VMWare virtual machine creation tutorial

Create a Virtual machine through VMWare Player using a virtual disk downloaded from osboxes.org (Ubuntu 16.04, 64 bits)

Create the Virtual Machine

1. Launch Virtual Machine creation procedure

Open VMWare Player and start procedure



Create a virgin virtual machine

With VMWare Player we cannot create a virtual machine with an external virtual disk (ie the one just downloaded from osboxes.org). We must create the virtual machine and add the osboxes virtual disk in a second step.

So fisrt creating a virtual machine with a virgin virtual disk. This disk will be deleted later once the virtual disk of osboxes added to the virtual machine.

New Virtual Machine Wiz	ird	katatio	×
Welcome to the New A virtual machine is system. How will y	Virtual Machine W like a physical compu- pu install the guest op	/izard iter; it needs an o perating system?	perating
Install from:			
⊘ Installer <u>d</u> isc:			
🔮 DVD RW Drive (I):)	-	
© Installer disc i <u>m</u> age fi	e (iso):		Browse
I will install the opera The virtual machine	ting system later. vill be created with a	blank hard disk.	
Help	< <u>B</u> ack	<u>N</u> ext >	Cancel

Set Virtual machine os type

Select a Guest Operating	System	
which operating system	will be installed on this virtual machine?	
Guest operating system		
Microsoft Windows		
Linux		
Novell NetWare		
Solaris		
Other		
Version		
Ubuntu 64-bit		•
		-

Select Virtual machine destination location

New Virtual Machine Wizard	×
Name the Virtual Machine What name would you like to use for this virtual machine?	
<u>V</u> irtual machine name:	
Ubuntu\$4-bit	
Location:	
C: \Data\Virtual Machines\Ubuntu64-bit	Browse
< <u>B</u> ack Next >	Cancel

Set virtual disk type

This settings doesn't matter since this default virtual disk will be deleted.

Only the virtual machine the osboxes virtual disk will be keep.

New Virtual Machine Wizard
Specify Disk Capacity How large do you want this disk to be?
The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.
Maximum disk <u>s</u> ize (GB): 20.0
Recommended size for Ubuntu 64-bit: 20 GB
 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.
Help < Back

Customize hardware of the virtual machine

Name:	Ubuntu64-bit	
Location:	C:\Data\Virtual Machines\Ubuntu64-bit	
Version:	Workstation 12.0	
Operating System:	Ubuntu 64-bit	Ξ
Hard Disk:	20 GB, Split	
Memory:	1024 MB	
Network Adapter:	NAT	
Other Devices	CD/DVD, USB Controller, Printer, Sound Card	-

Set RAM of the virtual machine

4GB or more is a good settings however keep in mind you need to left RAM for Windows (1GB or 2GB for windows should be enough)

More RAM are allocated for Virtual Machine faster Ubuntu and compilation will run.

Please set at least 2GB especially if you need to do compilation inside your virtual machine.

lardware		
Device	Summary 1 GB 1 Auto detect NAT Present Auto detect Present Auto detect	Memory 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: 4096 MB 64 GB 64 GB 64 GB 64 GB 64 GB 64 GB 128 MB 128 MB 128 MB 128 MB 16 MB 8 MB 14 MB 4 MB 4 MB 64 MB 65 12 MB 65 12 MB 66 MB 66 MB 66 MB 66 MB 66 MB 66 MB 67 M
	Add <u>R</u> emove	The virtual machine will use up to 768 MB of this memory for graphics memory. You can change this amount in the Display settings page.
		Close Help

Set number of cores of the virtual machine

Please set has many core the host CPU has.

More cores are set faster compilation will run.

Hardware		Set 2 cores for CPU
		(or more if your CPU allow it)
Device	Summary	Processors
Memory	4 GB	Number of processor <u>c</u> ores 2
Processors	2	
New CD/DVD (Auto detect	
Network Adapter	NAT	Preferred mode: Automatic
Sound Card	Auto detect	Disable acceleration for binary translation
Printer	Present	Virtualize Intel VT-x/EPT or AMD-V/RVI
Display	Auto detect	virtualize CPU performance counters
	Add <u>R</u> emove	
		Close Help

Verify and finish the virtual machine creation

Name:	Ubuntu64-bit	
Location:	C: \Data \Virtual Machines \Ubuntu64-bit	
Version:	Workstation 12.0	
Operating System:	Ubuntu 64-bit	=
Hard Disk:	20 GB, Split	
Memory:	4096 MB	
Network Adapter:	NAT	
Other Devices:	2 CPU cores, CD/DVD, USB Controller, Printer, Sound	-

Adding the virtual disk of osboxes.org

Copy the virtual disk of osboxes

Copy the virtual disk just downloaded from <u>osboxes.org</u> to the location of the just created virtual machine (see Location field in the previous screenshot)

