

VMware Configuration for De-ICE Penetration Testing Lab LiveCD's

Important note! These instructions are for running the De-ICE ISO's in VMware Workstation 5.5 for Linux. The Windows version is similar, but is GUI based. Instructions on configuring a VMware network in Windows is provided here:

http://www.VMware.com/support/ws55/doc/ws_net_advanced.html

For Windows you can still follow the directions below, however, you will need to reference the screen shots from the link above. Just be sure to set up your virtual network on vmnet2.

Other Considerations

These instructions walk you through the virtual network configuration from a default installation of VMware Workstation 5.5 for Linux (my installation was on Suse 10.2). If you have modified or removed any of the networking components in VMware, you will need to reinstall these prior to following these directions.

In addition, to follow these instructions you need to have a working installation of VMware Workstation! If you cannot launch VMware then you need to resolve those issues prior to performing these instructions!

STEP 1 – Configure the De-ICE virtual network on vmnet2

***This can actually be any open virtual network in your VMware installation. We selected vmnet2 since this network is not installed with a default install of VMware.**

Run **VMware-config.pl** (as root) which should be located in **/usr/bin/**

Accept all the defaults until you get to the following question:

Do you want networking for your virtual machines? (yes/no/help) [yes]

Select “yes”

Would you prefer to modify your existing networking configuration using the wizard or the editor? (wizard/editor/help) [editor]

Select “editor”

:q to get out of text mode

Do you wish to make any changes to the current virtual networks settings (yes/no) [yes]

Select “yes”

Which virtual network do you wish to configure? (0-99)

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Select "2"

What type of virtual network do you wish to set vmnet2? (bridged,hostonly,nat,none) [hostonly]

Select "hostonly"

Do you want this program to probe for an unused private subnet? (yes/no/help) [no]

Select "no"

What will be the IP address of your host on the private network?

Type in: 192.168.1.1

What will be the netmask of your private network?

Type in: 255.255.255.0

:q to quit text mode

Do you wish to make additional changes to the current virtual networks settings? [no]

Select "no"

VMware will then recompile itself and you should be ready to move on to the next section.

STEP 2 – Configure DHCP for the vmnet2 network

Stop the VMware services. Depending on your Linux installation this will be as follows:

- Suse: service VMware stop
- Other Linux: /etc/init.d/VMware stop

Change directory to **/etc/VMware/vmnet2/dhcpd**

As root open up **dhcpd.conf** located in /etc/VMware/vmnet2/dhcpd with your favorite text editor (vi, nano, etc...)

Change the **subnet** section in dhcp.conf to match the following:

```
subnet 192.168.1.0 netmask 255.255.255.0 {  
    range 192.168.1.2 192.168.1.254;  
    option broadcast-address 192.168.1.255;  
    option domain-name-servers 192.168.1.1;  
    option domain-name "localdomain";
```

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192.168.1.2 is the DHCP starting range required by the De-ICE network.

Start the VMware services. Depending on your Linux installation this will be as follows:

- Suse: service VMware start
- Other Linux: /etc/init.d/VMware start

*If you had vmnet2 (or any other virtual network that you selected) previously configured, make sure you remove any dhcp lease entries in the **dhcpd.leases** file!

STEP 3 – Install the De-ICE Live CD and BackTrack Live CD in VMware

Fire up VMware and create a new virtual machine.

Select “**Other Linux 2.6x Kernel**” for the OS.

Select “**Host Only Networking**”

