# Qemu Manager – User Manual
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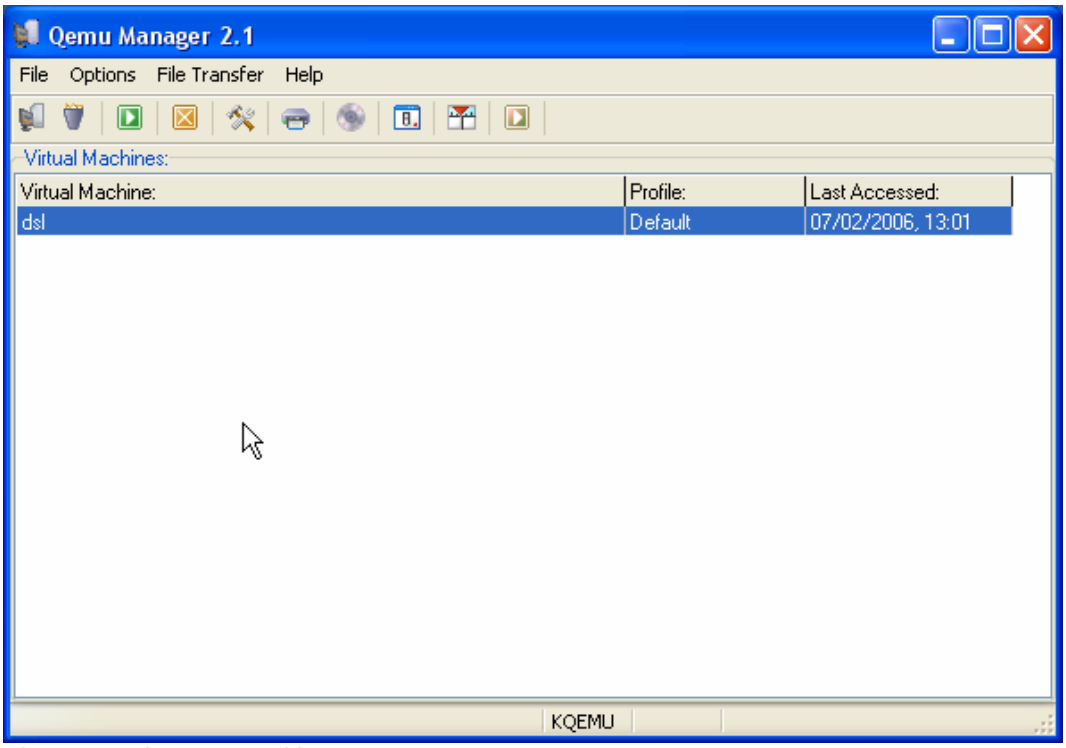
## Chapter 1 – Introduction / Basic Usage

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:

1) Main Menu – Here you can access configuration options, exit the program and get help on the program.

2) Main Toolbar – Here you can control the program using shortcut buttons these consist of:

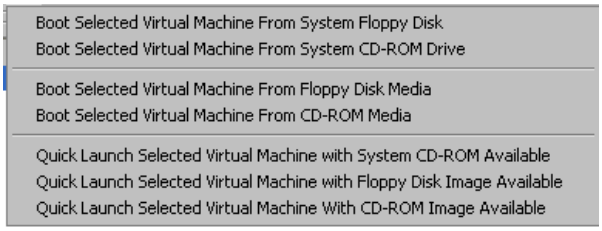
 - Create new virtual machine. This button allows you to creat a new virtual machine that can be launched with Qemu. (*See Chapter 2)*

 - Delete a virtual machine. This button allows you to delete a created virtual machine (Note: any virtual hard disks created will NOT be deleted).

 - 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 is some data loss).

 - Launch Virtual Machine with Quick Media – This button will temporarily allow you to launch a virtual machine with a selected media, this is quicker than changing the virtual machine configuration every time.




Once clicked the following menu will appear. To launch a virtual machine simply select an option from the menu.

Boot Selected Virtual Machine From System Floppy Disk – This option will allow you to insert a physical floppy disk into your host pc, and boot up from it with Qemu, this will override any media settings in your VM Configuration.

Boot Selected Virtual Machine From System CD-ROM Drive - This option will allow you to insert a physical cd-rom into your host pc, and boot up from it with Qemu, this will override any media settings in your VM Configuration.

Boot Selected Virtual Machine From Floppy Disk Media – This option will allow you to specify a floppy disk image that you wish to boot from, this will override any media settings in your VM configuration.

Boot Selected Virtual Machine From CD-ROM Media – This option will allow you to specify a cd-rom disk image that you wish to boot from, this will override any media settings in your VM configuration.

Quick Launch Selected Virtual Machine with System CD-ROM Available - This option will allow you to insert a physical CD-ROM into your host pc, when the VM is launched the floppy disk will be available to the Guest OS.

Quick Launch Selected Virtual Machine with Floppy Disk Image Available – This option will allow you to launch a VM with a floppy disk image available for use with the Guest OS. This will override any media settings in your VM Configuration.

Quick Launch Selected Virtual Machine with CD-ROM Image Available - This option will allow you to launch a VM with a CD-ROM image available for use with the Guest OS. This will override any media settings in your VM Configuration.

 - Configure Virtual Machine – This button will allow you to configure the currently selected virtual machine. (*See Chapter 3)*

 - 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)*

 - Dock to tray. This button will dock Qemu Manager to the system tray.

 - Configure Profiles – This button will allow you to view and/or configure profiles to be used with Qemu Manager. Profiles allow you to use multiple versions of Qemu and configurations instead of been restricted to just one release of Qemu. *(See Chapter 7)*

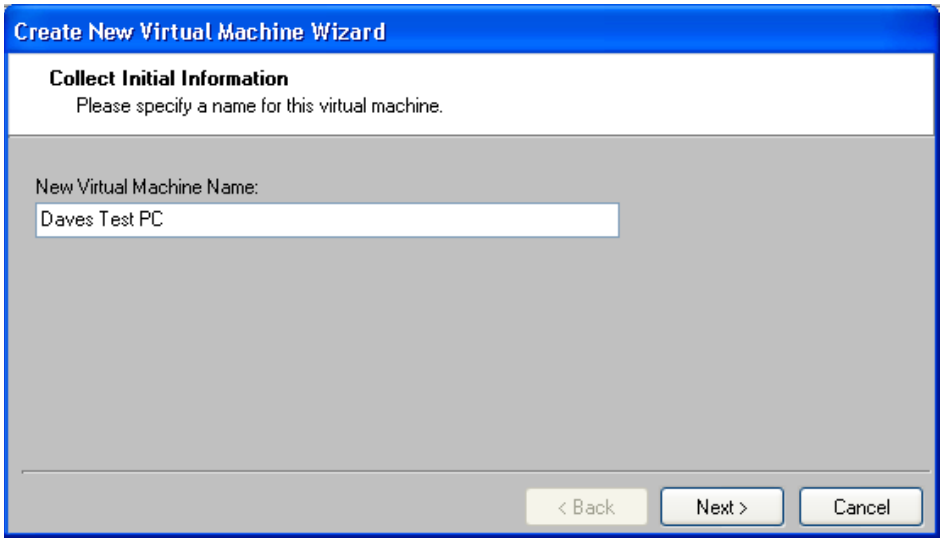
 - Launch virtual machine in exclusive mode (version 0.2 onwards) – This button allows you to launch a selected virtual machine in exclusive mode, this means you can only run ONE Qemu session. This option provides you with a second toolbar to control the virtual machine session, i.e. change media, stop/start etc.. *(See Chapter 6)*

3) Main virtual machine list – The centre part of the program window provides a list of all the virtual machines you have created along with it's creation date and when it was last accessed.

