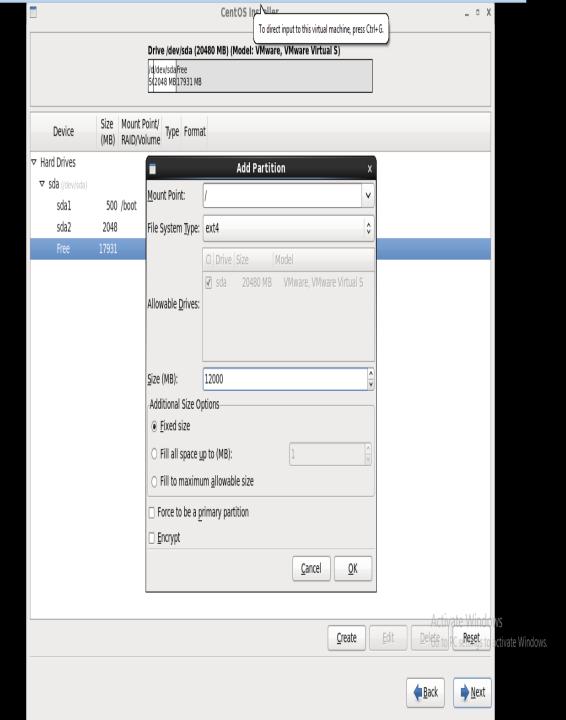


Activate Windows
Go to PC settings to activate Windows









# Root

- 1. Root as super user
- Root as file system /
- 3. Root as root's home directory /root



☑ Install boot loader on /dev/sda. Change device

□ <u>U</u>se a boot loader password Change password

#### Boot loader operating system list

Default Label Device	Add
<ul> <li>CentOS /dev/sda2</li> </ul>	<u>E</u> dit
	<u>D</u> elete



→ Welcome License Information Create User Date and Time Kdump

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

There are a few more steps to take before your system is ready to use. The Setup Agent will now guide you through some basic configuration. Please click the "Forward" button in the lower right corner to continue



Activate Window Go to PC settings to activate Windows.

<u>F</u>orward

Welcome

License Information

Create User

Date and Time Kdump

### License Information

CentOS-6 EULA

CentOS-6 comes with no guarantees or warranties of any sorts, either written or implied.

The Distribution is released as GPL. Individual packages in the distribution come with their own licences.

● Yes, I agree to the License Agreement

○ No, I do not agree

Activate Window Go to PC settings to activate Windows.

