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help setting up BadStore-212.iso on KVM QEMU with Ubuntu mooc-vm

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🖼 Karen West · 7 days ago 🔗   ⚙

For project 1, some people on this discussion forum helped me install KVM QEMU to run the Ubuntu mooc-vm, since after many attempts and updates, both Oracle Virtual Box and VMware would not run the Ubuntu mooc-vm on my SUSE Linux 13.1 machine. And after a week of trying and just before withdrawing, an extension giving for the project due date, I was able to do project 1 and get it correct.

This time I'm wondering if those same people who helped me with the installation for project 1 can help with the BadStore_212.iso set up for Project 2. Here is what I've done and observed so far in the set up:

qemu-system-x86_64 -enable-kvm -m 1G -cdrom BadStore_212.iso mooc-vm-disk2.img &

This booted the VM and I saw a CDROM on my desk top. When I looked at its properties, this is what it said, and I"m wondering what I need to do to specify it correctly for this project 2. Do I need to configure it in some way? How do I set up the host-only networking for the VM? Is it just as it says in the assignment that is described for Oracle's VirtualBox?
(File->Preferences->Network ....see possible networks and select "host-only" followed by "add one" which adds something like kvmqemunet0?)

The CDROM properties I saw were:

BASIC:
Name: CDROM
Type: Folder (inode/directory)
Contents: 80 items totaling 11.9 MB
Location: Desk Top
Volume: CDROM
Free space: unknown
0 bytes used, 0 bytes free
Total Capacity: 0 bytes
File System Type: isofs

PERMISSIONS:
cdrom0 could not be determined

DRIVE:
Volume: QEMU
Model: QEMU DVD-ROM
Serial:
Firmware: 1.6
Connection: unknown

VOLUME:
Label: CDROM
Size: 12.4 MB
Media: CD-ROM Disc
UUID:
File System: iso9660
Mount Point: /media/cdrom0

Mount Options: ro no suid nodev utf8

Media: CD-ROM/DVD-ROM
Removable: Yes-ejectable
External: no

Settings:
Mount Point: /media/?
File System:
Mount Options:

Any help appreciated so that I may start project 2! I finished project 1 Monday morning at 2:15am along with the quiz both due at 8am that morning, so just in time, so this time I'm in better shape, in that the next quiz is already done, and if I can get this set up correctly, I hope to complete project 2 before the very last minute! I had gotten started late on project1 due to so much trouble attempting to get VMware and Oracle Virtual Box working, upgrading my SUSE Linux, followed by getting help to make KVM QEMU to work for me instead, so this time, I'm hoping the set up goes more smoothly for me. I did a search on the discussion forum for "qemu" and my questions were the only ones that came up - am I the only one using qemu in this class, or the only one who does not know how to get it set up? In any case - Thank you for your help!

⬆ 0 ⬇ · flag

RAUL E GARCIA Signature Track   · 7 days ago ⚭

Karen - my experience is that the instructions you have for the setup are ok, but you need to 1-disable and firewall and 2-unistall the VM , shutdown and reinstall it again, then follow all the steps as specified. For the cd rom you only need to download the iso image of bad store and add that cd rom and remove the empty item from the IDE. The less you change in the VM the better.

⬆ 0 ⬇ · flag

RAUL E GARCIA Signature Track   · 7 days ago ⚭

Karen - sorry - I assumed you have win 7. I really suggest you try to find a machine with win 7, install the VM and have bad store ready for the questions. It's too easy (the exam) to have so much trouble with Linux installs etc. Note that here what you need on the VM is Ubuntu 32 bit. Not the Mooc etc. Hope this helps. The VM is there to shield you from the unlimited complexities of the OS's.

⬆ 0 ⬇ · flag

Karen West · 7 days ago %

I borrowed my 11 year old's lap top last spring for a class whose tools required Windows and I thought this time - no way - because not only do we have to share it, but I have to deal with all his MineCraft downloads and advertisements! So I'll see how it goes and see if I can get it working on SUSE Linux first, since otherwise I'll have to negotiate sharing a Win7 lap top with an addicted-to-Minecraft 11 year old. ;-) We'll see. We did do that last spring.

⬆ 0 ⬇ · flag

RAUL E GARCIA [Signature Track] · 6 days ago %

I follow - my son has switched to Terraria and was for a long while hooked into Minecraft.

Anyway the sec class is tough enough to waste time on OS issues - get any pc you can hold off and focus on badstore.

Like Malcolm X said: By any means necessary!

It's an easy project.

⬆ 0 ⬇ · flag

+ Comment

Andreas Perstinger · 6 days ago %

Have you tried already starting the BadStore VM with VirtualBox?

⬆ 0 ⬇ · flag

Karen West · 6 days ago %

No - I'll try again - maybe it will like it better than it liked the mooc-vm.vdi. Perhaps the BadStore_212.iso will work better with Virtual Box. I tried it with KVM QEMU and I was not sure how to tweak it, and so far, no one else has had any specific advice for that as they did last time for project 1. So I'll let you know if it works this time for Virtual Box. If it does not work I may have to borrow my 11 year old's lap top to attempt it and that won't be free until he goes back to school on Monday! He has Win7 but it is filled with MineCraft stuff and I'm not sure on the disk space too. I used it last spring for some tools that required Win7, but they did not take much disk space as virtual machine files do. So I'm going to try SUSE Linux now and see if Virtual Box works for project 2.

