



vmware®

1

Click on Create New Virtual Machine



Create a New Virtual Machine



Connect to a Remote Server

View and manage virtual machines on a remote server.



Virtualize a Physical Machine

Convert your PC to a virtual machine.



Open a Virtual Machine



Software Updates

Check for software updates to VMware Workstation.

CCNA HUB



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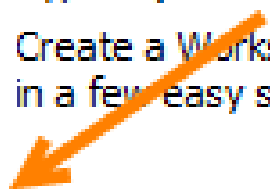


vmware
Workstation

Welcome to the New Virtual Machine Wizard

What type of configuration do you want?

- Typical (recommended)
Create a Workstation 10.0 virtual machine in a few easy steps.
- Custom (advanced)
Create a virtual machine with advanced options, such as a SCSI controller type, virtual disk type and compatibility with older VMware products.



CCNA HUB

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Choose the Virtual Machine Hardware Compatibility

3 Which hardware features are needed for this virtual machine?

Virtual machine hardware compatibility

Hardware compatibility: Workstation 10.0

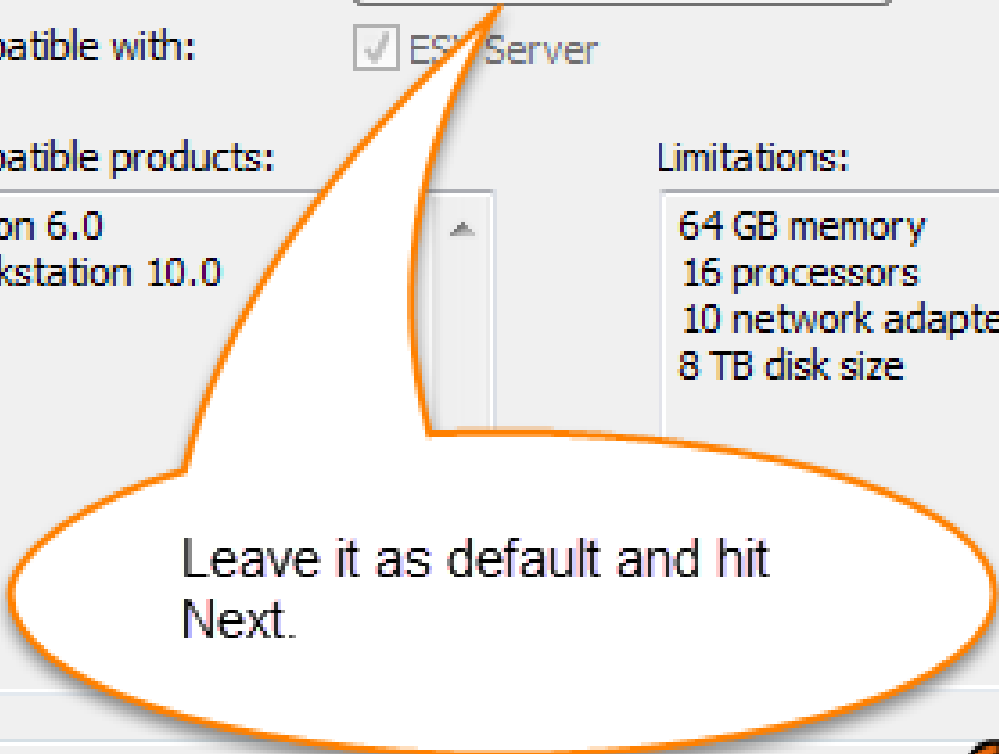
Compatible with: ESX Server

Compatible products:

Fusion 6.0
Workstation 10.0

Limitations:

64 GB memory
16 processors
10 network adapters
8 TB disk size



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Guest Operating System Installation

- 4** A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?

Install from:

Installer disc:

 DVD RW Drive (E:)

Since I going to create Linux Servers from this template, I prefer to have more control over what should be installed in my server. If you pick the 2nd option, VMware station will try to Auto install the server without giving you the full control of what should be installed..

Installer disc image file (iso):

D:\Office 2010 Plus\Office_2010_Plus_64bit.iso

Browse...

I will install the operating system later.

The virtual machine will be created with a blank hard disk.

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Select a Guest Operating System

5 Which operating system will be installed on this virtual machine?

Guest operating system

- Microsoft Windows
- Linux
- Novell NetWare
- Solaris
- VMware ESX
- Other

Pick from the following list based in your favorite distribution. My articles will support the following:

- Ubuntu 64-bit
- Debian 64-bit
- CentOS 64-bit
- OpenSuse 64-bit

Version

Ubuntu 64-bit



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Name the Virtual Machine

6 What name would you like to use for this virtual machine?

Virtual machine name:

Ubuntu 12.04 64-bit Template

Location:

D:\VMs\Linux-Templates\Ubuntu 12.04 64-bit

Browse...