Edit the virtual machine



Add the osboxes virtual disk

Click on add hardwre button

Virtual Machine Settings	5	×
Hardware Options		
Device Memory Processors Hard Disk (SCSI) CD/DVD (SATA) Network Adapter USB Controller Sound Card Printer Display	Summary 4 GB 2 20 GB Auto detect NAT Present Auto detect Present Auto detect	Disk file Ubuntu64-bit.vmdk Capacity Current size: 2.6 MB System free: 80.4 GB Maximum size: 20 GB Disk information Disk space is not preallocated for this hard disk. Hard disk contents are stored in multiple files. Disk utilities Map this virtual machine disk to a local Volume. Defragment files and consolidate free Space. Expand disk capacity. Expand Compact disk to reclaim unused space. $Adyanced$
	Add <u>R</u> emove	
		OK Cancel Help

Select Hard disk

Add Hardware Wizard	×
Hardware Type What type of hardware do you wa	nt to install?
Hardware types:	Explanation
CO/DVD Onive	Add a flard disk.
Floppy Drive	
USB Controller Ø Sound Card	
D Parallel Port	
Printer	
Generic SCSI Device	
<	Back Next > Cancel

Select hard disk type

Add Hardware Wizard	x
Select a Disk Type What kind of disk do you want to create?	
Virtual disk type	
© IDE	
SCSI (Recommended)	
© S <u>A</u> TA	
< <u>B</u> ack <u>N</u> ext > Ca	ancel

Add the osboxes virtual hard disk

Add Hardwar	e Wizard
Select a Whic	Disk h disk do you want to use?
Disk Create a A virtual will appe can easi Use an e Choose Use a pr Choose disk.	new <u>v</u> irtual disk disk is composed of one or more files on the host file system, which ar as a single hard disk to the guest operating system. Virtual disks by be conied or moved on the same host or between hosts. <u>xisting virtual disk</u> this option to reuse a previously configured disk ysical disk (for advanced evers) this option to give the virtual machine direct access to a local hard
	< <u>B</u> ack <u>N</u> ext > Cancel
	- Winned
Select a Whic	e Wizard Existing Disk h previously configured disk would you like to use?
Select a Whic Disk file One disk file each file be provided be File name: Select	e Wizard A Existing Disk A previously configured disk would you like to use? e will be created for each 2 GB of virtual disk capacity. File names for yond the first will be outcomotically generated using the file name re as a basis. J16.04_29032017\64bit\Ubuntu 16.04 (64bit).vmdk Browse the just downloaded image from osboxes.org

Remove default virtual disk

Since the virtual disk of osboxes have been added to the virtual machine, we do need anymore the virtual disk added at virtual machine creation.

Finish

Cancel

< <u>B</u>ack

Virtual Machine Settings		
Hardware Options		
Device Summary Im Memory 1 GB Processors 2 Used Did (CCCC) 20 CB	Disk file Ubuntu 64-bit (2).vmdk	
Image: New Hard Disk (SCS) 20 GD Image: New Hard Disk (SCS) Auto detect Image: CD/DVD (SATA) Auto detect Image: Network Adapter NAT Image: USB Controller Present Image: Sound Card Auto detect Image: Printer Present Image: Display Auto detect	Current size: 2.6 MB System free: 81.6 GB Maximum size: 20 GB Disk information Disk space is not preallocated for this hard disk. Hard disk contents are stored in a single file. Disk utilities Map this virtual machine disk to a local volume. Defragment files and consolidate free space. Expand disk capacity. Expand disk to reclaim unused space. Qompact	
Add <u>R</u> emove		
OK Cancel Help		

set osboxes vitual disk as master

By adding the virtual disk of osboxes in a second step then the virtual disk has been set as slave. The master disk is the default disk created at virtual machine creation.

Since the default disk have been deleted (just before), the virtual machine doesn't have anymore master disk.

So the osboxes disk should be set as master.

Virtual Machine Settings		
Hardware Options		
Device Memory	Summary 1 GB 2	Disk file rs\frq09494\Desktop\VM_Test\Ubuntu 16.04 (64bit).vmdk
New Hard Disk CD/DVD (SATA) Acto detect Network Adapter NAT USB Controller Present Sound Card Auto detect Printer Present Display Auto detect	Sapacity Current size: 4.0 GB System free: 81.6 GB Maximum size: 100 GB Disk information Disk space is not preallocated for this hard disk. Hard disk contents are stored in a single file. Disk utilities Map this virtual machine disk to a local volume. Defragment files and consolidate free space. Expand disk capacity. Expand Compact disk to reclaim unused space.	
	Add Remove	OK Cancel Help

