

Qemu Manager – User Manual – 13th April 2009
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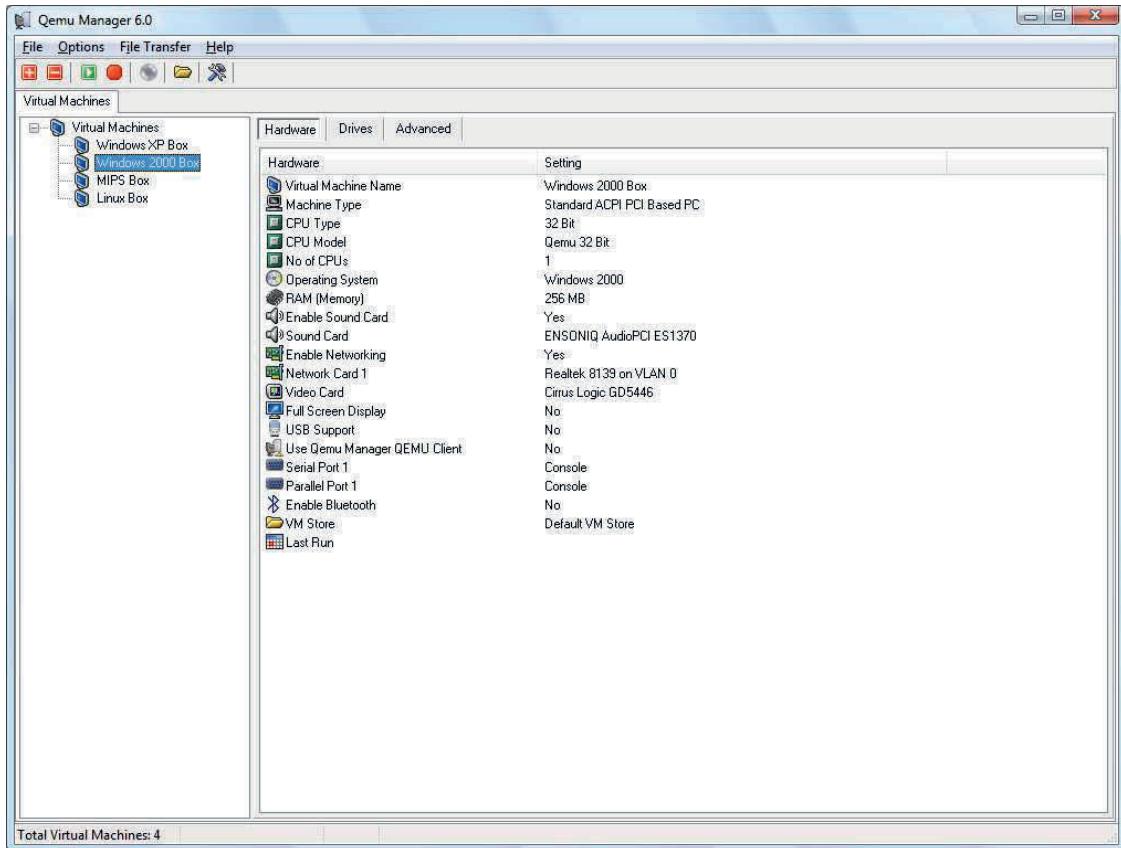
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This documentation has been generated for reference ONLY, I cannot be held responsible for any incorrect data contained within it. All remarks and comments and based completely on my own opinions and again may be incorrect.

Chapter 1 – Introduction

Welcome to the QEMU Manager, this program has been designed to assist new and existing users to operate the QEMU Processor Emulator (<http://fabrice.bellard.free.fr/qemu>).

When you first run the Qemu Manager program you will be prompted with the main screen:



The screen is separated into 4 parts:

Main Menu

Here you can access configuration options, exit the program and get help on the program.

Main Toolbar


Here you can control the program using shortcut buttons these consist of:





- Create new virtual machine. This button allows you to create a new virtual machine that can be launched with Qemu. (See Chapter 2)





- Delete a virtual machine. This button allows you to delete a created virtual machine.

 - Run a virtual Machine. This button will allow you to launch a virtual machine. Simply click on the virtual machine you wish to run from the list below the toolbar.

 - Terminate a virtual machine. This button will show a list of running virtual machines. You can select a virtual machine to terminate should it become unstable or cannot be terminated the correct way. (You should only use this function as a last resort as it may result in some data loss).

