

There exist several methods to install TinyOS.

The easiest is to download and run a XubunTOS Virtual Machine Image in VMware Player.

The instructions are here:

[http://docs.tinyos.net/index.php/Running\\_a\\_XubunTOS\\_Virtual\\_Machine\\_Image\\_in\\_VMware\\_Player](http://docs.tinyos.net/index.php/Running_a_XubunTOS_Virtual_Machine_Image_in_VMware_Player)

Note: your own machine is the host machine, and your VM is your guest machine. The same terminology works for the OSs.

The above page directs you to an obsolete version of VMWare Player.

You should download the most recent version, 3.1.1, at [www.vmware.com](http://www.vmware.com).

You need to set up your Virtual Machine so that it can connect to the Internet correctly -- just treat it like a regular Ubuntu machine.

To be able to easily copy files between your VM and your machine, you need to install VMware Tools.

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## Installing VMware Tools from the Command Line with the Tar Installer

The first steps are performed on the host, within Workstation menus:

1. Power on the virtual machine.
2. After the guest operating system has started, prepare your virtual machine to install VMware Tools.

Choose VM > Install VMware Tools.

The remaining steps take place inside the virtual machine.

3. As root (su -), mount the VMware Tools virtual CD-ROM image, change to a working directory (for example, /tmp), uncompress the installer, then unmount the CD-ROM image.

Note: Some Linux distributions automatically mount CD-ROMs. If your distribution uses automounting, do not use the mount and umount commands below. You still must untar the VMware Tools installer to /tmp.

Some Linux distributions use different device names or organize the

/dev directory differently. If your CD-ROM drive is not /dev/cdrom or if the mount point for a CD-ROM is not /mnt/cdrom, you must modify the following commands to reflect the conventions used by your distribution.

```
mount /dev/cdrom /mnt/cdrom
```

```
cd /tmp
```

Note: If you have a previous installation, delete the previous vmware-distrib directory before installing. The default location of this directory is /tmp/vmware-tools-distrib.

4. Untar the VMware Tools tar file:

```
tar xzpf /mnt/cdrom/VMwareTools-5.0.0-<xxxx>.tar.gz
```

```
umount /dev/cdrom
```

Where <xxxx> is the build/revision number of the VMware Workstation release.

Note: If you attempt to install a tar installation over an rpm installation — or the reverse — the installer detects the previous installation and must convert the installer database format before continuing.

5. Run the VMware Tools tar installer:

```
cd vmware-tools-distrib
```

```
./vmware-install.pl
```

Respond to the configuration questions on the screen. Press Enter to accept the default value.

6. Log off of the root account.

```
exit
```

7. Start X and your graphical environment.

8. In an X terminal, launch the VMware Tools background application.

```
vmware-toolbox &
```

Note: You may run VMware Tools as root or as a normal user. To shrink virtual disks, you must run VMware Tools as root (su -).

To activate the easy drag-and-drop function, run `/usr/bin/vmware-user`, log out of your VM session, log back in, and restart your Terminal.

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