⬆ 0 ⬇ · flag

Karen West · 6 days ago %

I created the VM using Virtual Box successfully up until the step where you have to create host only networking for your VM. Does anyone know what went wrong here? I think it is the last step before I know if Virtual Box will work for me for project 2.

Failed to create the host network interface.
VBoxNetAdpCtl: Error while adding new interface: VBoxNetAdpCtl: ioctl failed for /dev/vboxnetctl: Inappropriate ioctl for devic.

Result Code:

NS_ERROR_FAILURE (0x80004005)
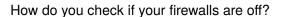
Component:

HostNetworkInterface

Interface:

IHostNetworkInterface {f6e556f9-d598-409b-898c-8ba99d9b05ae}

⬆ 0 ⬇ · flag

RAUL E GARCIA Signature Track · 6 days ago ◎

With the little info provided be sure that you are following each step in the instructions exactly as they are listed. Start with a reinstall of VM (uninstall, reboot). Be sure the firewalls if any are off. It may take some attempts. Even when it works there is a long delay after the eth0 messages... then the bad store server comes up (in the black window). Then you can use a browser for the given IP addr.

⬆ 0 ⬇ · flag

Karen West · 6 days ago ◎

How do you check if your firewalls are off?

What I've been attempting the past few hours has been to download and install Virtual Box and the bad store ISO on my 9 year old daughter's netbook (Ubuntu based) and see if that works any better, which I'll continue tomorrow.

⬆ 0 ⬇ · flag

Andreas Perstinger · 6 days ago ◎

Does it work after manually starting the vboxdrv service with `service vboxdrv start` (probably as root)?

See also http://forums.opensuse.org/showthread.php/488352-VBoxNetAdpCtl-error-while-adding-new-interface

If you still have problems I would recommend to completely uninstall all VirtualBox versions on your system, reboot, install

the VirtualBox version from the Suse software repository and reboot again before starting any virtual machines.

⬆ 0 ⬇ · flag

+ Comment

RAUL E GARCIA [Signature Track] · 5 days ago ⚭

Hi Karen,

Control panel, windows firewall, turn off.

⬆ 0 ⬇ · flag

> Karen West · 5 days ago ⚭   ⚙
>
> So the same would be true on Linux I assume (control panel - turn off firewall). If I don't get it working on either Suse
> Linux (my machine) or my daughter's Ubuntu Linux netbook (CPU is less powerful but may be able to do it!), then on
> Monday when my son goes to school, as long as his lap top that has Win7 on it has enough disk space--if all has failed
> with these Linux machines, I may borrow it to try it then - we will see! He has it filled with so much Minecraft! ;-) And you
> mentioned another game he has not yet discovered to my knowledge that your kids have moved onto- Terraria - have not
> heard of that one yet! It's his way of being social when there is no one to play with! My daughter has gotten into it too -
> but not on the netbook -so I tried that yesterday. More later!
>
> ⬆ 0 ⬇ · flag
>
> + Comment

Karen West · 4 days ago ⚭   ⚙

Good morning! I was able to make progress with installing Oracle's Virtual Box on my daughter's Ubuntu Linux netbook. I followed

the project 2 set up instructions and all worked up until I got stuck at the end of step 3 (pasted here). I was able to create the host only network for the badstore VM, but where I got stuck is in the last sentence here - where it says: "Do the same on your own machine. Likewise select address range as 110 to 200, but using the first 3 octets of the adapter address." I could not find where I do this on the host Ubuntu Linux netbook machine - this is my question for you today, if someone knows how to find this setting on Ubuntu Linux. I did some searching around and could not figure out where to make this network setting. Thank you!

3. Create a HostOnly virtual network.

You will need to configure a HostOnly networking for your VM. You need to do this in two steps. The first is to create the HostOnly network. The next step is to associate that network with your VM.

Details for creating a host-only network are in the VirtualBox manual. First, you must go to the network settings. For Linux or Windows, this will be under "File" -> "Preferences" -> "Network". For Mac OS, the settings are under "VirtualBox" -> "Preferences". Select the Network tab. You will be shown a list of possible networks, including NAT networks, and Host-only Networks. Select Host-only networks, and then click the icon on the right to add one. It will add an entry with a name like vboxnet0.

If you cannot create a host-only network, it may be because the virtualbox kernel drivers are not properly loaded; cf. this blog post. On MacOS, this problem can be fixed by doing `sudo /Library/StartupItems/VirtualBox/VirtualBox restart`.

Select the newly created network entry and edit it by clicking the appropriate icon to the right. There are two panes, one for Adapter, the other for DHCP Server. The Adapter pane will give the IP address for the network, etc. I should be something like 192.168.56.1 with a Subnet mask of 255.255.255.0. The DHCP Server pane will show the DHCP server information. If it is not enabled with the information filled in, then enable it and fill it in as follows:

```
Server Address: 192.168.56.2
Server Mask: 255.255.255.0
Lower Address Bound: 192.168.56.110
Upper Address Bound: 192.168.56.200
```

Notice that the server address is the same as the adapter address, but with 2, rather than 1. Do the same on your own machine. Likewise select the address range as 110 to 200, but using the same first three octets of the adapter address.