 - Import Media – This button allows you to import media to use with Qemu, I.E. CD-ROM Disks & Floppy Disks. The Wizard will assist in creating image files to use with Qemu. (See Chapter 4)

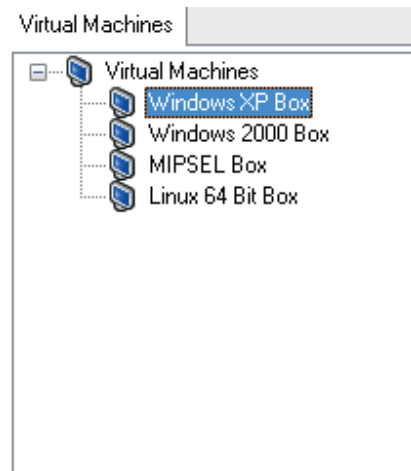
 - Manage VM Stores. VM Stores are folders on your hard disk which contain the Virtual Machine configuration files & disk images. Qemu Manager knows where to find these by looking within the VM Stores. You can create/edit/delete VM Stores using this button.

 - Add/Remove Hardware. There are specific types of hardware that can be added/removed from your virtual machine - These are:


- Network Cards
- Serial Ports
- Parallel Ports

You can add and remove these by clicking this button or by right clicking within the "Hardware" list view.

Virtual Machine List



The virtual machine list, located on the left hand side of the Qemu Manager lists all your created virtual machines. Beside each virtual machine is a blue or green icon.

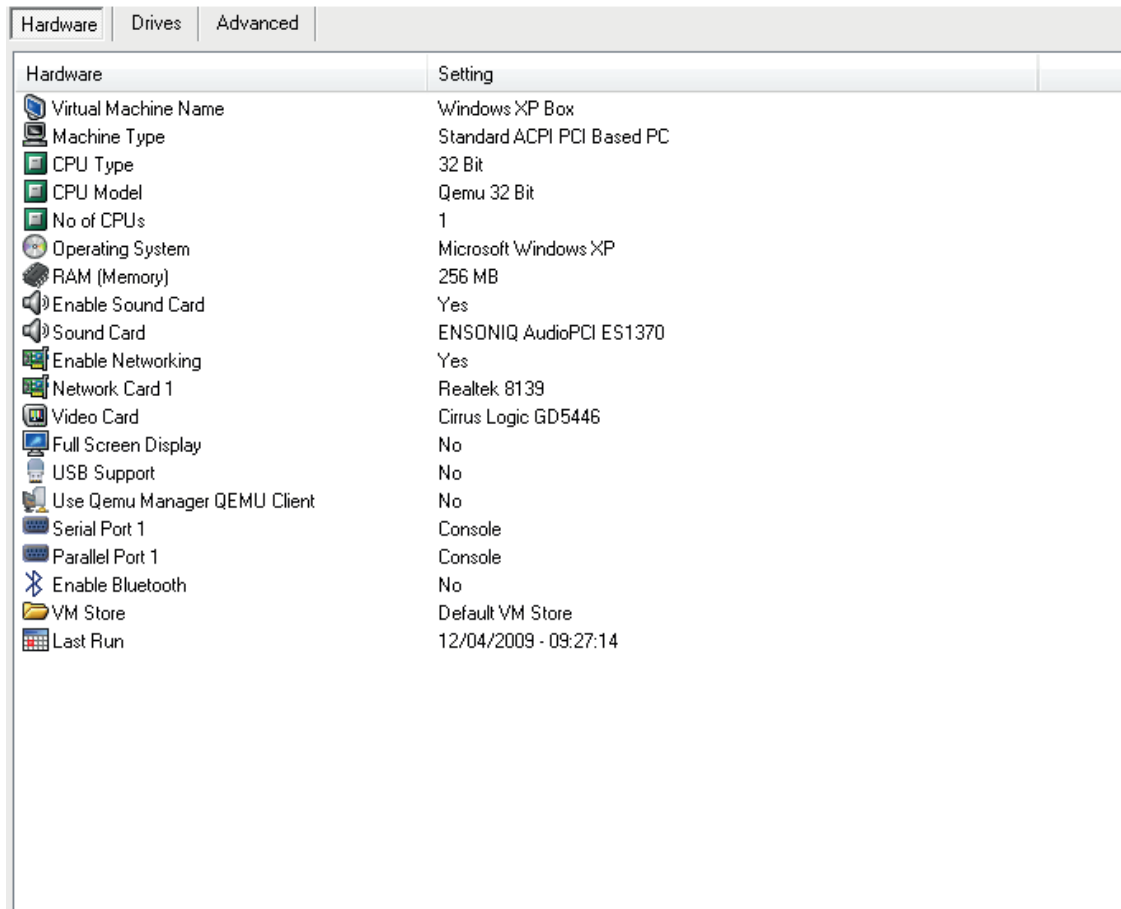
 - Indicates the virtual machine is not running.