4) Status Bar – Shows exclusive mode details & Accelerator information.

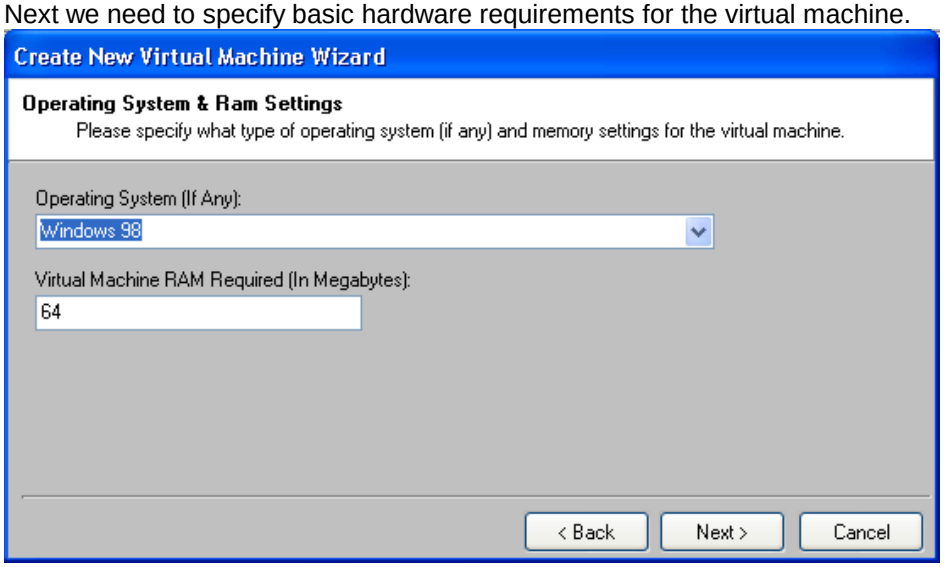
## Chapter 2 – Creating A Virtual Machine

After clicking the create virtual machine button from the main program toolbar a wizard will appear:

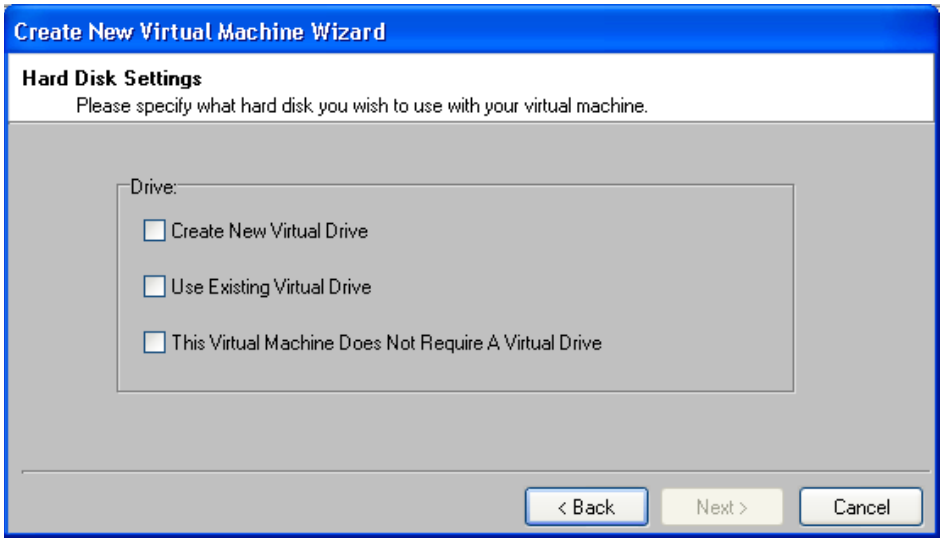



First specify a name for your virtual machine, when finished click the Next button.

Next we need to specify basic hardware requirements for the virtual machine.

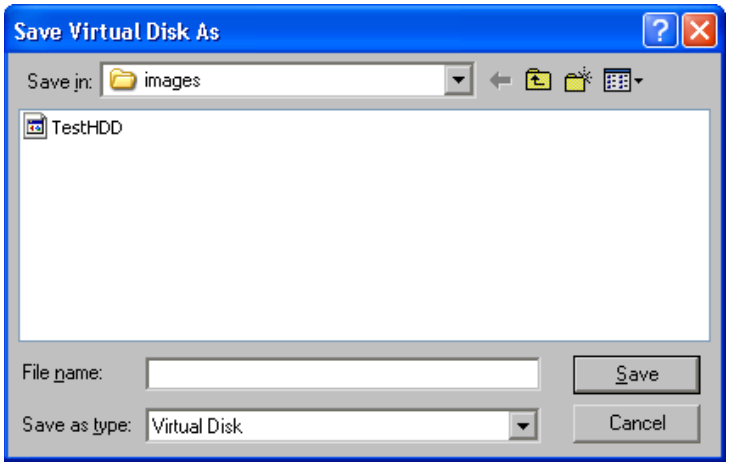



You can select from preset operating system details or enter your own operating system description. If you select a preset operating system, the program will automatically specify ram settings for you, otherwise enter the amount of RAM you wish your virtual machine to have. When finished click next.

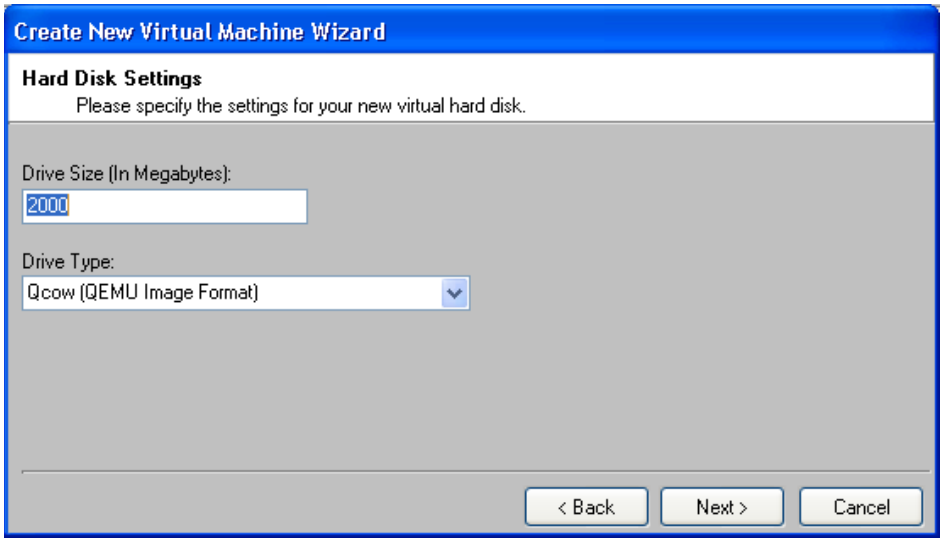



Next we need to specify if we wish to use an existing virtual disk, create a new one or not use a virtual disk with the machine. If you specify an existing disk you will be prompted to select it's filename and location.