<u>B</u>ack

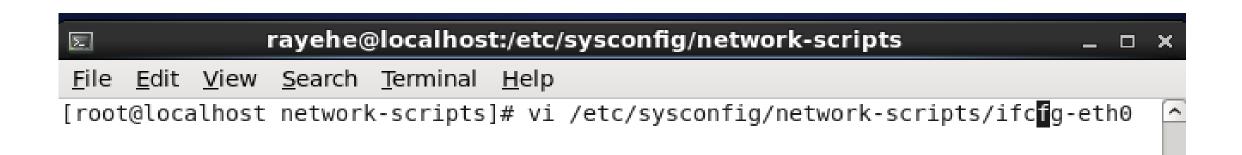
<u>F</u>orward

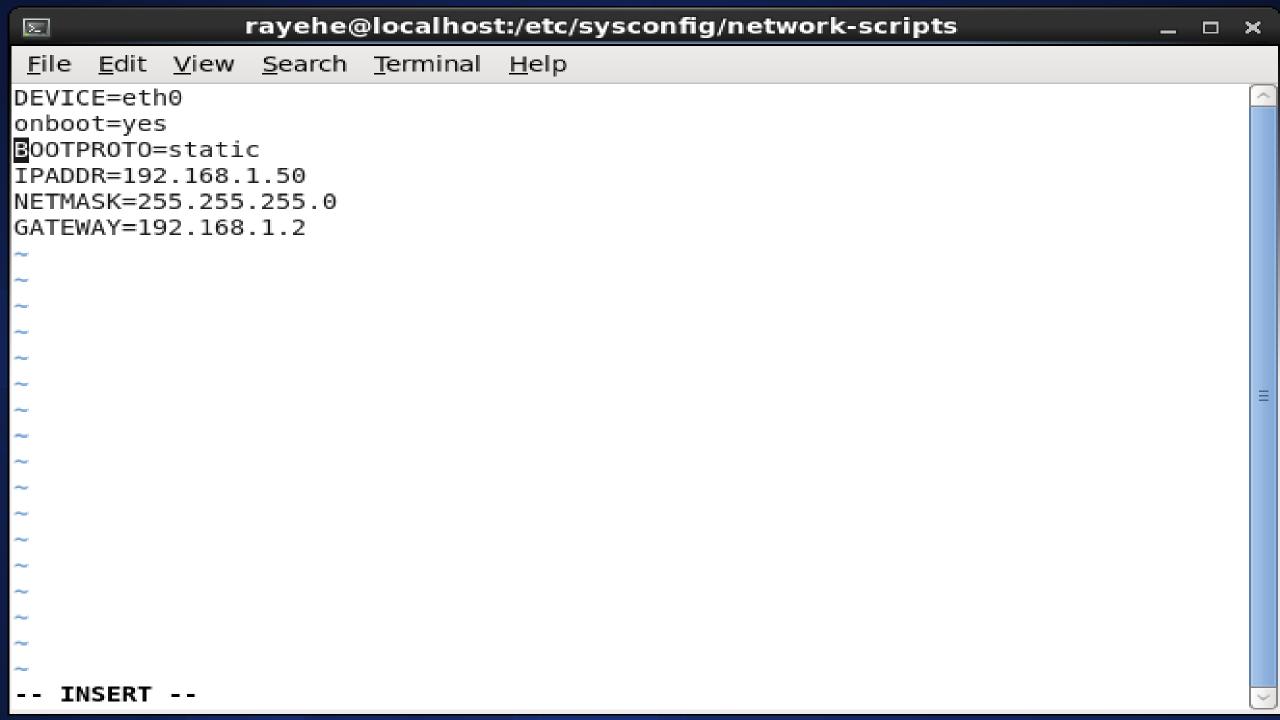
## LS -L

	_ [	X
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>S</u> earch <u>T</u> erminal <u>H</u> elp		
[rayehe@localhost ~]\$ ls -l		^
total 32		
drwxr-xr-x. 2 rayehe rayehe 4096 Nov 26 19:12 Desktop		
drwxr-xr-x. 2 rayehe rayehe 4096 Nov 26 19:12 Documents		
drwxr-xr-x. 2 rayehe rayehe 4096 Nov 26 19:12 Downloads		
drwxr-xr-x. 2 rayehe rayehe 4096 Nov 26 19:12 Music		
drwxr-xr-x. 2 rayehe rayehe 4096 Nov 26 19:12 Pictures		
drwxr-xr-x. 2 rayehe rayehe 4096 Nov 26 19:12 Public		
drwxr-xr-x. 2 rayehe rayehe 4096 Nov 26 19:12 Templates		
drwxr-xr-x. 2 rayehe rayehe 4096 Nov 26 19:12 Videos		
[rayehe@localhost ~]\$		

- 1. Permission
- 2. Hard link عداد
- 3. Owner
- 4. Group owner
- 5. Size
- 6. Modify time
- 7. File name

# تنظیمات آدرس IP





```
File Edit View Search Terminal Help
[root@localhost network-scripts]# service network restart
              rayehe@localhost:/etc/sysconfig/network-scripts
2_
                                                                          _ D X
File Edit View Search Terminal Help
[root@localhost network-scripts]# ifconfig
         Link encap:Ethernet HWaddr 00:0C:29:7C:91:E3
eth0
         inet addr: 192.168.1.50 Bcast: 192.168.1.255 Mask: 255.255.255.0
         inet6 addr: fe80::20c:29ff:fe7c:91e3/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:9054 errors:0 dropped:0 overruns:0 frame:0
         TX packets:5842 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:12254486 (11.6 MiB) TX bytes:346475 (338.3 KiB)
          Interrupt:19 Base address:0x2000
lo
         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:12 errors:0 dropped:0 overruns:0 frame:0
         TX packets:12 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
         RX bytes:720 (720.0 b) TX bytes:720 (720.0 b)
[root@localhost network-scripts]#
```