 - Indicates a virtual machine is running.

To Manage a virtual machine simply click once on the virtual machine's name.

Main Configuration Window

To modify an option simply Double Click on the option.



The screenshot shows a window titled 'Main Configuration Window' with three tabs: 'Hardware', 'Drives', and 'Advanced'. The 'Hardware' tab is selected, displaying a list of hardware settings in a table format. Each row includes an icon, the hardware name, and its current setting.

Hardware	Setting
Virtual Machine Name	Windows XP Box
Machine Type	Standard ACPI PCI Based PC
CPU Type	32 Bit
CPU Model	Qemu 32 Bit
No of CPUs	1
Operating System	Microsoft Windows XP
RAM (Memory)	256 MB
Enable Sound Card	Yes
Sound Card	ENSONIQ AudioPCI ES1370
Enable Networking	Yes
Network Card 1	Realtek 8139
Video Card	Cirrus Logic GD5446
Full Screen Display	No
USB Support	No
Use Qemu Manager QEMU Client	No
Serial Port 1	Console
Parallel Port 1	Console
Enable Bluetooth	No
VM Store	Default VM Store
Last Run	12/04/2009 - 09:27:14

The main configuration window consists of 3 tabs:

Hardware – All hardware related items for your virtual machine.

Drives – All hard disk items, removable media & snapshots related to your virtual machine.

Advanced – Advanced configuration options for your virtual machine.

Chapter 2 – New Virtual Machine Wizard

You can create a new virtual machine quickly with Qemu Manager using the new virtual machine wizard. You can run this by clicking the relevant toolbar button.



New Virtual Machine Wizard

Welcome to the new virtual machine wizard. This wizard will help you create a new virtual machine. First please specify a virtual machine name and the type of virtual machine you wish to create.

General

Please enter a name for your virtual machine

My Virtual Machine

Please specify where you wish to store your virtual machine configuration and disk images:

Default VM Store

Please select the platform for the virtual machine:

Standard x86/x64 PC

Operating System

Microsoft Windows XP

< Back Next > Cancel

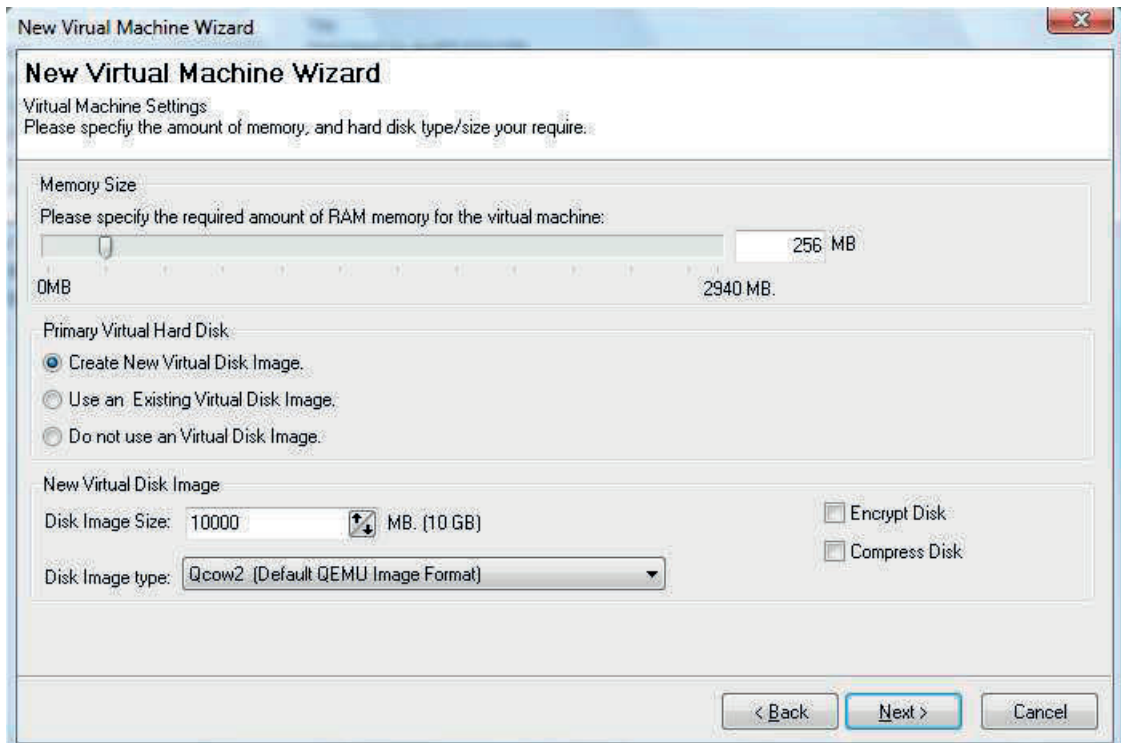
First specify a name for your virtual machine. Currently all virtual machine names need to be unique.