If you are creating a new virtual disk, click the "Create New Virtual Drive" checkbox and click next.



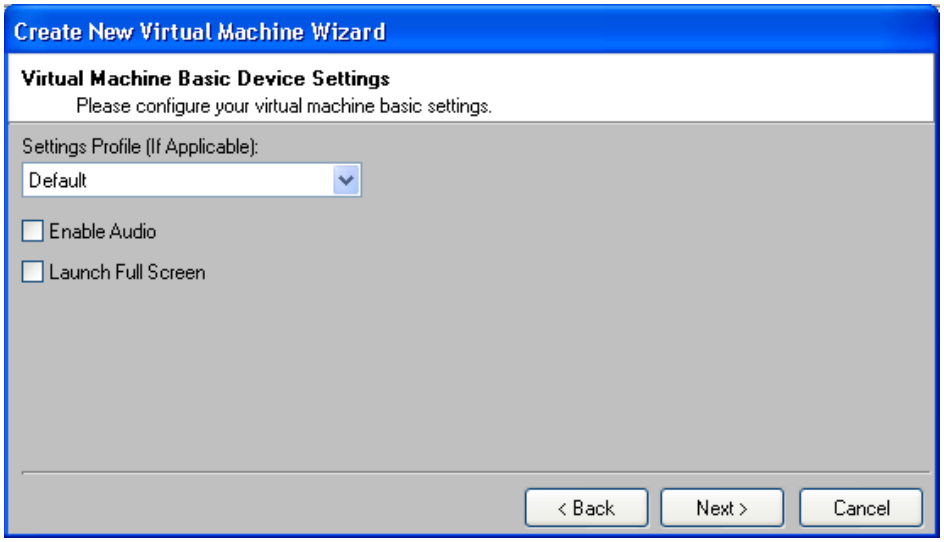

You will then be prompted to enter a name for your virtual disk, when done click Save.




You then need to specify the size and format for the disk. Enter the total amount in (Megabytes) for the size of the disk.

Next you need to specify the drive type, for new users or everyday use accept the default (Qcow), this will create a file that will grow in size as your virtual disk is used. If you prefer to use a flat file created to the size of your virtual disk select (Raw).

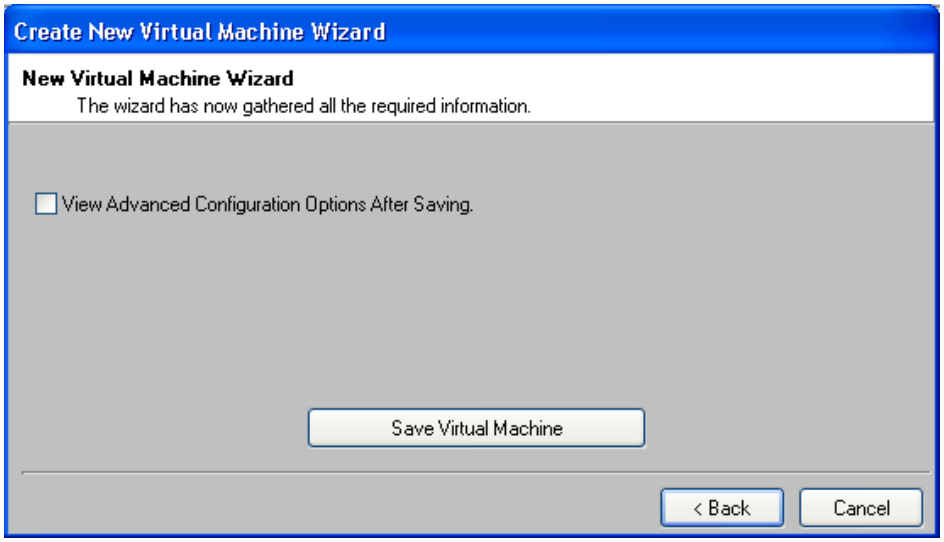
When finished click next.




Next you can specify simple settings, i.e. if you wish audio to be enabled on your virtual machine or if you wish it to be ran in full screen mode.

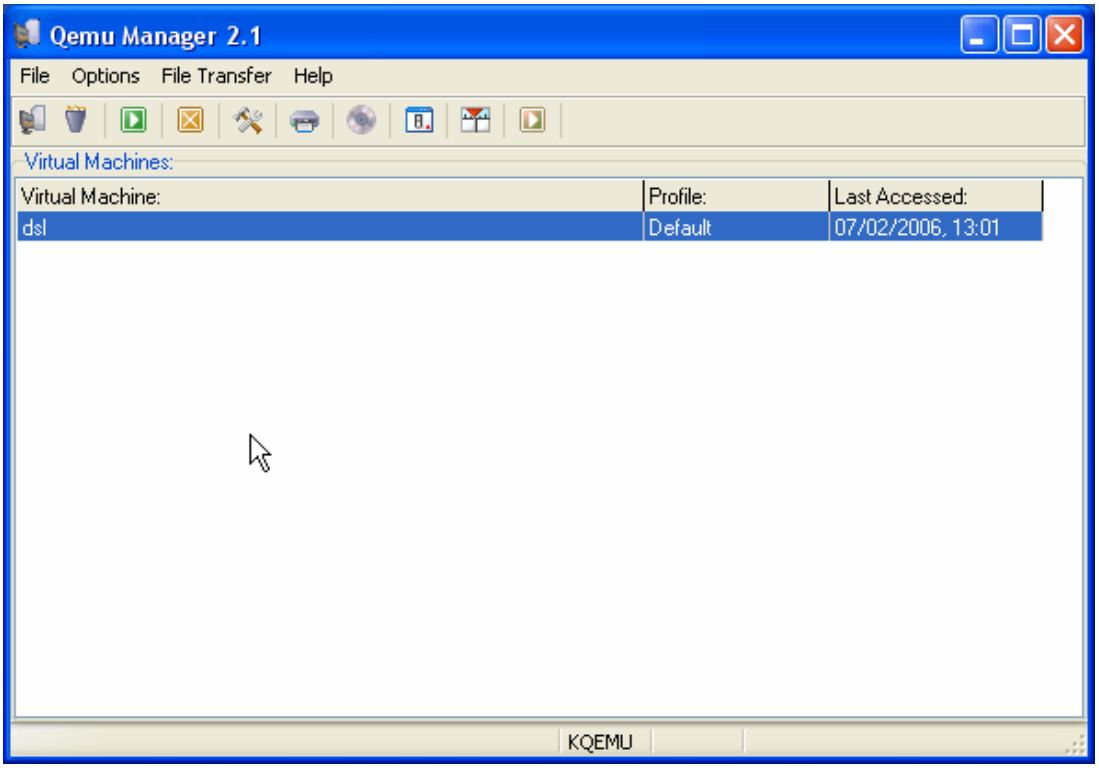
You will also be prompted to select the system profile you wish to allocated to the virtual machine *(See Chapter 7)*

When finished click next.




