

# Slackware as a VMWare Guest

## Introduction

These instructions apply to ESXi 5.5. It's highly likely they also apply to other versions of VMWare, unfortunately you have a lot to choose from taking into account Workstation, Fusion and even Player and I can't test them all. These instructions refer to Slackware 64-bit 14.2 as the guest, and assume Fluxbox WM.

## VM Creation Options

Creating a virtual machine is pretty standard. If you want you can choose VMXNET3 as network interface card because Slackware supports that out of the box, and should give about 15% performance boost in some workloads. Alternatively you can play it safe and just use e1000. Don't choose paravirtualised disk controller which is often 'helpfully' selected by default for Linux: either SATA or LSI Logic SAS should work fine.

## Guest Additions Install

Install of VMWare tools doesn't work without some fiddling. First of all, eject the virtual CD-ROM by (as root) typing:

```
# eject
```

Now you can 'Install VMWare tools' in the ESXi management interface. This will simply 'insert' the CD with the software, because Slackware won't auto-run anything unless you've set that up.

```
# mount /dev/dvd /mnt/dvd
# cd /usr/src
# tar xvf /mnt/dvd/vmware-tools-distrib.tar.gz
```

You may find the file is called something other than vmware-tools-distrib.tar.gz, there should only be one tarball.

Before we do anything else, we have one little patch to apply. Save this to a file called /usr/src/vmware.patch:

```
diff --git a/bin/vmware-config-tools.pl b/bin/vmware-config-tools.pl
index 9f64614..e14cb0d 100755
--- a/bin/vmware-config-tools.pl
+++ b/bin/vmware-config-tools.pl
@@ -4162,7 +4162,7 @@ sub setup32or64Symlinks {

# Install a pam.d vmttoolsd file on all but Solaris.
```

```
if (vmware_product() ne 'tools-for-solaris' && ($open_vm_compat == 0)) {  
-   install_symlink($pamfile, '/etc/pam.d/vmtoolsd');  
+#   install_symlink($pamfile, '/etc/pam.d/vmtoolsd');  
}  
  
if (vmware_product() eq 'tools-for-linux') {
```

Now patch the source:

```
# cd vmware-tools-distrib  
# patch -p1 < ../vmware.patch
```

And finally run the installer:

```
bash-4.3# ./vmware-install.pl  
warning: Generating 12 missing index(es), please wait...  
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]  
  
In which directory do you want to install the common agent library files?  
[/usr/lib]  
  
In which directory do you want to install the common agent transient files?  
[/var/lib]  
  
In which directory do you want to install the documentation files?  
[/usr/share/doc/vmware-tools]  
  
The path "/usr/share/doc/vmware-tools" does not exist currently. This
```

```
program
is going to create it, including needed parent directories. Is this what you
want? [yes]
```

```
The installation of VMware Tools 10.0.9 build-3917699 for Linux completed
successfully. You can decide to remove this software from your system at any
time by invoking the following command: "/usr/bin/vmware-uninstall-
tools.pl".
```

```
Before running VMware Tools for the first time, you need to configure it by
invoking the following command: "/usr/bin/vmware-config-tools.pl". Do you
want
this program to invoke the command for you now? [yes]
```

```
Initializing...
```

```
Making sure services for VMware Tools are stopped.
```

```
Stopping VMware Tools services in the virtual machine:
```

```
Guest operating system daemon:  [ OK ]
VMware User Agent (vmware-user):  [ OK  ]
Unmounting HGFS shares:  [ OK ]
Guest filesystem driver:  [ OK  ]
```

```
sh: : command not found
```

```
The module vmci has already been installed on this system by another
installer
or package and will not be modified by this installer.
```

```
The module vsock has already been installed on this system by another
installer
or package and will not be modified by this installer.
```

```
The module vmxnet3 has already been installed on this system by another
installer or package and will not be modified by this installer.
```

```
The module pvscsi has already been installed on this system by another
installer or package and will not be modified by this installer.
```

```
The module vmmemctl has already been installed on this system by another
installer or package and will not be modified by this installer.
```

```
The VMware Host-Guest Filesystem allows for shared folders between the host
OS
and the guest OS in a Fusion or Workstation virtual environment. Do you
wish
to enable this feature? [no] yes
```

```
The vmxnet driver is no longer supported on kernels 3.3 and greater. Please
upgrade to a newer virtual NIC. (e.g., vmxnet3 or e1000e)
```

The vmblock enables dragging or copying files between host and guest in a Fusion or Workstation virtual environment. Do you wish to enable this feature?

[no] yes

VMware automatic kernel modules enables automatic building and installation of VMware kernel modules at boot that are not already present. This feature can be enabled/disabled by re-running vmware-config-tools.pl.

Would you like to enable VMware automatic kernel modules?

[no]

Disabling timer-based audio scheduling in pulseaudio.

Do you want to enable Guest Authentication (vgauth)? Enabling vgauth is needed

if you want to enable Common Agent (caf). [yes]

Do you want to enable Common Agent (caf)? [yes]

Detected X server version 1.18.3

Distribution provided drivers for Xorg X server are used.

Skipping X configuration because X drivers are not included.

Creating a new initrd boot image for the kernel.  
Nothing found at location /boot/initrd-tree, so we will create an initrd directory structure there... done.

Now cd to /boot/initrd-tree and install some modules in your module directory (lib/modules/4.4.14). Then see init for more information (there are a few other files to edit). Finally, run mkinitrd again once the initrd-tree is ready, and /boot/initrd.gz will be created from it.

Generating the key and certificate files.  
Successfully generated the key and certificate files.

Checking acpi hot plug  [ OK  ]

Starting VMware Tools services in the virtual machine:

Switching to guest configuration:  [ OK  ]

Guest operating system daemon:  [ OK ]

VGAuthService:  [ OK  ]

```
Common Agent: [ OK ]
```

```
The configuration of VMware Tools 10.0.9 build-3917699 for Linux for this running kernel completed successfully.
```

```
You must restart your X session before any mouse or graphics changes take effect.
```

```
You can now run VMware Tools by invoking "/usr/bin/vmware-toolbox-cmd" from the command line.
```

```
To enable advanced X features (e.g., guest resolution fit, drag and drop, and file and text copy/paste), you will need to do one (or more) of the following:
```

1. Manually start /usr/bin/vmware-user
2. Log out and log back into your desktop session; and,
3. Restart your X session.

```
Enjoy,
```

```
--the VMware team
```

```
Found VMware Tools CDR0M mounted at /mnt/dvd. Ejecting device /dev/sr0 ...
```

```
bash-4.3#
```

I've enabled only two options that are by default disabled: Host-Guest Filesystem and vmblock. All other options are as per the default. I've included the complete typescript so you can compare with your own execution.

## Guest Additions Configuration

### Display

By this point, if you are in X, you won't see much effect from VMWare Tools. The first thing to do is run:

```
# vmware-user
```

Your display may flicker somewhat. In fact your display may end up being complete garbage. If it does, try to re-size the display window. It should then correct itself and you'll then find the X screen resizes appropriately as you change it's dimensions. You probably want to add vmware-user somewhere to start on login or when your X session starts.

## Clipboard

At this point, copying between host and guest clipboards has been enabled, however with ESXi you may find it hasn't been configured at the Virtual Machine level. Follow the [VMWare instructions](#) to get it enabled.

## Sources

\* Originally written by [User bifferos](#)

[howtos](#), [vmware](#), [virtualisation](#), [emulation](#)

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