

# Linux® Virtual Machine Images for Evaluating Centeris® Likewise™ 1.0

To help you experience the ease of Linux management from Windows® with Centeris Likewise, we have created Linux virtual machine images for use with VMWare® Player. The virtual machine images (VM's) are minimal installations based on the open source distributions SUSE Linux OSS 10 and Fedora Core 4. With these VM's you will be able to:

- Run a pre-configured, working Linux VM installation on a Windows Desktop
- Connect to the Linux VM from the Centeris Likewise Console with root credentials.
- With a properly configured network and a Domain Administrator account, join the Linux VM to your Active Directory Domain.
- Manage the Linux VM with the Centeris Likewise Console and Windows MMC including tasks such as:
  - Create and modify a Linux based Windows accessible file share
  - Create and modify a Linux based Windows accessible shared printer
  - Create an Apache virtual host

## System Requirements for VMWare Player and the SUSE 10 OSS VM Image:

- 1GB of RAM
- 4GB of disk space
- VMWare Workstation 5.x or VMWare Player (included on this disc).
- Centeris Likewise Trial (included on this disc).

## Installing VMPlayer:

If you do not have another VMWare product, VMPlayer is included on this disc and can be installed directly by launching the file **VMware-player-1.0.1-19317.exe** from the root of the disc. It can also be downloaded from <http://www.vmware.com/products/player>. The rest of this document assumes you have installed VMWare Player on your Windows Desktop.

## Installing Centeris Likewise:

Centeris Likewise is included on this disc and can be installed directly by choosing "Install Likewise Trial" from the DVD menu. It can also be downloaded from <http://www.centeris.com/freetrial>. The rest of this document assumes you have installed Centeris Likewise on your Windows Desktop.

## How to use SUSE Linux OSS 10 in a VMWare Virtual Machine with Centeris Likewise:

SUSE Linux OSS is a free Linux based operating system, available from <http://www.opensuse.org>.

This VM has been minimally configured with the Centeris Likewise Agent installed. Using this VM implies acceptance of the SUSE EULA (included as suse-eula.txt on this disc).

### *Installing the VM Image*

1. From the root of the DVD, copy the archive file LWSUSEOSS.zip to your hard drive
2. Expand the file to your desktop (example: Right-Click->Extract All). This may take up to 5 minutes.
3. Run VMWare Player, browse to the expanded directory and select "SUSE Linux.vmx".
4. You may be asked to "create, keep, always create or always keep a UUID" - you should respond "create" to avoid duplication of the MAC address for the virtual network card.
5. You will now see SUSE Linux 10 booting up within the VMPlayer.

### *Setting up the VM Network as "Bridged"*

If you choose to set up the VM "bridged", the VM becomes a participant on your host computer's network. The advantages to this arrangement include the ability to view and access the Linux VM from all other computers on the same network and participate with Active Directory in that network. If you choose "host only" you may only be able to access the Linux VM with root credentials from the host computer desktop. It is not recommended to choose "NAT" to evaluate Centeris Likewise.

1. For username enter "**root**" and for password enter "**likewise**" to log in into the Gnome desktop.
2. From the menu bar in VMPlayer, select the "Ethernet" menu, confirm check that the network device is "Connected" and "Bridged"  
*for VMWare Workstation users, you will have the opportunity to edit machine settings before starting the Virtual Machine.*
3. Within Gnome desktop menu bar, select "Desktop->Yast"
4. Within Yast Control Center, select Network Devices and click on Network Card
5. Edit the network settings for the host network adapter (example: AMD PCnet - Fast 79C971)
6. Choose DHCP or Static Address Setup according to your network environment.
7. Change the Host Name and Name Server according to your network environment.
8. Click Next to accept these settings.
9. Test your network connection. From a Linux shell (example from Gnome Desktop: "Applications->System->Terminal->Gnome Terminal") run "ping" against a known network host, such as a Windows domain controller for your network (example: ping corp.centeris.com)
10. Make a note of your IP address if you've used DHCP. This can be observed by running "ifconfig -a" from a Linux shell and looking at the primary ethernet setting (example: eth0).
11. Add the hostname set in step 7 to your DNS.