rayehe@localhost:/etc/sysconfig/network-scripts

\_ 🗆 ×

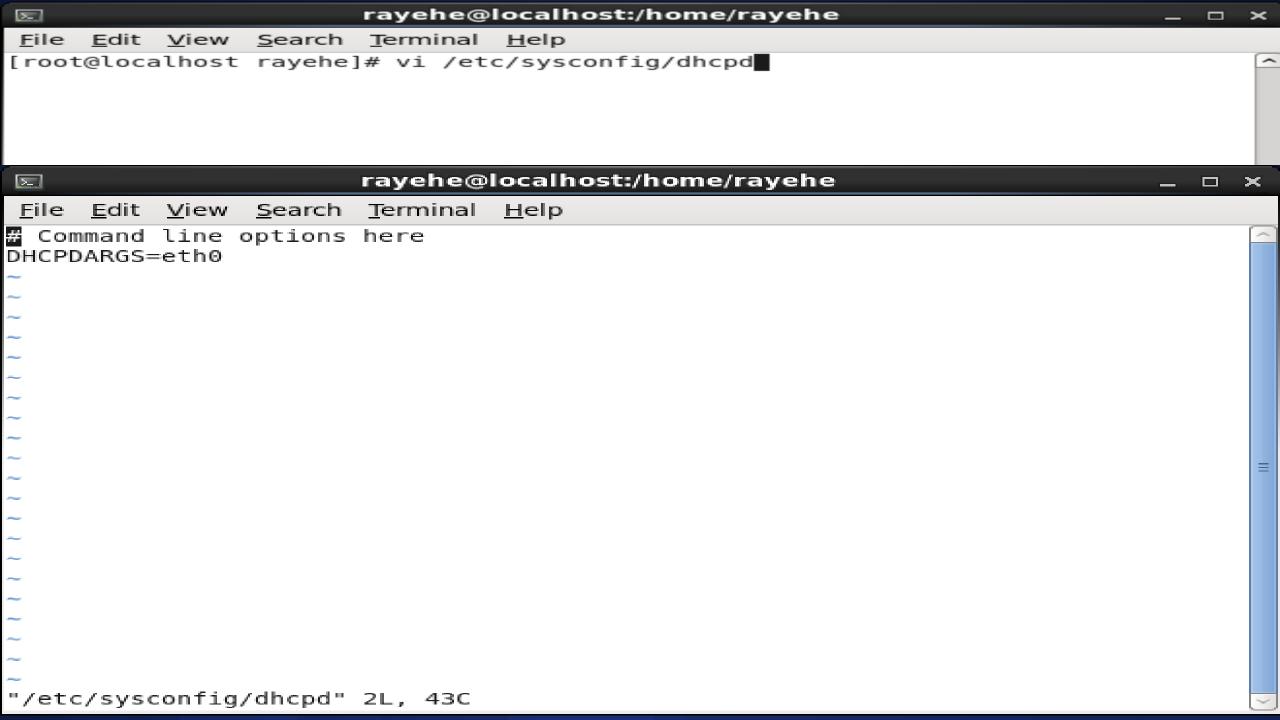
2

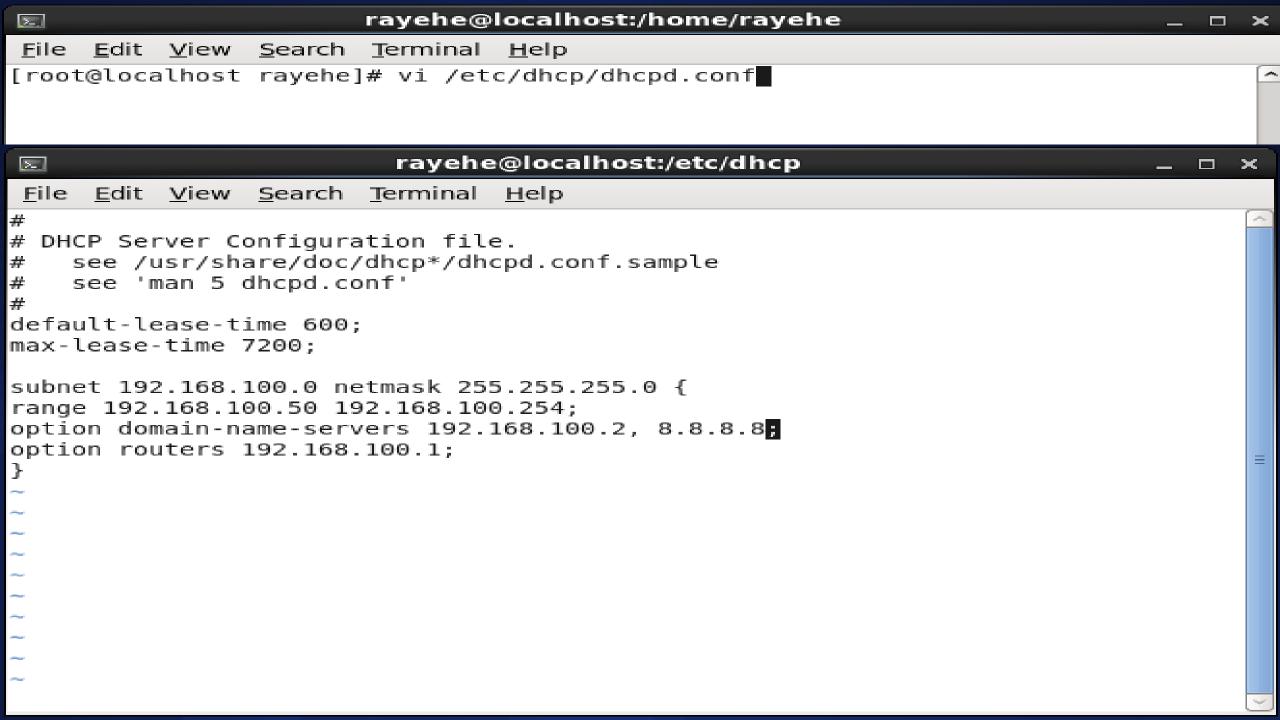