Well Done!, you have created the virtual machine, to save it click the “Save Virtual Machine Button”, if you wish to show the full configuration of the machine after saving check the “View Advanced Configuration Options After Saving” check box.

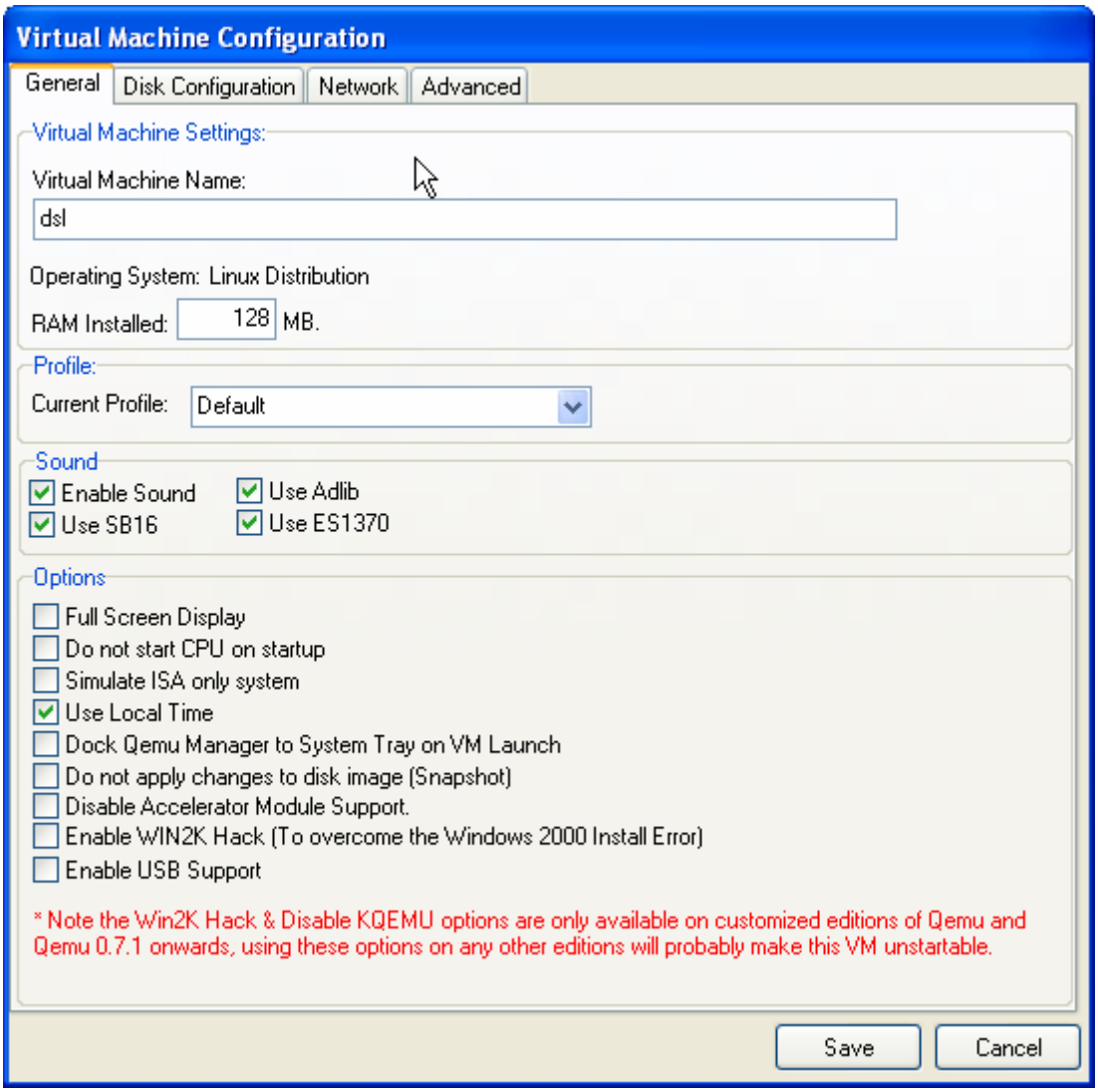
(Note: The “View Advanced Configuration Options After Saving” option is automatically ticked if you specified that you do not wish to create/use a virtual disk, This allows you to add removable media to your virtual machine so that Qemu will launch).




Your new virtual machine will be shown on the main screen.

# Chapter 3. Virtual Machine Configuration

After clicking the “configure selected virtual machine” button from the main program toolbar a configuration screen will appear:




At the top of the window you will see a series of tabs these tabs will take you to specific configuration sections.

These consist of:

**General** – General virtual machine settings (i.e. the basics to run the virtual machine).

**Disk Configuration** – Allows you to configure, virtual hard disks, cd-rom drives/images, floppy disk drives / images.

**Network** – Allows you to configure virtual networking for the virtual machine.

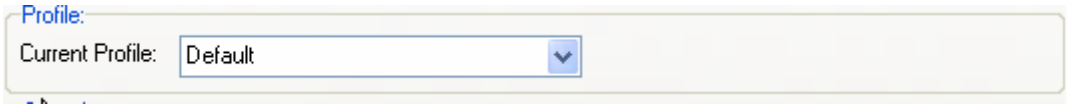
**Advanced** – Advanced virtual machine options.

## General Tab

Below is an illustrated summary of the the general tab features.


Virtual Machine Settings:

- Virtual Machine Name – The name of virtual machine you specified during the New VM wizard this can be changed here.
- Operating System - The name of the operating system the vm will run (entered during the New VM Wizard).
- Ram Installed - Ram used for the virtual machine, you can also change this here.

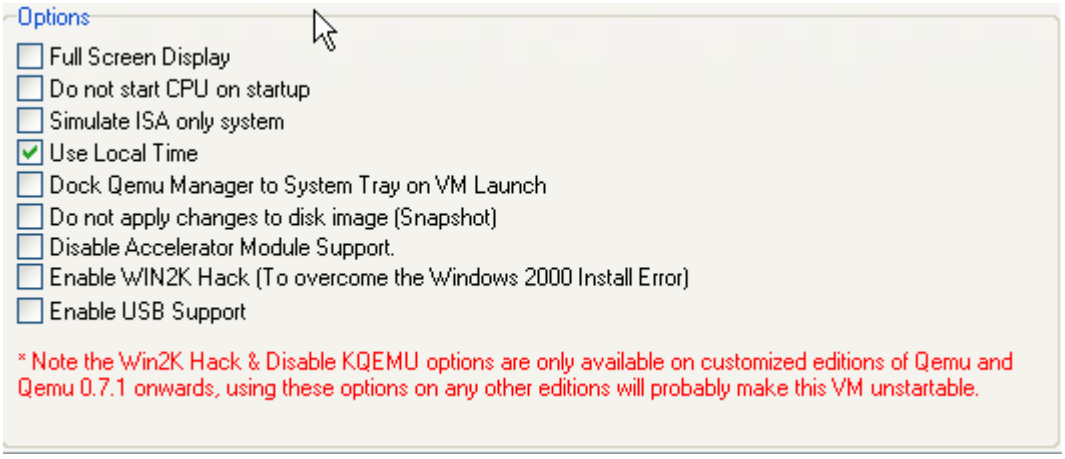



Profile:
The name of the profile allocated to the virtual machine. *(See Chapter 7)*

Sound:


Sound Enabled – If checked guest machine sound will be emulated to the host pc
As from Qemu 0.8.0 you can also specify a sound card type(s), you can select these from here.