Next specify the "VM Store" you wish to store the virtual machine configuration files and disk images to. (See Chapter 3 for explanation). At this point you can also create a new VM store.

Next specify what platform you want the virtual machine to behave as. The default is "Standard x86/x64 PC" when emulates a standard PC, as you may be aware QEMU emulates lots of different types of Machines/CPUS and you can fine tune this from the hardware tab after the machine has been created (See Chapter 3 for explanation)

Finally If required select an operating system the machine will run or enter some manual text, this is optional.

When done click the "Next" button.

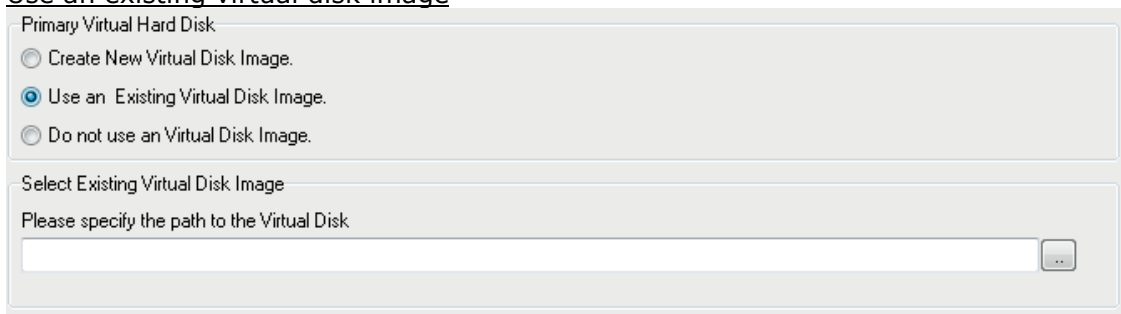


Next specify the amount of RAM (Memory) your virtual machine requires you can use the slider and/or enter the value in the input box.

Next specify the Virtual machines primary hard disk – the options are:

Create new virtual disk – Allows you to create a new virtual hard disk, at this point you need to also specify the Size of the disk in Megabytes and the type of disk image you require. You can also specify whether you want to compress and/or encrypt the disk.

