

Install VMWare Server on Ubuntu Desktop "Dapper Drake"

Tested with VMWare Server 1.0 build 28343 and Dapper Drake with updates up to July 15th (kernel 2.6.15-26-386)

Download Ubuntu Desktop 6.0.6

- ▶ Goto <http://www.ubuntu.com/download>
- ▶ Pick a mirror.
- ▶ Select the Desktop CD PC (Intel x86) desktop CD.

Download VMWare Server

- ▶ Goto <http://www.vmware.com/download/server/>
- ▶ Click the **register now** link.
Make sure you choose **Linux** in the "What operating system?" combo.
- ▶ Click the **download now** link at the bottom of the page.
- ▶ Accept the EULA
- ▶ Download both the **VMWare Server for Linux** and the **Management Interface tar.gz** packages (not the RPM version).
- ▶ Burn the packages to CD or make them accessible to the new Ubuntu machine later on. This how-to assumes you burn it to CD.

Installation Ubuntu

NOTE! This howto describes a fresh installation, all data that might exist on the computer will be lost and replaced by Ubuntu.

- ▶ Boot system with Ubuntu CD
- ▶ Choose: **"Start or install Ubuntu"**
- ▶ When Ubuntu is booted click the install icon
- ▶ Choose your language (I picked English)
click **"Forward"**
- ▶ Choose your timezone (I picked Amsterdam)
click **"Forward"**
- ▶ choose your keyboard layout (I picked American English)
click **"Forward"**
- ▶ Create the user using the following options:
"What is your name?" **VMAdmin**
"What name...to login?" **vmadmin**
I choose **vmware-server** to be the hostname. For the remaining of this HOWTO the computername vmware-server is used.
When done click **"Forward"**

- ▶ Choose "**Erase entire disk**"
 - click "**Forward**"
- ▶ Click "**Install**"
- ▶ When installation is finished choose "**Restart now**"
- ▶ The installation CD will be ejected, if the shutdown process hangs on "*Shutting down LVM Volume Groups*" it is save to reset the computer to restart.

Prepare for VMWare installation

- ▶ When the system is rebooted log in using **vmadmin**.
- ▶ I have choosen to use staic IP settings (but this is not mandatory)
 - open network settings (menu **System > Administration > Networking**)
 - TO-DO (but shouldn't be to big a problem to figure this out)
- ▶ Now update Ubuntu with the latest patches using the Update Manager:
 - Menu: **System > Administration > Update Manager**
 - Reboot the system (required for the new kernel).
 - Login using **vmadmin**.
- ▶ Although not needed I installed the SSH daemon for easy remote access
 - open a terminal (menu **Applications > Accessories > Terminal**)
 - *sudo apt-get install openssh-server*
- ▶ For vmware additional packages are required:
 - *sudo apt-get install make gcc linux-headers-`uname -r` xinetd*
 - VMWare requires the libdb2 package. To be able to install this package using apt-get, the sources.list file needs to be edited:
 - *sudo vi /etc/apt/sources.list* , uncomment the 2 lines following the "**Universe**" repository comment.
 - *sudo apt-get update*
 - *sudo apt-get install libdb2*
- ▶ Create a directory for the virtual machines (will be asked about in the setup script):
 - *sudo mkdir /home/vmware_machines*
 - *sudo chown vmadmin:vmadmin /home/vmware_machines*
- ▶ Untar the VMWare software:
 - *cd /cdrom* (or the location you donwloaded the VMWare packages to)
 - *sudo tar -xzf vmware-server-100-28343tar.gz -C /home/vmadmin*
 - *sudo tar -xzf vmware-mui-100-28343tar.gz -C /home/vmadmin*

Installation VMWare Server

- ▶ *cd /home/vmadmin/vmware-server-distrib*
- ▶ *sudo ./vmware-install.pl*
- ▶ Accept **defaults** to all questions.
- ▶ When the setup asks if the configuration script should be run answer yes.
the configuration utility can be run again (in the future) using:
sudo /usr/bin/vmware-config.pl
- ▶ Read the license agreement (use **space** to display next page)
accept using **yes**
- ▶ Use **defaults** for the next questions.
- ▶ VMWare cannot use one of it's precompiled **vmmon modules**, but will let you compile a custom one, do so by answering **yes** to the make question.
- ▶ When asked if you want networking choose the defaults
- ▶ Use **eth0** for networking (if you have multiple network cards, choose the one connected to the LAN)
- ▶ Use **port 902** for remote console connections.
- ▶ Ignore the error about the compilation of "vmware-cmd" perl command
I don't need the command and didn't feel like solving the Perl dependencies
- ▶ For the vmware machine directory use the directory created above
/home/vmware_machines
- ▶ Enter the Serial number and hit enter.
- ▶ VMWare server is now installed.

Installation VMWare Management Interface

- ▶ *cd /home/vmadmin/vmware-mui-distrib*
- ▶ *sudo ./vmware-install.pl*
- ▶ Read the license agreement (use **enter** to display next page)
accept using **yes**
- ▶ Accept **defaults** to all questions.
- ▶ When the setup asks if the configuration script should be run answer **yes**.
The configuration utility can be run again (in the future) using:
sudo /usr/bin/vmware-config-mui.pl
- ▶ Accept **defaults**.
- ▶ Patch the VMWare HTTP server startup script (if not done the MUI will not start after system reboot):
 - *sudo vi /etc/init.d/httpd.vmware*
 - type: **/Starting [enter] [arrow up] type a [enter]**
 - add the following two lines (after **start**) before **vmware_exec**):
mkdir -p /var/run/vmware/httpd
chown www-data:nogroup /var/run/vmware/httpd
 - type: **[esc] :wq [enter]**

Connect to VMWare Console from Windows client

- ▶ Open a browser (FireFox and Internet Explorer work) to <http://vmware-server:8222>
- ▶ Select **VMWare Server Console for Windows** in the gray box below the login box.
- ▶ Click **download**.
- ▶ Either directly open the file or download it to a location and then double click it
- ▶ Follow the setup instructions.
- ▶ Open the console just installed:
Start > All Programs > VMWare > VMWare Server Console
- ▶ Enter the host name (or ip address) of the ubuntu machine, in the example this is **vmware-server**.
- ▶ Login as **vmadmin**.
- ▶ Create a new virtual machine using:
File > New > Virtual Machine...
- ▶ This should be pretty self explaining, for more info use the VMWare manual:
http://www.vmware.com/pdf/server_vm_manual.pdf
- ▶ Once a virtual machine is created login on the website as **vmadmin** to monitor the health of your vmware server.

For more information

Contact me:

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Search the VMWare forums:

<http://www.vmware.com/community/forum.jspa?forumID=219>

Server Administration Guide:

http://www.vmware.com/pdf/server_admin_manual.pdf