### DHCP SERVER

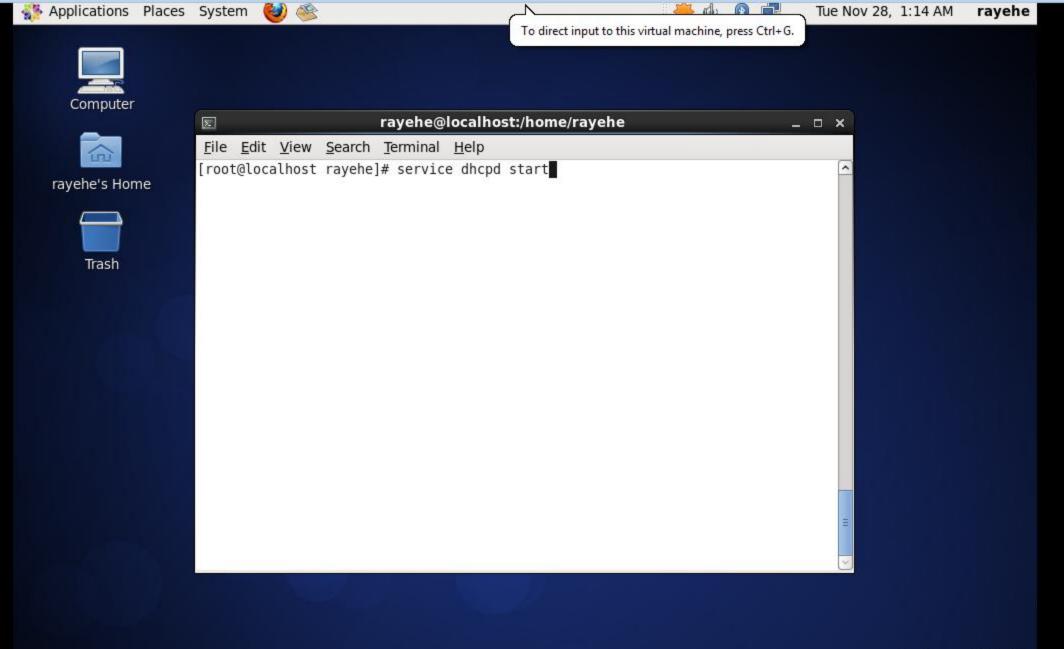
Total download size: 1.3 M

ravehe@localhost:/etc...