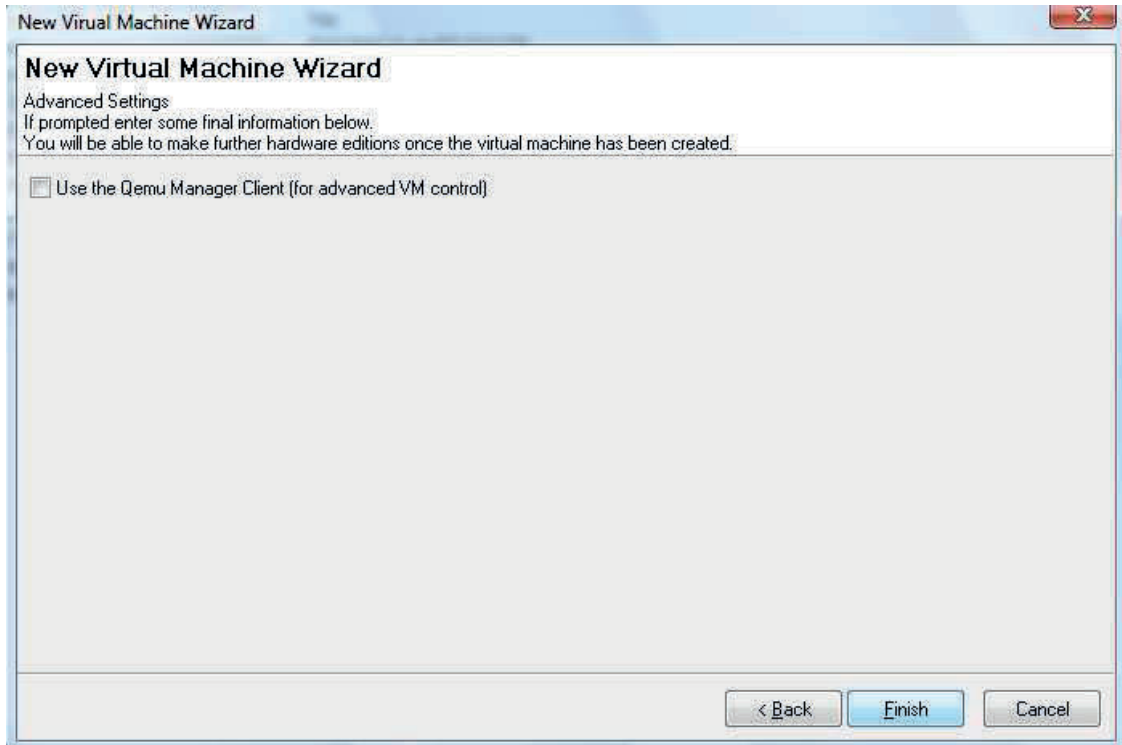
Use an existing virtual disk image



You can then click the “..” browse button to locate the disk image you wish to use.

Do not use an Virtual Disk Image – No disk image will be allocated to the virtual machine.

When finished click the “Next” Button.



Finally select any advanced options you may like, Options will be dependant on the platform you have selected.

When finished click the “Finish” button.

That’s it! Your virtual machine will be created.

Chapter 3 – Hardware Tab

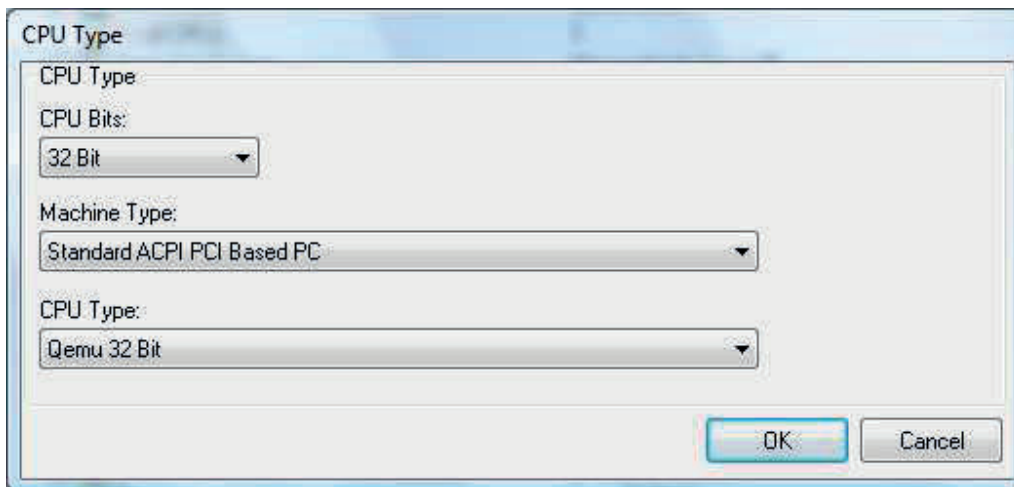
Below is an explanation of all the functions within the Hardware Tab.

Virtual Machine Name - The name of your Virtual Machine.

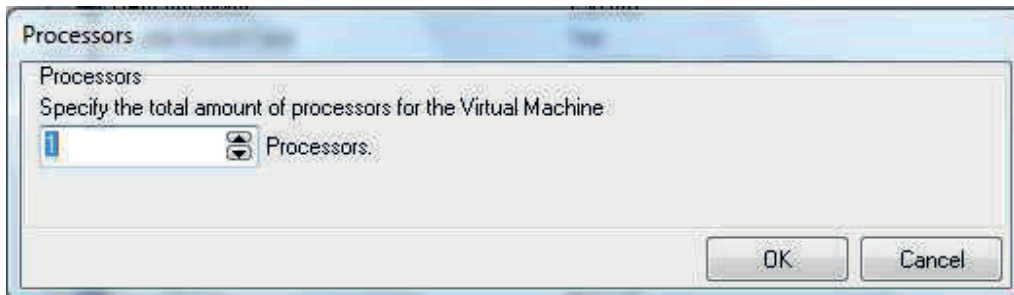
Machine Type - Indicates the type of virtual machine. Qemu supports a large array of machine types from PC based to MIPS based architectures.