Options:



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Full Screen Display – If checked the guest machine will be launched full screen.

Do not start CPU at start up - The guest will be in a halted start when launched.

Simulate ISA only system – The guest will be based on an ISA architecture instead of the default PCI architecture.

Use Local Time – Set the real time clock to local time.

Dock Qemu Manager to System Tray on VM Launch – When a VM is launched the Qemu Manager program will be docked to the system tray.

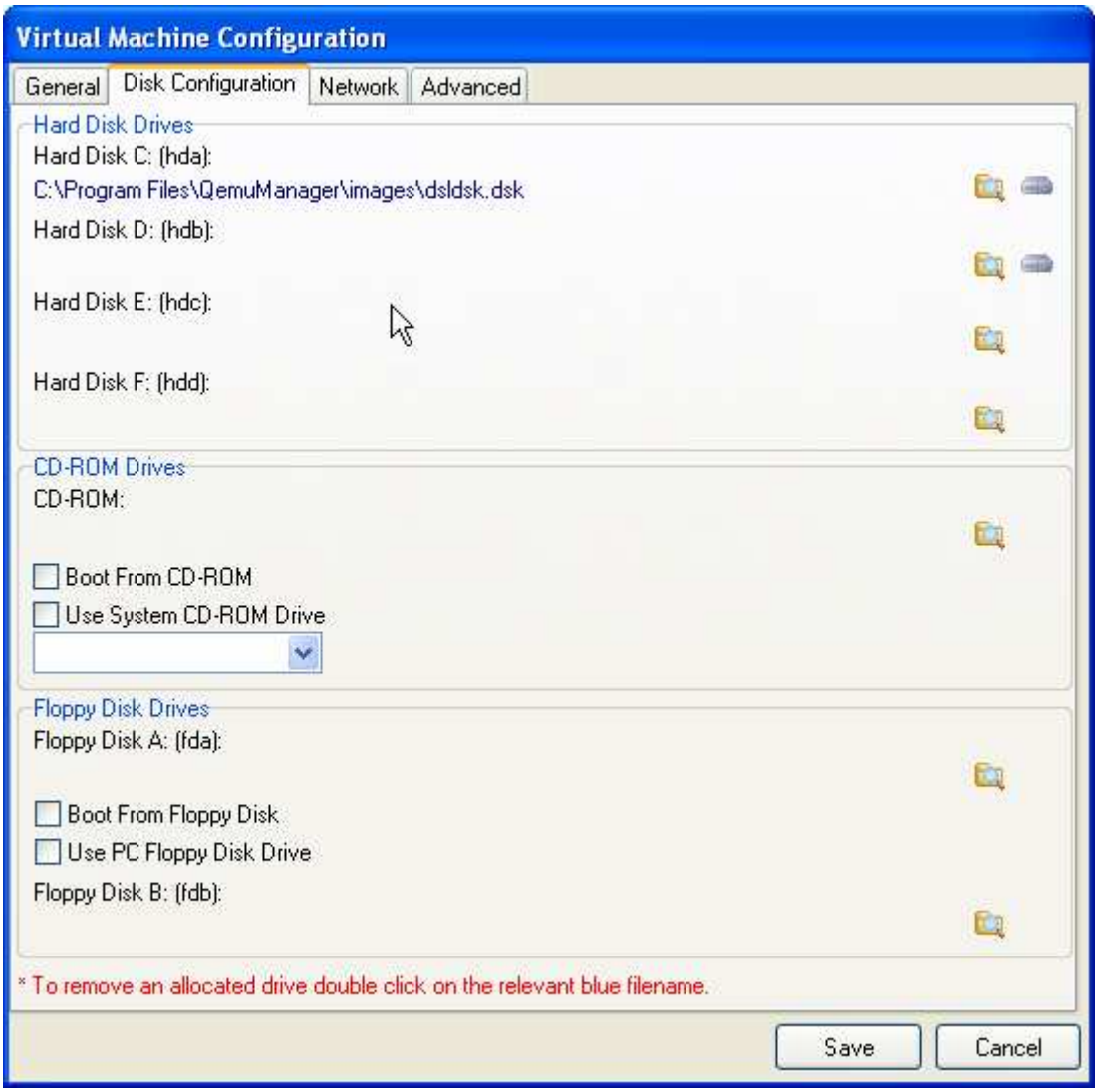
Do not apply changes to disk image (snapshot) – This will stop any changes been saved to the hard disk image during a guest session, this is only applicable if you are launching a VM using a Saved State Image (See Advanced).

Disable Accelerator Module Support – If this option is ticked any accelerator module support (i.e. KQEMU or QVM86) will be disabled (this function works the same as –no-kqemu)

Enable WIN2K Hack – If this option is ticked Qemu will be launched with the Windows 2000 Installation workaround, Once you have Installed Windows 2000 you MUST remove this option.

Enable USB Support – If this option is ticked Qemu with be launched with USB support enabled, you can specify USB devices under the Advanced Tab.

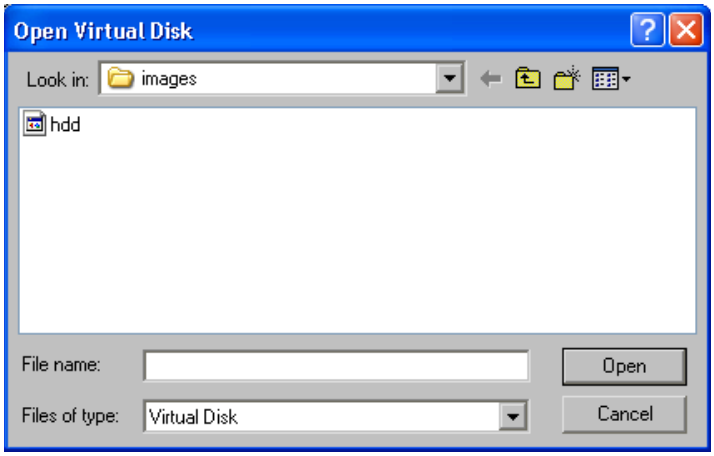
**Disk Configuration**




From the disk configuration page, you can allocate hard disk, floppy disk, and cdrom images to the guest machine.

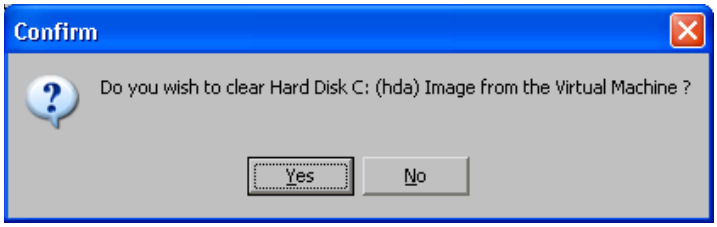
Hard Disk Drives

To allocate a hard disk image file click the  button next to the hard disk you wish to allocate to.