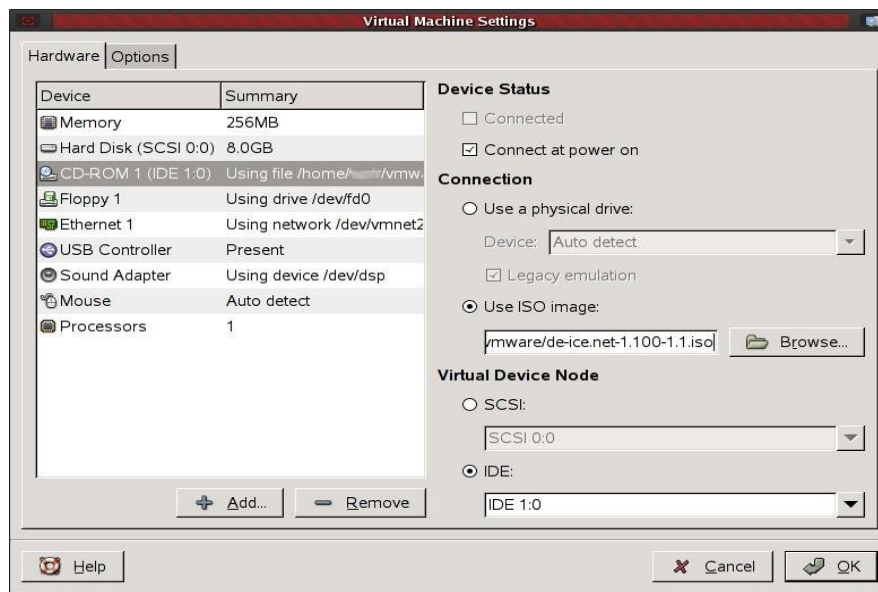
Configure hard disk space per your requirements. We suggest just a 2GB size for the LiveCD.

Finish through the wizard.

Click on the “Edit virtual machine settings” button on the VM you just created.

Select the CD-ROM drive. Click on the “Use ISO image” radio button and navigate and select the De-ICE Live CD ISO image (**Figure 1**). We suggest that you place the ISO images in the same folder as your Virtual Machine files that were created at the beginning of **STEP 3**.

Figure 1. Selecting the De-ICE Live CD ISO Image

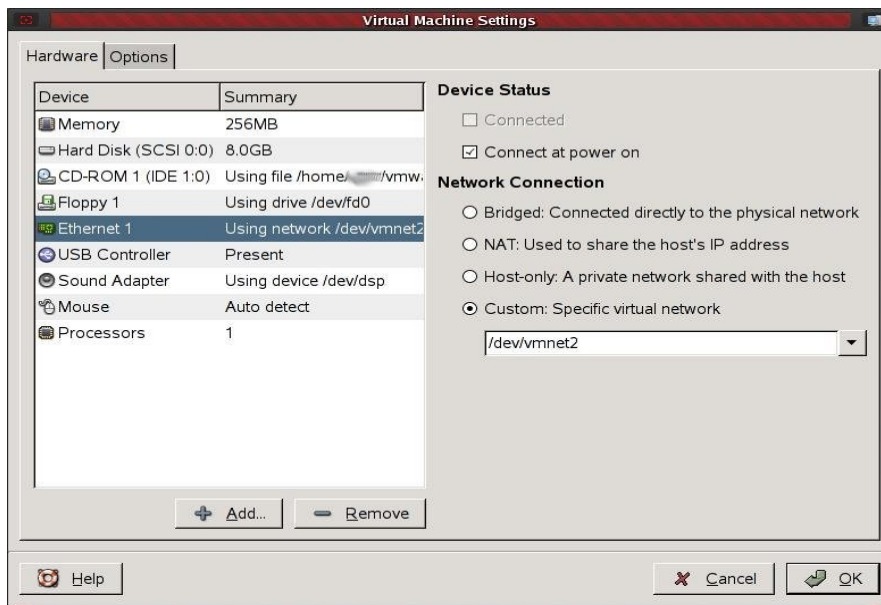


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Select the “Ethernet1” settings and select “/dev/vmnet2” for your virtual network.

***If you selected another virtual network in STEP 1, select that network instead!**

Figure 2. Selecting the virtual network vmnet2.



STEP 4 – Repeat STEP 3 for the BackTrack ISO!

STEP 5 – Power on the Virtual Machines

First, power on the De-ICE Live CD. Make sure it loads to the command line. Note: You will see a message about the CD getting a dhcp address, this isn't the case..it just looks like it. Fear not and get ready to boot up your Backtrack Live CD.

STEP 6 – Ready to Hack!

You can now begin to hack the 192.168.1.xx De-ICE Live CD from BackTrack.

CREDITS

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LiveCD Downloads and Forums: <http://www.de-ice.net>