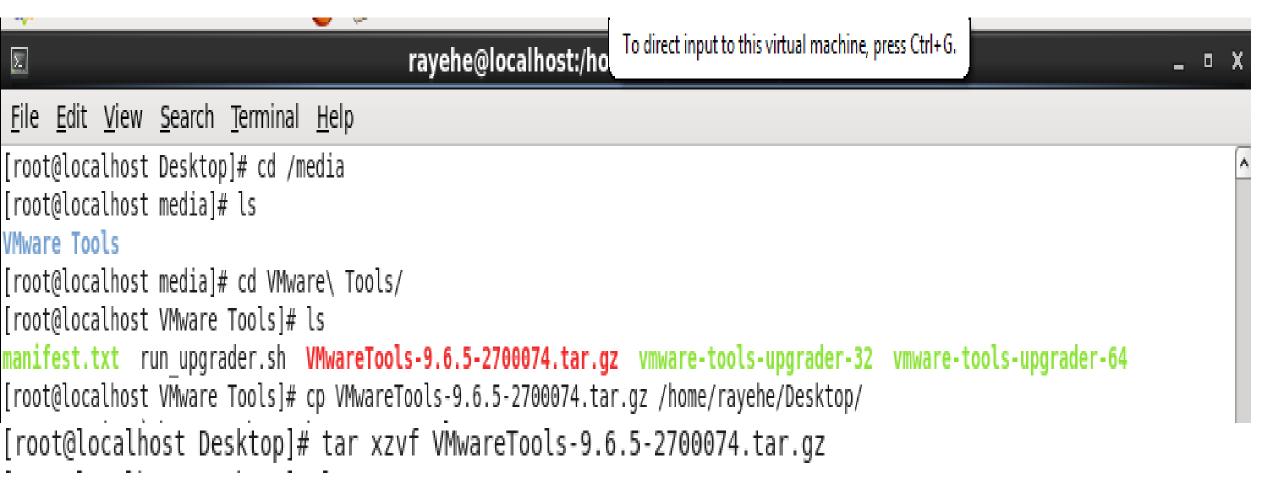
Sun Nov 26, 22:03 To direct input to this virtual machine, press Ctrl+G. >\_ rayehe@localhost:/etc/sy File Edit View Search Terminal Help [root@localhost network-scripts]# yum install dhcp Loaded plugins: fastestmirror, refresh-packagekit, security Loading mirror speeds from cached hostfile \* base: centos.mirror.iweb.ca \* extras: centos.mirror.iweb.ca \* updates: centos.mirror.iweb.ca Setting up Install Process Resolving Dependencies --> Running transaction check ---> Package dhcp.i686 12:4.1.1-53.P1.el6.centos.1 will be installed --> Processing Dependency: dhcp-common = 12:4.1.1-53.P1.el6.centos.1 for package : 12:dhcp-4.1.1-53.P1.el6.centos.1.i686 --> Running transaction check ---> Package dhcp-common.i686 12:4.1.1-31.P1.el6 will be updated --> Processing Dependency: dhcp-common = 12:4.1.1-31.P1.el6 for package: 12:dhcl ient-4.1.1-31.P1.el6.i686 ---> Package dhcp-common.i686 12:4.1.1-53.P1.el6.centos.1 will be an update --> Running transaction check ---> Package dhclient.i686 12:4.1.1-31.P1.el6 will be updated ---> Package dhclient.i686 12:4.1.1-53.P1.el6.centos.1 will be an update --> Finished Dependency Resolution Dependencies Resolved Package Repository \_\_\_\_\_\_ Installing: 12:4.1.1-53.P1.el6.centos.1 updates 825 k dhcp i686 Updating for dependencies: dhclient i686 12:4.1.1-53.P1.el6.centos.1 320 k updates dhcp-common i686 12:4.1.1-53.P1.el6.centos.1 updates 144 k Transaction Summary Activate Wind Install 1 Package(s) Go to PC settings t Upgrade 2 Package(s)







# FULLSCREEN VM → INSTALL VMWARE TOOLS



```
[root@localhost Desktop]# ls
VMwareTools-9.6.5-2700074.tar.qz vmware-tools-distrib
[root@localhost Desktop]# cd vmware-tools-distrib/
[root@localhost vmware-tools-distrib]# ls
bin doc etc FILES INSTALL installer lib vmware-install.pl
[root@localhost vmware-tools-distrib]# ./vmware-install.pl
Creating a new VMware Tools installer database using the tar4 format.
Installing VMware Tools.
In which directory do you want to install the binary files?
[/usr/bin]
What is the directory that contains the init directories (rc0.d/ to rc6.d/)?
[/etc/rc.d]
What is the directory that contains the init scripts?
[/etc/rc.d/init.d]
In which directory do you want to install the daemon files?
[/usr/sbin]
In which directory do you want to install the library files?
[/usr/lib/vmware-tools]
The path "/usr/lib/vmware-tools" does not exist currently. This program is
going to create it, including needed parent directories. Is this what you want?
[yes]
```

در ادامه جواب های پیش فرض را انتخاب می کنیم یعنی Enter می زنیم و برای yes/no ها y/n می زنیم.

بعد از کامل شدن نصب سیستم را restart می کنیم.