You will then be prompted to select the image you wish to allocate.

To remove an image from a hard disk (i.e. make it unavailable for use with the guest machine) double click on the blue image name.

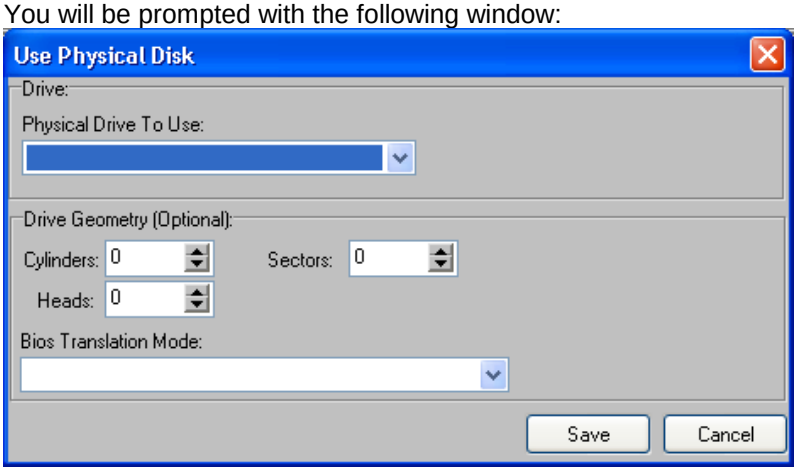

You will then be prompted to confirm removal.

NOTE:  This does not remove the disk image from your computer!!!!

Using Physical Disks

To allocate a physical hard disk to a virtual machine click the  button next to the hard disk you wish to allocate to.

You will be prompted with the following window:

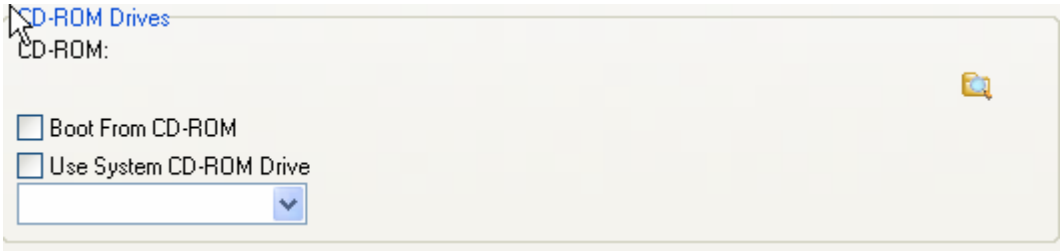



First select the physical disk you wish to use from the selection box.

You can then manually specify if required the disk geometry for the drive. If this is not required leave these blank. When done click the Save button. When the VM is launched Qemu Manager will attempt to use the physical disk with the VM.

**(NOTE: With Qemu Manager you can only allocate ONE Physical disk to a VM, this can be either HDA or HDB but not BOTH!)**

CD-ROM Drives



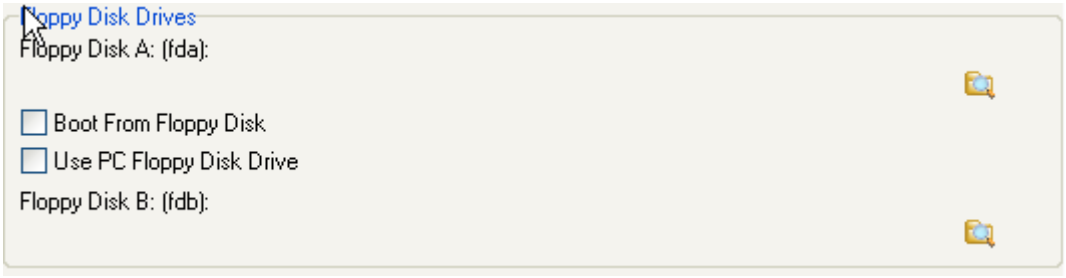

There are 2 ways to allocate CD-ROM media to a guest machine.

Via image file – this can be done exactly the same as allocating hard disk images.

System CD-ROM Drive – You can allocate your physical cd-rom drive in the host pc to be the guest machines cd-rom drive. To do this check the “Use system CD-ROM Drive” check box and select the drive letter from the pull-down selection box.

If you wish the cd-rom drive to be “Bootable” at start up check the “Boot From CD-ROM” check box.

Floppy Disk Drives




There are 2 ways to allocate Floppy Disk media to a guest machine.

Via image file – this can be done exactly the same as allocating hard disk images.

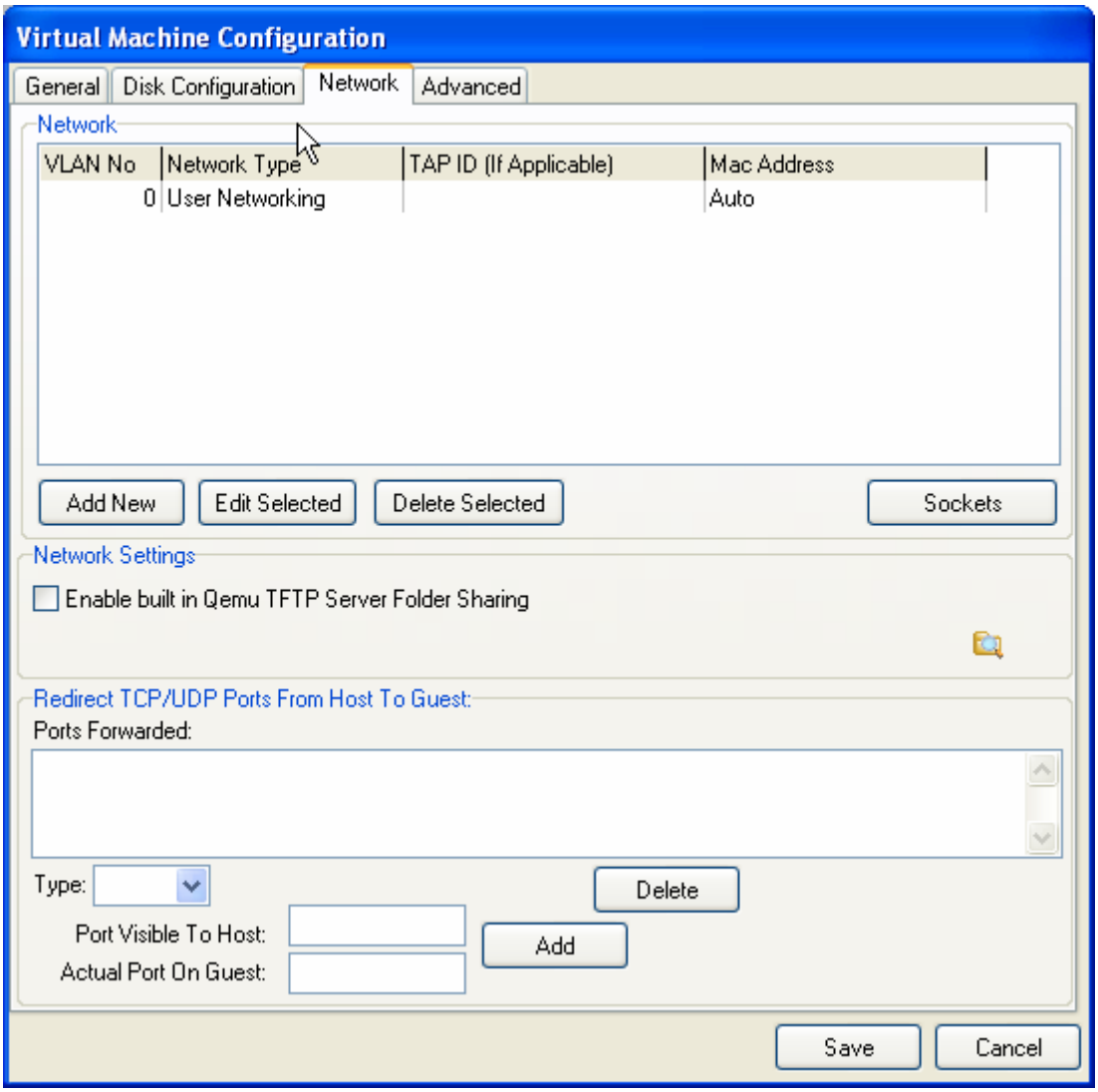
Use PC Floppy Disk Drive – You can allocate your physical floppy disk drive in the host pc to be the guest machines floppy disk drive. To do this check the "Use PC Floppy Disk Drive" check box and select the drive letter from the pull-down selection box.