⬆ 0 ⬇ · flag

Gwyn Evans · 4 days ago %

Hi - I don't have my Ubuntu system in front of me, but just to be clear, you are looking for the network config within the VB application, not Ubuntu itself, aren't you?

From memory, I just needed to (within VB's application-level settings,) create the host-only network (accepting the default address ranges), then switch to the VM-specific settings to assign that VB to use host-only networking then select that network. (Note that the Windows VB auto creates a suitable network in install, while the Ubuntu VB doesn't.)

⬆ 0 ⬇ · flag

Karen West · 4 days ago %   ⚙

Thanks Gwyn - I think I will next try the next step, unless I'm misunderstanding again? I was able to follow the steps of modifying the badstore network settings to be a host only network as specified above, but what I was not sure about was the host OS on which it is running - mine in this case also being Ubuntu Linux. Do I also need to modify the network config of the host OS on which VB is running? The reason I ask is due to the last line I cut and pasted above - where it says "Do the same on your own machine." - after I just did it within VB - or was I just confusing myself? I think I need to better understand what I'm setting between the network server and adapter so I can be confident it's set up correctly. Thank you!

⬆ 0 ⬇ · flag

Gwyn Evans · 2 days ago %

I'm pretty sure that all I did was

- setup VB's host-only network with default values
- assign it to the VM set to boot from the badstore iso
- booted the VM
- found the IP the VM was using (I think I logged in, but not 100% sure)
- set the IP in the host's /etc/host file (the only host network config I did)
- (maybe reloaded the 'named' server? would have followed either man hosts or man named)

After that, I think it just worked, in that I was able to browse from a browser on the host to the webstore.

⬆ 0 ⬇ · flag

Karen West · 2 days ago ⚯

I'll try this Gwyn - thanks. I've been simultaneously trying to get QEMU to work for me too but on my SUSE Linux machine rather than the Ubuntu Linux machine where VB is running. I seem to have the most trouble with the tools in this class, so far anyway! I handed in project 1 having started late the night before the extended deadline - got it 100% correct but I got a terrible night's sleep that night and was almost late getting my kids up for school the next morning! So it would be great if I could finally start project 2 if I can get this installed correctly so I'm done well before this upcoming Monday deadline. In any case, thank you for the help. I'll let you know if this works.

⬆ 0 ⬇ · flag

Karen West · 2 days ago ⚯

I don't think running VB on the Ubuntu netbook is going to be an option - it's taking FOREVER for it to boot the VM - it's not powerful enough of a machine to run a VM is a guess - either the CPU or perhaps memory is not enough, not sure, but it's at 0% in the boot procedure and although it is booting successfully, my prediction based on this performance is that it won't work due to not enough compute power.

⬆ 0 ⬇ · flag

Karen West · 2 days ago ⚯

So if that is the case - I guess it's back to getting the QEMU working on my SUSE Linux machine which can better handle it with computing performance - however - I have no idea why VB won't work for me this! So that is why I'm trying QEMU again, since that did work here for project 1. I tried VMware for project 1 too and it did not work for me on this SUSE machine and I don't know enough about these things to know the underlying system issues. I have the latest SUSE OS (13.1) too.

⬆ 0 ⬇ · flag

+ Comment

Jesús Ruiz · 4 days ago ⚭

I managed to boot `BadStore.iso` with `qemu` in host-only network mode on a current achlinux system as follows:

Set up a virtual interface at the host side for the host-only network

You need to install the `vde2` package for this. Run the following as root:

```
modprobe tun
vde_switch -daemon -mod 660 -group network -sock /tmp/switch2 --mgmt /tmp/mswitch2
vde_plug2tap --daemon --sock=/tmp/switch2 tap2
ip addr add 10.0.2.10/24 dev tap2
ip link set tap2 up
```

Set up a DHCP server on the host

Use the following config file:

```
# cat dhcpd.conf
subnet 10.0.2.0 netmask 255.255.255.0 {
    option routers 10.0.2.10;
```

```
        option domain-name-servers 192.168.2.1;

        range 10.0.2.15 10.0.2.250;

}
```

Start the server with the config file above as root:

```
dhcpd -cf dhcpd.conf tap2
```

Launch qemu with the BadStore ISO image

As a regular user:

```
$ qemu-system-i386 -net nic,macaddr=52:54:00:00:EE:FF -net vde,vlan=0,sock=/tmp/switch2 -machine accel=kvm -m
1024 -cdrom BadStore_212.iso
```

Add www.badstore.net to /etc/hosts

As explained in the course wiki.