CPU Type - Indicates whether the Virtual CPU is 32 bit or 64 bit.

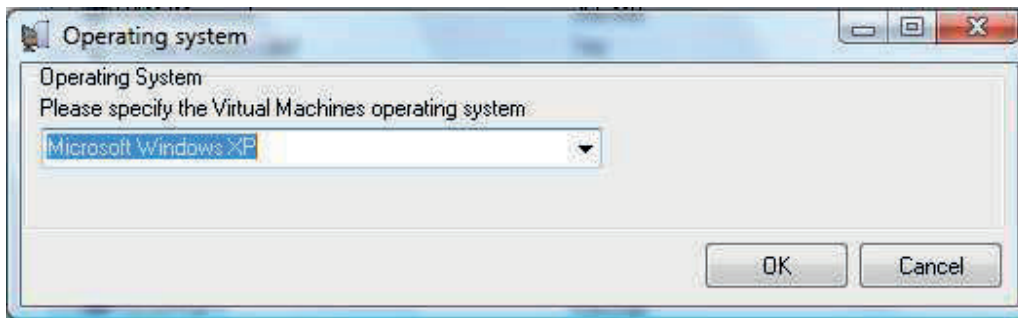
CPU Model - The type of CPU that the Virtual machine uses.



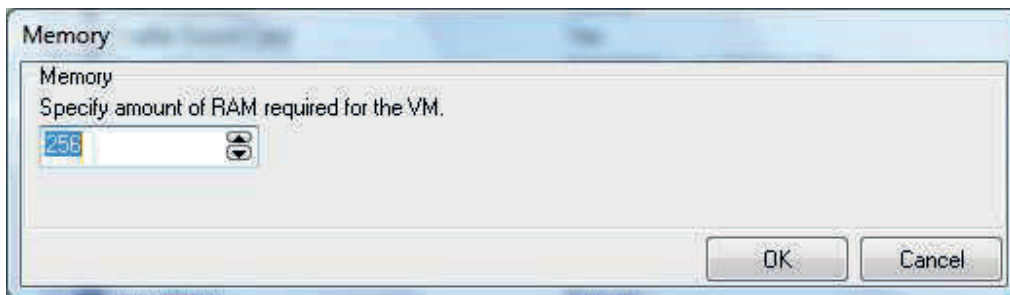
No of CPUs - The number of CPU'S the virtual machine will use.



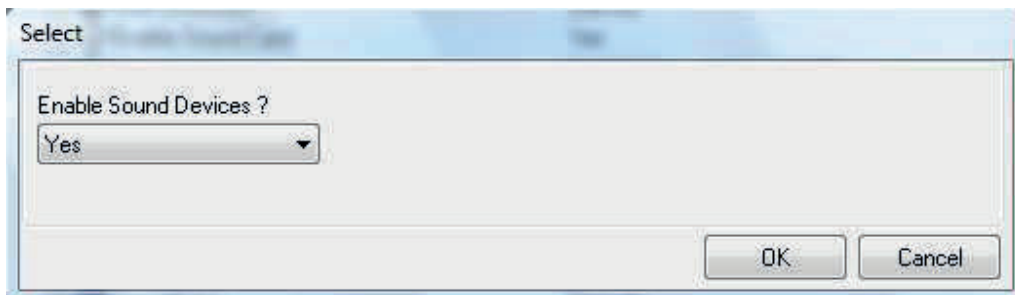
Operating System – The primary operating system the Virtual Machine is running on.