### *Connect to the VM with Centeris Likewise and join the VM to your Active Directory*

1. Install Centeris Likewise from this disc by choosing "Install Likewise Trial" from the DVD menu.
2. From your Windows Desktop, launch Centeris Likewise.
3. Connect to the Linux VM via the DNS name or IP address set up in the previous section by selecting "File->Add Server" from the Centeris Likewise Console.

4. When asked for "Domain Administrator or root" credentials, use user name "**root**" and password "**likewise**".
5. Click on the "System" tab and the "Computer Name & Domain" subtab.
6. Enter the Computer Name, Windows Domain and a Windows Domain Administrator username and password.
7. Click on "Join Domain".

## How to use Fedora Core 4 Linux in a VMWare Virtual Machine with Centeris Likewise:

Fedora Core 4 is a free Linux based operating system, available from <http://www.redhat.com/fedora>. This VM has been minimally configured with the Centeris Likewise Agent installed. Using this VM implies acceptance of the Fedora EULA (included as fedora-eula.txt on this disc).

### *Installing the VM Image*

1. From the root of the DVD, copy the archive file LWFEDORA.zip to your hard drive
2. Expand the file to your desktop (example: Right-Click->Extract All). This may take up to 5 minutes.
3. Run VMWare Player, browse to the expanded directory and select "likewise-fedora.vmx".
4. You may be asked to "create, keep, always create or always keep a UUID" - you should respond "create" to avoid duplication of the MAC address for the virtual network card.
5. You will now see Fedora Core 4 booting up within the VMPlayer. You may experience delays up to 8 minutes the first time you start.

### *Setting up the VM Network as "Bridged"*

If you choose to set up the VM "bridged", the VM becomes a participant on your host computer's network. The advantages to this arrangement include the ability to view and access the Linux VM from all other computers on the same network and participate with Active Directory in that network. If you choose "host only" you may only be able to access the Linux VM with root credentials from the host computer desktop. It is not recommended to choose "NAT" to evaluate Centeris Likewise.

1. For username enter "**root**" and for password enter "**likewise**" to log in into the Gnome desktop.
2. From the menu bar in VMPlayer, select the "Ethernet" menu, confirm check that the network device is "Connected" and "Bridged"  
*for VMWare Workstation users, you will have the opportunity to edit machine settings before starting the Virtual Machine.*
3. Within Gnome desktop menu bar, select "Desktop->System Settings->Network"
4. Within Network Configuration, select New and choose Ethernet Connection
5. Select the host network adapter (example: Advanced Micro Devices [AMD] 79c970 [PCnet32 LANCE](eth0))
6. Choose DHCP or Static Address Setup according to your network environment.
7. Change the Host Name and Name Server according to your network environment.
8. Activate the device (example: eth0).
9. Test your network connection. From a Linux shell (example from Gnome Desktop:

- "Applications->System Tools->Terminal") run "ping" against a known network host, such as a Windows domain controller for your network (example: ping corp.centeris.com)
10. Make a note of your IP address if you've used DHCP. This can be observed by running "ifconfig -a" from a Linux shell and looking at the primary ethernet setting (example: eth0).
  11. Add the hostname set in step 7 to your DNS.

### *Connect to the VM with Centeris Likewise and join the VM to your Active Directory*

1. Install Centeris Likewise from this disc by choosing "Install Likewise Trial" from the DVD menu.
2. From your Windows Desktop, launch Centeris Likewise.
3. Connect to the Linux VM via the DNS name or IP address set up in the previous section by selecting "File->Add Server" from the Centeris Likewise Console.
4. When asked for "Domain Administrator or root" credentials, use user name "**root**" and password "**likewise**".
5. Click on the "System" tab and the "Computer Name & Domain" subtab.
6. Enter the Computer Name, Windows Domain and a Windows Domain Administrator username and password.
7. Click on "Join Domain".

To report problems or issues with Centeris Likewise, please send us email at [support@centeris.com](mailto:support@centeris.com).

To purchase Centeris Likewise, email [sales@centeris.com](mailto:sales@centeris.com) or visit <http://www.centeris.com>.