If you wish the floppy disk drive to be "Bootable" at start up check the "Boot From Floppy Disk"

General Notes

- You cannot make a floppy disk and a cd-rom bootable at the same time, you can only specify one or the other.
- By double clicking on ANY blue link on the "Disk Configuration" page will allow you to remove the selected allocated image file/media from the virtual machine.

**Network**



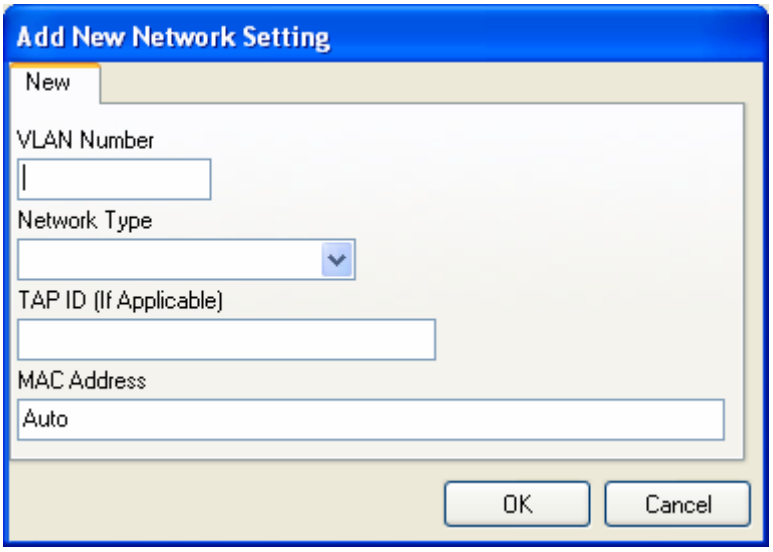

Network Type

There are 2 networking types:

User Network Stack - This is the default, and will emulate a standard network card(s), retrieving all it's data from the Host machine.

Enable TAP Network Support – This option will allow you to use TAP networking, via the OpenVPN TAP-Win32 driver. This provides full realtime networking support with Qemu.

To add a network setting, click the "Add New" button.




First specify which VLAN the card will be using or 0 for the default.
Next specify which type of networking you wish to use i.e. User networking/TAP Networking.
If you are using TAP networking enter the TAP adaptor ID in the “TAP ID” box.

Finally if you wish to specify a manual MAC address for the virtual network card enter it in the “MAC Address” box otherwise keep “Auto” specified.

When done click the “OK” Button.

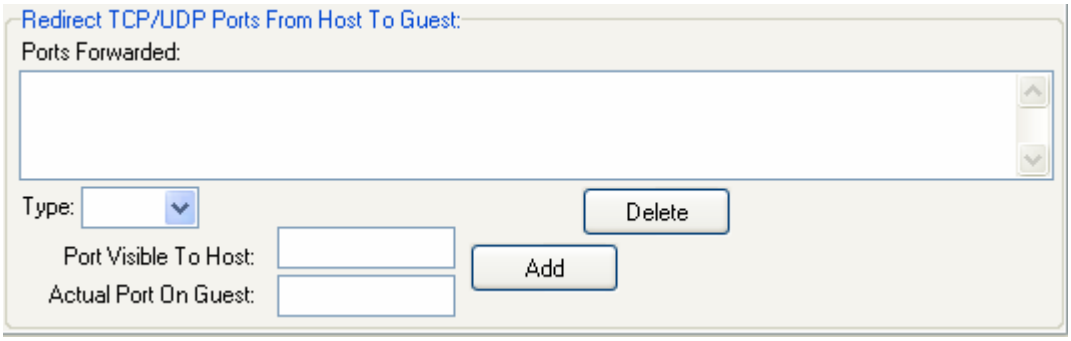
Enable built in FTP Server Folder Sharing – This feature allows you to access a folder on the host machine via TFTP (Trivial FTP). If this option is selected below it you must specify the folder you wish to share. (See later on full File Sharing).

Mac Address – If Required you can specify the MAC address for you network card(s) (the format is aa:bb:cc:dd:ee:ff in hex). This will be incremented for each new network card.

To delete a network setting click the “Delete Selected” button, you will be prompted to acknowledge the removal.

To Edit an already existing network setting click the “Edit Selected” button.

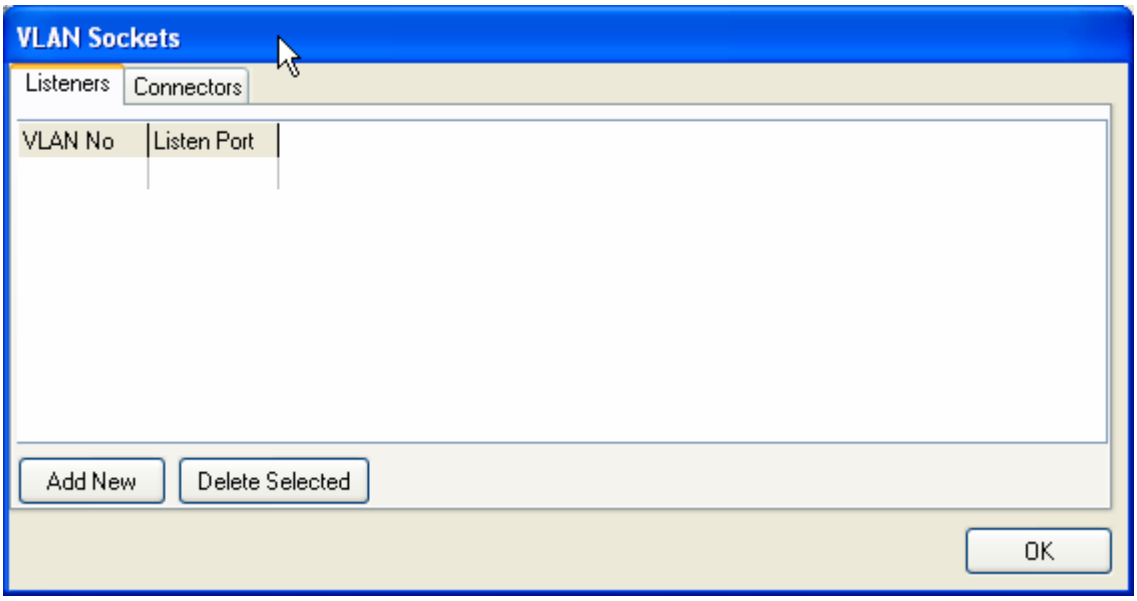
Redirect TCP/UDP Ports From Host To Guest