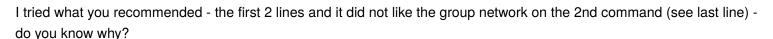⬆ 0 ⬇ · flag

> Karen West · 3 days ago %
>
> I'll try this - thank you! I just saw this now for some reason and somehow missed the alert that must have come in with it
> last night. I've been waiting half the day for the mooc-vm.ova to download to my Ubuntu Linux netbook (slow today for
> some reason) since someone had responded that given I got Oracle Virtual Box to work on that machine that the way to
> approach this project is to run 2 VM's there, the VM from project 1, and the VM that we create with badstore. I'll see what
> works but it would be easier to use my bigger machine if I can get it to work with QEMU since the netbook is a tiny screen
> interface with a slower processor, but if that ended up being what worked - of course I would use it! Currently - KVM
> QEMU works for me on my SUSE Linux 13.1 machine, but I could not get it to work with badstore. So I got my daughter's
> netbook that runs Ubuntu Linux, installed Oracle Virtual Box and badstore and that worked, but then got stuck getting the

networking to work, and then someone commented that I should be using 2 VM's on it to communicate, and I had not realized that as of yet. So that is where I am now - still downloading the VM to the netbook, and I just received this comment on how to get it to work on my desk top machine that runs SUSE Linux and QEMU - so I'll try it and let you know if it works. Thanks for the detailed response! ;-) I honestly have been having more trouble getting the environment set up to do the projects than doing the projects themselves, but I understand the need in a huge MOOC - and in setting up these environments - if you get through it successfully - you learn from that too.

⬆ 0 ⬇ · flag

Karen West · 3 days ago %

I tried what you recommended - the first 2 lines and it did not like the group network on the 2nd command (see last line) - do you know why?

scary:/home/karen/dev/softwareSecurity # modprobe tun

scary:/home/karen/dev/softwareSecurity # zypper install vde2
Loading repository data...
Reading installed packages...
Resolving package dependencies...

The following 5 NEW packages are going to be installed:
  libvdehist0 libvdemgmt0 vde2 vde2-cryptcab vde2-slirp

The following 2 recommended packages were automatically selected:
  vde2-cryptcab vde2-slirp

5 new packages to install.
Overall download size: 279.8 KiB. After the operation, additional 772.1 KiB will be used.
Continue? [y/n/? shows all options] (y): y
Retrieving package libvdehist0-2.3.2-5.1.2.x86_64   (1/5), 25.9 KiB (56.5 KiB unpacked)

Retrieving: libvdehist0-2.3.2-5.1.2.x86_64.rpm ....[done]
Retrieving package libvdemgmt0-2.3.2-5.1.2.x86_64   (2/5), 25.7 KiB (57.1 KiB unpacked)
Retrieving: libvdemgmt0-2.3.2-5.1.2.x86_64.rpm ....[done]
Retrieving package vde2-cryptcab-2.3.2-5.1.2.x86_64   (3/5), 28.5 KiB (63.0 KiB unpacked)
Retrieving: vde2-cryptcab-2.3.2-5.1.2.x86_64.rpm ....[done]
Retrieving package vde2-slirp-2.3.2-5.1.2.x86_64   (4/5), 47.4 KiB (95.6 KiB unpacked)
Retrieving: vde2-slirp-2.3.2-5.1.2.x86_64.rpm ....[done]
Retrieving package vde2-2.3.2-5.1.2.x86_64   (5/5), 152.3 KiB (499.9 KiB unpacked)
Retrieving: vde2-2.3.2-5.1.2.x86_64.rpm ....[done]
(1/5) Installing: libvdehist0-2.3.2-5.1.2 ....[done]
(2/5) Installing: libvdemgmt0-2.3.2-5.1.2 ....[done]
(3/5) Installing: vde2-cryptcab-2.3.2-5.1.2 ....[done]
(4/5) Installing: vde2-slirp-2.3.2-5.1.2 ....[done]
(5/5) Installing: vde2-2.3.2-5.1.2 ....[done]

scary:/home/karen/dev/softwareSecurity # vde_switch -daemon -mod 660 -group network -sock /tmp/switch2 --mgmt
/tmp/mswitch2
No such group 'network'

⬆ 0 ⬇ · flag

Karen West · 3 days ago 🔗

Also saw:

scary:/home/karen/dev/softwareSecurity # vde_switch ?
Usage: vde_switch [OPTIONS]
Runs a VDE switch.
(global opts)
  -h, --help   Display this help and exit

```
 -v, --version          Display informations on version and exit
 -n  --numports         Number of ports (default 32)
 -x, --hub              Make the switch act as a hub
 -F, --fstp             Activate the fast spanning tree protocol
    --macaddr MAC       Set the Switch MAC address
    --priority N        Set the priority for FST (MAC extension)
    --hashsize N        Hash table size
(opts from datasock module)
 -s, --sock SOCK        control directory pathname
 -s, --vdesock SOCK     Same as --sock SOCK
 -s, --unix SOCK        Same as --sock SOCK
 -m, --mode MODE        Permissions for the control socket (octal)
    --dirmode MODE      Permissions for the sockets directory (octal)
 -g, --group GROUP      Group owner for comm sockets
(opts from consmgmt module)
 -d, --daemon           Daemonize vde_switch once run
 -p, --pidfile PIDFILE  Write pid of daemon to PIDFILE
 -f, --rcfile           Configuration file (overrides /etc/vde2/vde_switch.rc and ~/.vderc)
 -M, --mgmt SOCK        path of the management UNIX socket
    --mgmtmode MODE     management UNIX socket access mode (octal)
    --mgmtgroup GROUP   management UNIX socket group name
(opts from tuntap module)
 -t, --tap TAP          Enable routing through TAP tap interface

Report bugs to info@v2.cs.unibo.it
```

⬆ 0 ⬇ · flag

Jesús Ruiz . 3 days ago %

Your system does not have a network group. You can work around that by substituting `-mod 660 -group network` with `-mod 666` above. Note that this makes the vde switch read/write for everyone.