The default location can be changed at Edit > Preferences.

Since I am creating VM Templates, I always organize my locations by creating sub-directories based on the Linux distribution name and version.

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Processor Configuration

7 Specify the number of processors for this virtual machine.

Processors

Number of processors:

1

Number of cores per processor:

1

Total processor cores:

1

Pick 1 CPU and 1 core for any template you prepare. You can change the CPU numbers and RAM as you like from the Production or the Testing created VMs.

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Memory for the Virtual Machine

8 How much memory would you like to use for this virtual machine?

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: MB

64 GB -
32 GB -
16 GB -
8 GB -
4 GB -
2 GB -
1 GB -
512 MB -
256 MB -
128 MB -
64 MB -
32 MB -
16 MB -
8 MB -
4 MB -

Maximum recommended memory:
12108 MB

Recommended memory:
1024 MB

Guest OS recommended minimum:
512 MB

Leave it as default and click Next.



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Network Type

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What type of network do you want to allow the VMs to connect to?

I am going to Test my VMs from outside. I prefer to use Bridge over NAT option.

Network connection

Use bridged networking

Give the guest operating system direct access to an external Ethernet network. The guest must have its own IP address on the external network.

Use network address translation (NAT)

Give the guest operating system access to the host computer's dial-up or external Ethernet network connection using the host's IP address.

Use host-only networking

Connect the guest operating system to a virtual network on the host computer.

Do not use a network connection

However, feel free to use NAT if the Bridge won't work for your OS during the setup. You can always change it later.

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Select I/O Controller Types

10 Which SCSI controller type would you like to use?

I/O controller types

- SCSI Controller:
- BusLogic (Not available for 64-bit guests)
 - LSI Logic (Recommended)
 - LSI Logic SAS

Leave the default as LSI Logic and hit Next.

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Select a Disk Type

11 What kind of disk do you want to create?

Virtual disk type

- IDE
- SCSI (Recommended)
- SATA

Leave the default as SCSI and hit Next.

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Select a Disk**12** Which disk do you want to use?

Disk

 Create a new virtual disk

A virtual disk is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.

 Use an existing virtual disk

Choose this option to reuse a previously configured disk.

 Use a physical disk (for advanced users)

Choose this option to give the virtual machine direct access to a local hard disk.

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Specify Disk Capacity

13 How large do you want this disk to be?

Maximum disk size (GB):

Recommended size for Ubuntu 64-bit: 20 GB

Allocate all disk space now.

Allocating the full capacity can enhance performance. If you allocate all of the physical disk space to be available right now, the virtual disk starts small and grows as you add capacity.

Store virtual disk as a single file

Split virtual disk into multiple files

Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

At one point you might need to reclaim free space at each VM, therefore, I don't not recommend to have the main drive greater than 30 Gig. You can add extra drives later on at the Production or Testing VMs.

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Specify Disk File

14 Where would you like to store the disk file?

Disk File

One 30 GB disk file will be created using the file name provided here.

Browse...

Leave it as default and hit Next.



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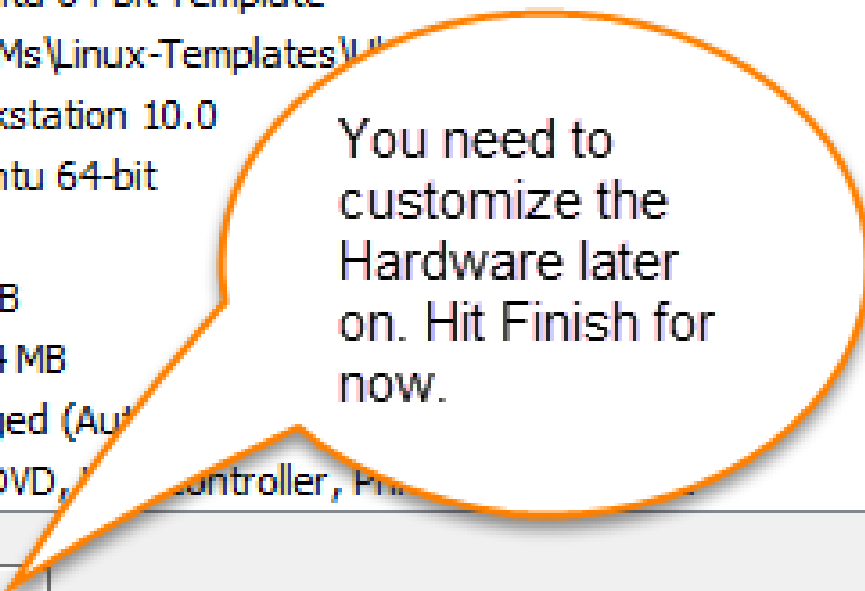