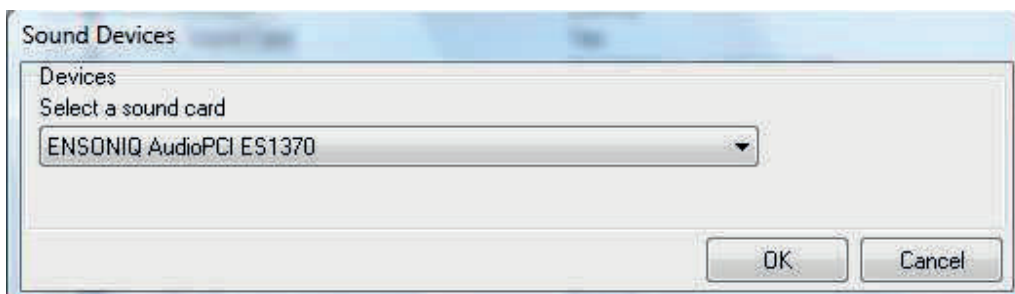
Ram (Memory) – The amount of RAM the virtual machine will use.



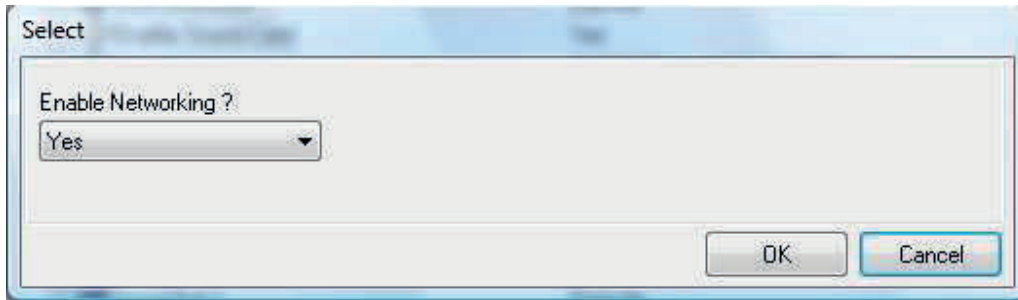
Enable Sound Card – Indicates whether you wish to enable a virtual Sound card in your Virtual Machine.



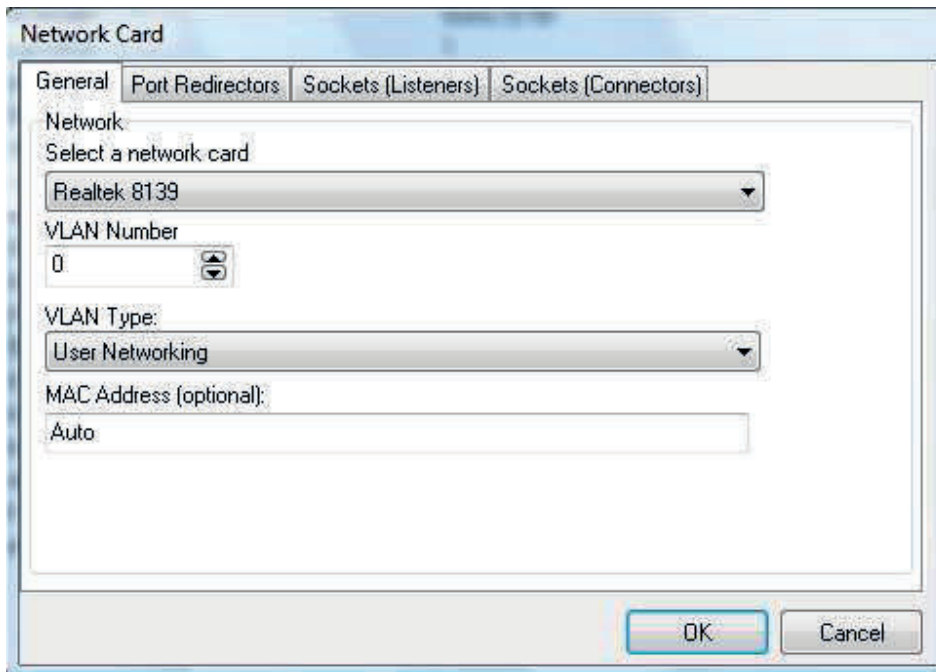
Sound Card – Qemu emulates many different sound cards, dependant of the hardware platform you have chosen, this option indicates which sound card the virtual machine is currently using.



Enable Networking – Indicates whether you wish to enable a virtual network card in your Virtual Machine.



Network Card x



Qemu emulates many different network cards, dependant of the hardware platform you have chosen, this option indicates which network card the virtual machine is currently using. You can add multiple network cards to a virtual machine each time you add a card it will be shown as "Network Card x" x being the number of the card added.

There are a few options when configuring a network card – these are as follows:

Network Card – The model of network card you wish to use within your Virtual machine. There will be different models listed depending on the platform you are using.

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