⬆ 0 ⬇ · flag

Karen West . 3 days ago %

Thanks - I'll try it again.

⬆ 0 ⬇ · flag

Karen West . 3 days ago %

It worked fine until the step:

scary:/home/karen/dev/softwareSecurity # vde_switch -daemon -mod 666 -sock /tmp/switch2 --mgmt /tmp/mswitch2
scary:/home/karen/dev/softwareSecurity # vde_plug2tap --daemon --sock=/tmp/switch2 tap2
scary:/home/karen/dev/softwareSecurity # ip addr add 10.0.2.10/24 dev tap2
scary:/home/karen/dev/softwareSecurity # ip link set tap2 up
scary:/home/karen/dev/softwareSecurity # emacs dhcpd.conf &
[1] 8332 -->added to this file the lines:

```
# cat dhcpd.conf
subnet 10.0.2.0 netmask 255.255.255.0 {
    option routers 10.0.2.10;
    option domain-name-servers 192.168.2.1;
    range 10.0.2.15 10.0.2.250;
}
```

But when I tried to run it - I realized I must have done something wrong? I thought I followed what you said to do. Also note - sometime if you get the chance to explain what I'm doing to set this up to work - I'm following your instructions blindly to get the environment to work so I can then do project 2 - but it would be great to also understand what I am doing here to get this to work - since I don't quite get it! ;-)

scary:/home/karen/dev/softwareSecurity # dhcpd -cf dhcpd.conf tap2
If 'dhcpd' is not a typo you can use command-not-found to lookup the package that contains it, like this:
  cnf dhcpd
[1]+ Done

scary:/home/karen/dev/softwareSecurity # ./dhcpd -cf dhcpd.conf tap2
bash: ./dhcpd: No such file or directory
[1]+ Done   emacs dhcpd.conf

So then I checked my directory to be sure this file was there and it was:

scary:/home/karen/dev/softwareSecurity # ls
BadStore_212.iso   mooc-vm   QEMU_InstallationOnLinux.pdf
convertVmdk3ToVmdk2.pdf   mooc-vm-disk2.img   startQemuCommand.txt
courseInfo   mooc-vm-disk2.vmdk vmdk3-hack.sh
dhcpd.conf   mooc-vm.ova   week0
.directory   mooc-vm.ovf   week1
errorMakingHostOnlyNetworkForVMproj2SoftwareSecurity.docx project1   week2
gettingVMToWorkOnSuseLinux_SoftwareSecurityDiscForum.pdf   project2   week3
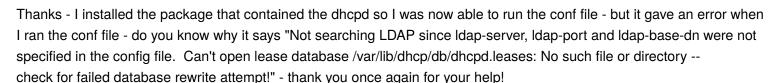
⬆ 0 ⬇ · flag

Jesús Ruiz . 3 days ago %

You should install the package containing `dhcpd` , as hinted by:

> If 'dhcpd' is not a typo you can use command-not-found to lookup the package that contains it, like this:
>
> cnf dhcpd

(note that `./dhcpd` tries to execute a command named `dhcpd` in the current directory, which does not exist indeed).

⬆ 0 ⬇ · flag

Karen West . 2 days ago %

Thanks - I installed the package that contained the dhcpd so I was now able to run the conf file - but it gave an error when I ran the conf file - do you know why it says "Not searching LDAP since ldap-server, ldap-port and ldap-base-dn were not specified in the config file. Can't open lease database /var/lib/dhcp/db/dhcpd.leases: No such file or directory -- check for failed database rewrite attempt!" - thank you once again for your help!

scary:/home/karen/dev/softwareSecurity # cnf dhcpd

The program 'dhcpd' can be found in following packages:
  * dhcp-server [path: /usr/sbin/dhcpd, repository: zypp (repo-oss)]
  * dhcp-server [path: /usr/sbin/dhcpd, repository: zypp (repo-update)]

Try installing with:
    zypper install dhcp-server

scary:/home/karen/dev/softwareSecurity # zypper install dhcp-server
Loading repository data...

Reading installed packages...
Resolving package dependencies...

The following NEW package is going to be installed:
  dhcp-server

1 new package to install.
Overall download size: 800.3 KiB. After the operation, additional 2.0 MiB will be used.
Continue? [y/n/? shows all options] (y): y
Retrieving package dhcp-server-4.2.5.P1-0.6.9.1.x86_64   (1/1), 800.3 KiB (2.0 MiB unpacked)
Retrieving: dhcp-server-4.2.5.P1-0.6.9.1.x86_64.rpm ....[done (674.3 KiB/s)]
(1/1) Installing: dhcp-server-4.2.5.P1-0.6.9.1 ....[done]
Additional rpm output:
Updating /etc/sysconfig/dhcpd...
Updating /etc/sysconfig/syslog...

scary:/home/karen/dev/softwareSecurity # dhcpd -cf dhcpd.conf tap2
Internet Systems Consortium DHCP Server 4.2.5-P1
Copyright 2004-2013 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/
Not searching LDAP since ldap-server, ldap-port and ldap-base-dn were not specified in the config file
Can't open lease database /var/lib/dhcp/db/dhcpd.leases: No such file or directory --
  check for failed database rewrite attempt!
Please read the dhcpd.leases manual page if you
don't know what to do about this.