Ready to Create Virtual Machine

15 Click Finish to create the virtual machine. Then you can install Ubuntu 64-bit.

The virtual machine will be created with the following settings:

Name:	Ubuntu 64-bit Template
Location:	D:\VMs\Linux-Templates\W...
Version:	Workstation 10.0
Operating System:	Ubuntu 64-bit
Hard Disk:	30 GB
Memory:	1024 MB
Network Adapter:	Bridged (Aut...
Other Devices:	CD/DVD, ... Controller, P...



Customize Hardware...



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Finish

Cancel



Ubuntu 64-bit Template

▶ Power on this virtual machine

🔧 Edit virtual machine settings

16

▼ Devices

📊 Memory	1 GB
📦 Processors	1
💾 Hard Disk (SCSI)	30 GB
📀 CD/DVD (SATA)	Auto detect
🌐 Network Adapter	Bridged (Aut
🔌 USB Controller	Present
🔊 Sound Card	Auto detect
🖨️ Printer	Present
🖥️ Display	Auto detect

Hit Edit Virtual Machine Settings to Finalize some settings which will make this VM as Template.



Hardware Options

Device	17	Summary
Memory		1 GB
Processors		1
Hard Disk (SCSI)		30 GB
CD/DVD (SATA)		Auto detect
Network Adapter		Bridged (Automatic)
USB Controller		Present
Sound Card		Auto detect
Printer		Present
Display		Auto detect

Connections

USB compatibility: USB 2.0

- Automatically connect new USB devices
- Show all USB input devices
- Share Bluetooth devices with the virtual machine

Since I am going to prepare a Server Template, I don't need USB, Sound, neither Printing.

Select the USB Controller and Hit the Remove Button Below. Do the same thing to Sound Card and Printer Device.

Add...

Remove

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OK

Cancel

Help



Hardware Options

Device	Summary
Memory	1 GB
Processors	1
Hard Disk (SCSI)	30 GB
CD/DVD (SATA)	Auto detect
Network Adapter	Bridged (Automatic)
Display	Auto detect

Device status

- Connected
 Connect at power on

Connection

Use physical drive:

Auto detect

Use ISO image file:

D:\ISO Files\ubuntu-12.04.3-se

Browse...

Advanced...

Once you remove the USB, Sound, and Printer virtual devices, select CD/DVD (SATA) Device. And on the right, Browse for your Favorite Linux distribution ISO file. It happens that I have started with Ubuntu 64-bit, so I have to browse to select Ubuntu 64-bit ISO file. I am going to setup Ubuntu 12.04 VM template right now and Ubuntu 14.04 template would be next. Besides, Debain 6 and 7 each needs a template. CentOS 6.5 and 7, OpenSuse 12 and 13 and so on.

Once you have selected the ISO file you that is compatible with your VM hardware, hit the "Options" Tab above.

Add...

Remove

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OK

Cancel

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Settings	19	Summary
General		Ubuntu 64-bit Template
Power		
Shared Folders		Disabled
Snapshots		
AutoProtect		Disabled
Guest Isolation		
Access Control		Not encrypted
VMware Tools		Time sync off
VNC Connections		Disabled
Unity		
Appliance View		
Autologin		Not supported
Advanced		Default/Default

Process priorities

Input grabbed: Default

Input ungrabbed: Default

The default settings are specified in Edit > Preferences > Priority.

Settings

Gather debugging information: Default

 Disable memory page trimming Log virtual machine progress periodically Enable Template mode (to be used for cloning)

File locations

Configuration: D:\VMs\Linux-Templates\Ubuntu 64-bit\Ubuntu 64-

Log: (Not powered on)

Under the options tab, select Advanced (The last Option). Once you select the Advanced option, on the right side, click the check box where it says "Enable Template Mode (to be used for cloning) Meaning, this VM will have later on a snapshot used by Production or Testing VMs. Hit OK button to apply your changes and close the VM settings.

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OK

Cancel

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Ubuntu 64-bit Template

▶ Power on the virtual machine

🔑 Edit virtual machine settings

20

▼ Devices

📊 Memory	1 G
📦 Processors	1
💾 Hard Disk (SCSI)	30
📀 CD/DVD (SATA)	Use
🌐 Network Adapter	Brid
🖥 Display	Auto

▼ Description

Type here to enter a description of this virtual machine.

At this point, this would be the last step before Powering Up and go into setting up the OS. Next, follow Setting up OS Articles to continue. Thanks for following the VM template creation instructions.