If you did not get this software from ftp.isc.org, please
get the latest from ftp.isc.org and install that before

requesting help.

If you did get this software from ftp.isc.org and have not
yet read the README, please read it before requesting help.
If you intend to request help from the dhcp-server@isc.org
mailing list, please read the section on the README about
submitting bug reports and requests for help.

Please do not under any circumstances send requests for
help directly to the authors of this software - please
send them to the appropriate mailing list as described in
the README file.

exiting.

scary:/home/karen/dev/softwareSecurity # more dhcpd.conf
# cat dhcpd.conf
subnet 10.0.2.0 netmask 255.255.255.0 {
    option routers 10.0.2.10;
    option domain-name-servers 192.168.2.1;
    range 10.0.2.15 10.0.2.250;
}
scary:/home/karen/dev/softwareSecurity #

⬆ 0 ⬇ · flag

Jesús Ruiz · 2 days ago ⚭

Can't open lease database /var/lib/dhcp/db/dhcpd.leases: No such file or directory

You can try to create the path leading to dhcpd.leases and try again.

Quite frankly, I think you would be better served by using VirtualBox for this project. You just need project's 2 VM for that.

⬆ 0 ⬇ · flag

Karen West · 2 days ago ✑

I'm not sure if you saw the discussion that went on the forum - but Virtual Box would not work for me on SUSE Linux. More details on that later since perhaps you may know that answer. I tried VB on my Ubuntu Linux netbook but it was too low on CPU and memory performance to run VB. Thank you in any case with your help with QEMU.

⬆ 0 ⬇ · flag

Karen West · a day ago ✑

I'm wondering why my dhcp.leases file is under vmware - don't know enough about my system to know. I'm going to try to add this to my PATH environment variable - is that what you recommended?

scary:/home/karen/dev/softwareSecurity # find / -name dhcpd.leases -print
/etc/vmware/vmnet1/dhcpd/dhcpd.leases
/etc/vmware/vmnet8/dhcpd/dhcpd.leases
find: '/run/user/1000/gvfs': Permission denied
find: '/var/run/user/1000/gvfs': Permission denied
scary:/home/karen/dev/softwareSecurity #

⬆ 0 ⬇ · flag

Karen West · a day ago ✑

I have some info. on my dhcp leases - do I need to move the dhcpd.leases file from: /etc/vmware/vmnet1/dhcpd or /etc/vmware/vmnet8/dhcpd - or do I need to re-direct the program you told me to run: dhcpd -cf dhcpd.conf tap2 to instead look for the dhcpd.leases file in the /etc/vmware/vmnet1 (or vmnet8)/dhcpd dir? This program can't find the dhcpd.leases where it is looking for it.

scary:/home/karen/dev/softwareSecurity # ls -l /var/lib/dhcp/dhclient.leases
-rw-r--r-- 1 root root 0 Mar 6 2013 /var/lib/dhcp/dhclient.leases

scary:/home/karen/dev/softwareSecurity # echo "$PATH"
/usr/lib64/mpi/gcc/openmpi/bin:/home/karen/bin:/usr/local/bin:/usr/bin:/sbin:/usr/sbin:/bin:/usr/bin/X11:/usr/X11R6/bin:/usr/games:/opt/kde3/bin:/etc/vmware/vmnet1/dhcpd:/etc/vmware/vmnet8/dhcpd

scary:/home/karen/dev/softwareSecurity # ls -l /etc/vmware/vmnet1
total 4
drwxr-xr-x 2 root root 4096 Nov 19 06:20 dhcpd

scary:/home/karen/dev/softwareSecurity # ls -l /etc/vmware/vmnet1/dhcpd
total 12
-rw-r--r-- 1 root root 1581 Oct 31 12:14 dhcpd.conf
-rw-r--r-- 1 root root 417 Nov 19 06:20 dhcpd.leases
-rw-r--r-- 1 root root 417 Nov 18 06:17 dhcpd.leases~

scary:/home/karen/dev/softwareSecurity # ls -l /etc/vmware/vmnet8/dhcpd
total 12
-rw-r--r-- 1 root root 1681 Oct 31 12:14 dhcpd.conf
-rw-r--r-- 1 root root 417 Nov 19 06:20 dhcpd.leases
-rw-r--r-- 1 root root 417 Nov 18 06:17 dhcpd.leases~

scary:/home/karen/dev/softwareSecurity # dhcpd -cf dhcpd.conf tap2
Internet Systems Consortium DHCP Server 4.2.5-P1

Copyright 2004-2013 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/
Not searching LDAP since ldap-server, ldap-port and ldap-base-dn were not specified in the config file
Can't open lease database /var/lib/dhcp/db/dhcpd.leases: No such file or directory --
   check for failed database rewrite attempt!
Please read the dhcpd.leases manual page if you
don't know what to do about this.

If you did not get this software from ftp.isc.org, please
get the latest from ftp.isc.org and install that before
requesting help.

If you did get this software from ftp.isc.org and have not
yet read the README, please read it before requesting help.
If you intend to request help from the dhcp-server@isc.org
mailing list, please read the section on the README about
submitting bug reports and requests for help.

Please do not under any circumstances send requests for
help directly to the authors of this software - please
send them to the appropriate mailing list as described in
the README file.

exiting.
scary:/home/karen/dev/softwareSecurity #

The dhcp leases in the directory that dhcpd is referencing seem to be old? :
scary:/home/karen/dev/softwareSecurity # ls -l /var/lib/dhcp/dhclient.leases
-rw-r--r-- 1 root root 0 Mar 6 2013 /var/lib/dhcp/dhclient.leases

scary:/home/karen/dev/softwareSecurity # ls -l /var/lib/dhcp > dhcpLeases.out

There are some dhcp leases from today (Nov. 19, 2014) in this directory that look like:
scary:/home/karen/dev/softwareSecurity # more dhcpLeases.out | grep "Nov 19"
drwxr-xr-x 2 root root 4096 Nov 19 06:20 dev
-rw-r--r-- 1 root root 856 Nov 19 2013 dhclient-0fd7ccc1-863a-4af0-9064-9e487538eec3-eth1.lease
-rw-r--r-- 1 root root 428 Nov 19 2013 dhclient-93e8d48f-7991-49aa-adfe-7b695256c8f7-eth1.lease
scary:/home/karen/dev/softwareSecurity #

⬆ 0 ⬇ · flag

Karen West · a day ago 🔗   ⚙

Also - in regard to your comment earlier "Quite frankly, I think you would be better served by using VirtualBox for this project. You just need project's 2 VM for that."

The reason I've been following your advice trying to get QEMU to work for me as it did for project 1 is because 5 days ago, I posted in regard to to trying to get VB to work for me for project 2:

In the above comment stream (5 days ago from me):
I created the VM using Virtual Box successfully up until the step where you have to create host only networking for your VM. Does anyone know what went wrong here? I think it is the last step before I know if Virtual Box will work for me for project 2.

Failed to create the host network interface.
VBoxNetAdpCtl: Error while adding new interface: VBoxNetAdpCtl: ioctl failed for /dev/vboxnetctl: Inappropriate ioctl for devic.

Result Code:

NS_ERROR_FAILURE (0x80004005)

Component:

HostNetworkInterface

Interface:

IHostNetworkInterface {f6e556f9-d598-409b-898c-8ba99d9b05ae}

Someone said in response - but this link was not helpful for making this work - so if you have any further advice since you commented earlier that perhaps I should use VB, please let me know, since I had trouble adding the host only network for the bad store VM when I was using VB on SUSE Linux.

Does it work after manually starting the vboxdrv service with `service vboxdrv start` (probably as root)?

See also http://forums.opensuse.org/showthread.php/488352-VBoxNetAdpCtl-error-while-adding-new-interface

If you still have problems I would recommend to completely uninstall all VirtualBox versions on your system, reboot, install the VirtualBox version from the Suse software repository and reboot again before starting any virtual machines.

Today is Wed. and this is due Mon. If I don't get it working soon, I won't be able to submit project 2. I got 100% on project 1, once I got QEMU to work for me (which took awhile too). If I can't attempt project 2 since I can't get the VM's to cooperate, I guess I will then have to evaluate either dropping this class even though I've been doing well up to now, or otherwise take a zero on project 2?

⬆ 0 ⬇ · flag

Gwyn Evans · a day ago ⚯

One alternative route you may have overlooked, but would work with two local systems, would be to burn the BadStore ISO to CD then just boot one of your machines from the CD. It'll pickup an IP address by DHCP then you can browse to it from another machine, although you may want to set the ip address in the browser system's 'hosts' file to have 'www.badstore.net' to map to it correctly.

See the BadStore manual for details, but it's a supported way of running it...

⬆ 0 ⬇ · flag

Jesús Ruiz · 14 hours ago ⚯

> Can't open lease database /var/lib/dhcp/db/dhcpd.leases: No such file or directory --

You have a typo in the path you are looking at, it's missing `/db/` .

The advice from Gwyn would also work.

⬆ 0 ⬇ · flag

Karen West · 14 hours ago ⚯   ⚙

Actually Jesus - the script you said I should run: dhcpd -cf dhcpd.conf tap2
refers to: /var/lib/dhcp/db/dhcpd.leases
and that directory is NOT in my set up - so there is no typo - except in that script you asked me to run.
Do you know how I can modify that? That is the reason I provided you yesterday with the locations of where
my dhcpd.leases files were located (see above from yesterday) - in the event that that script could be modified
to point to those instead. So let me know. Today I've negotiated with my 11 year old son to trade computers -
when he gets out of his half day of school, he can play Minecraft on my SUSE Linux, if I'm able to get the VMs
to work on his old Win7 lap top (see post on that topic below). Also - I saw Gwyn's post yesterday and thought

it may be something to try - except that I did not have any specifics on how to set up her recommendations. For example, she said: "One alternative route you may have overlooked, but would work with two local systems, would be to burn the BadStore ISO to CD" -- what commands do that -- is it what we were told to do in the instructions given in the assignment - a virtual CD? Or does she mean a physical CD? I don't have a CD in any machine I have access to in my house at this time. And she then said: "then just boot one of your machines from the CD." --if it is a virtual CD rather than physical CD, she lost me there, and even if it's physical, I'm not sure I'm clear what she means to do there. She then said: "It'll pickup an IP address by DHCP then you can browse to it from another machine, although you may want to set the ip address in the browser system's 'hosts' file to have 'www.badstore.net' to map to it correctly." So although from a conceptual level I understand about picking up the dynamic IP addresses within the DHCP protocol - I'm not clear on what I need to do to make this work - she has much more knowledge and experience in what she is talking about and I would like to try it (if no physical CD is required since I don't have that in my machine) but I once again would need yours or her advice! Today though I've given up and I'm attempting it on my son's machine, but I really would love to learn from my experiences of trying to get it to work on Linux, since I see the gaps in my networking of VMs knowledge amongst other things that I would like to fill in from this experience, but then again - the deadline for project 2 - which is not on this topic - it's in regard to software security on the web - is due Mon., and it's already Thurs., and I have not been able to start it yet. So I would stick like to know where I've gone wrong - but today I'm just setting it aside and trying my son's Win7 lap top, since on my own without advice from others, I do not know how to solve the issues I'm having on Linux to get it set up correctly. Perhaps if it works today on Win7 and I submit project 2, I can then come back to learn from the experience of where I went wrong to make it work on Linux.

Gwyn also said:

"See the BadStore manual for details, but it's a supported way of running it..." -- but today I'm not going to dig into the bad store manual, since I"m running out of time here, and it it works on my son's lap top, for this time, I'm just going to do it there.

I do appreciate both of your responses! ;-)

⬆ 0 ⬇ · flag

Jesús Ruiz · 14 hours ago ⚭

Actually Jesus - the script you said I should run: dhcpd -cf dhcpd.conf tap2 refers to: /var/lib/dhcp/db

> /dhcpd.leases and that directory is NOT in my set up - so there is no typo - except in that script you asked me to run.

I meant you should create the base dir dhcpd is asking for:

```
mkdir -p /var/lib/dhcp/db/
```

⬆ 0 ⬇ · flag

Karen West · 13 hours ago %

So the file that this step is creating will place the dhcpd.leases in that dir I create that is not there now? I just wanted to clarify that I don't need to copy the dhcpd.leases file into that dir - remember I don't really understand the steps I'm taking here (although I would like to eventually!) I've learned about DHCP from a conceptual level but did not know what this tool was doing here!

⬆ 0 ⬇ · flag

Jesús Ruiz · 12 hours ago %

Exactly. You souldn't mix lease files from different programs.

⬆ 0 ⬇ · flag

+ Comment

Karen West · 3 days ago %

I received advice to use project 1's VM with project 2's. So I got Oracle Virtual Box to work with badstore VM on my Ubuntu Linux netbook. However, when I tried to import the mooc-vm.ova into it too, it gave me an error. So that advice to use these 2 VM's

together to do project 2 did not work for me on the Ubuntu Linux netbook. If there is a way to do it without using 2 VM's for project 2 please let me know. For now, I'm going to try the above advice that gave instructions to set up the environment using QEMU and see how that goes.

⬆ 0 ⬇ · flag

+ Comment

Karen West · 14 hours ago ⚙

Today's attempt is going to be to trade computers with my 11 year old - I'll take his Win7 lap top and install the VB tools there and see if they install correctly for me - and he can play Minecraft on my SUSE Linux machine when he gets out of his half day of school (parent teacher conference day!). It's the Thurs. before project 2 is due and I have not started yet! This is exactly what happened with project 1 - but in that case, just in time, the tools worked, and by losing a bit of sleep, I got 100% on the project.   We'll see. It would be a shame to have to drop this class after all the effort I've put in already and I'm actually not doing all that bad, with the quiz grades and project 1. So we'll see. It would not be the first time I've had to drop due to these issues, if that happens. But I'll try again today. I suppose if I knew more about systems and software installations and how to set up the networking communications between the VM's, host computers, etc, then perhaps I would have been able to get it to work on Linux. Perhaps everyone else in the class knows these things better than I do but perhaps in the end I will learn something from the troubles I've had installed the tools to run the VM's and make them communicate. But in doing so it would be a shame not to have met the actual goal in taking the course, which was to attempt the security parts of the provided projects. So I'll make another attempt today and see if I can get it going on my son's old Win7 lap top. Some people have said to me that they are not any more experienced than I am to set up the networking among the VMs, but that they just followed the provided instructions and everything worked without issue. So maybe that will happen today. I would love to know where I went wrong though with the set up on SUSE Linux, to learn from that experience. But the goal in this class is to learn about software security - so I'm trying to get there.

⬆ 0 ⬇ · flag

+ Comment

Karen West · 10 hours ago ⚙

It worked without issue on my son's Win7 machine - not sure what was wrong on my SUSE Linux, but I'll figure it out later! Thank you for your patience! ;-) Now I can attempt project 2.

⬆ 0 ⬇ · flag

+ Comment

New post

To ensure a positive and productive discussion, please read our forum posting policies before posting.

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