This will redirect incoming TCP or UDP connections to the host port host-port to the guest guest-host on guest port guest-port.

**Virtual LAN Sockets**

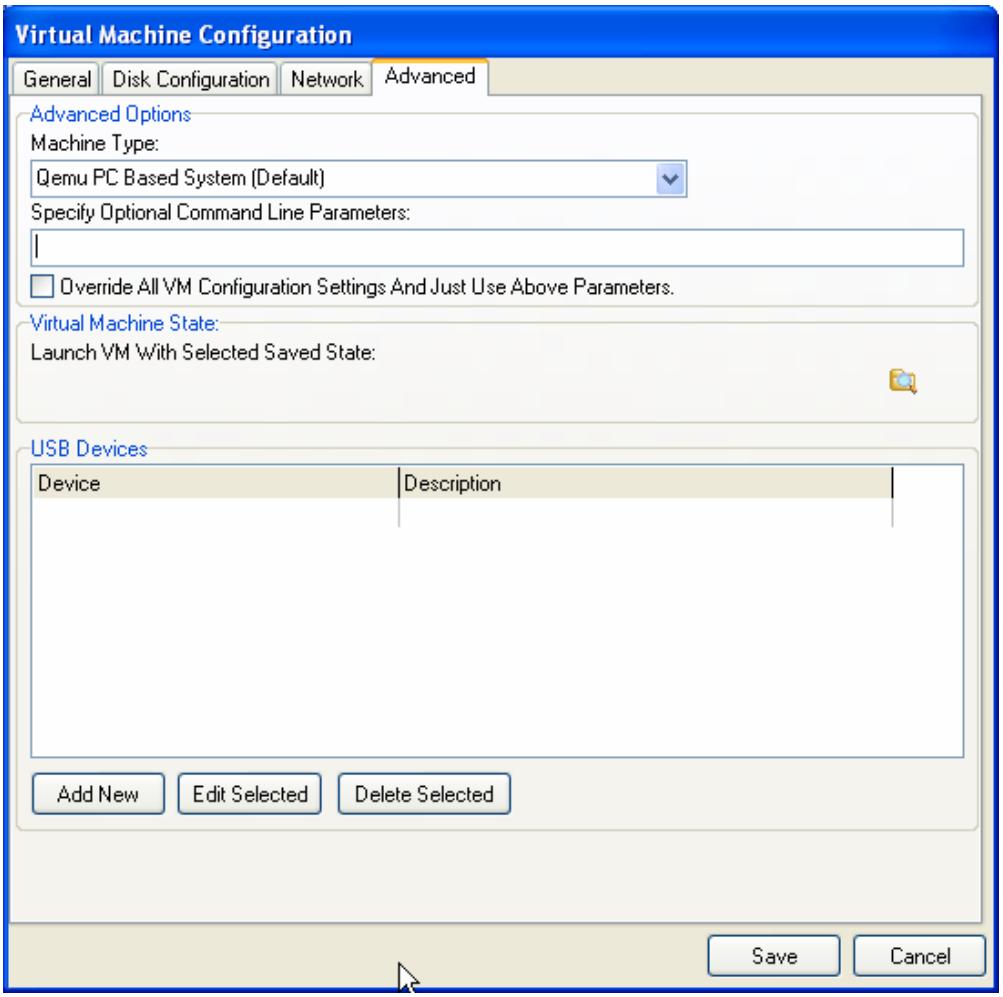
To add or maintain Virtual LAN Sockets click the “Sockets” button from the network tab.




The window contains 2 sections “Listeners” and “Connectors”

(For more details on Virtual LAN Sockets, see the QEMU documentation)

## Advanced




## Advanced Options

Machine Type – This option will allow you to specify the machine architecture you want to be ran when the VM is launched. *(See Chapter 5 for more detailed explanations)*

Specify Optional Command Line Parameters – This option will allow you to specify any other command line parameters Qemu Manager does not currently support.

## Virtual Machine State

Launch VM with Selected Saved State – This option will allow you to launch the VM from a previous state.

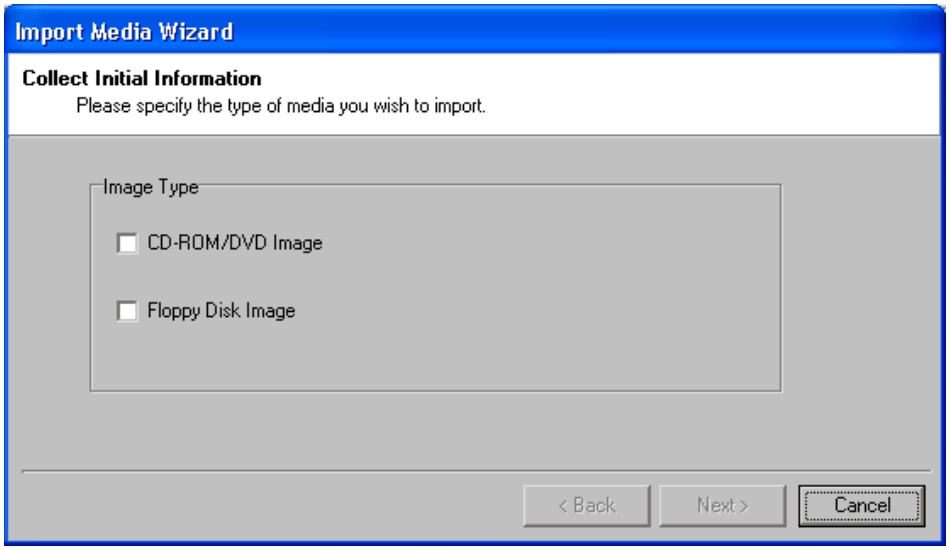
## USB Devices

Here you can specify any Host USB devices you wish to use with QEMU 0.8.0 and above. (For more details on USB, see the QEMU documentation)

## Chapter 4. Media Management

With Qemu Manager, you can import CD-ROM, DVD & Floppy Disk images to be used with Qemu, These images can be stored on your hard disk, which can greatly increase the speed they are read via Qemu.

To Import media click the Import Media button from the main Qemu Manager Toolbar. 



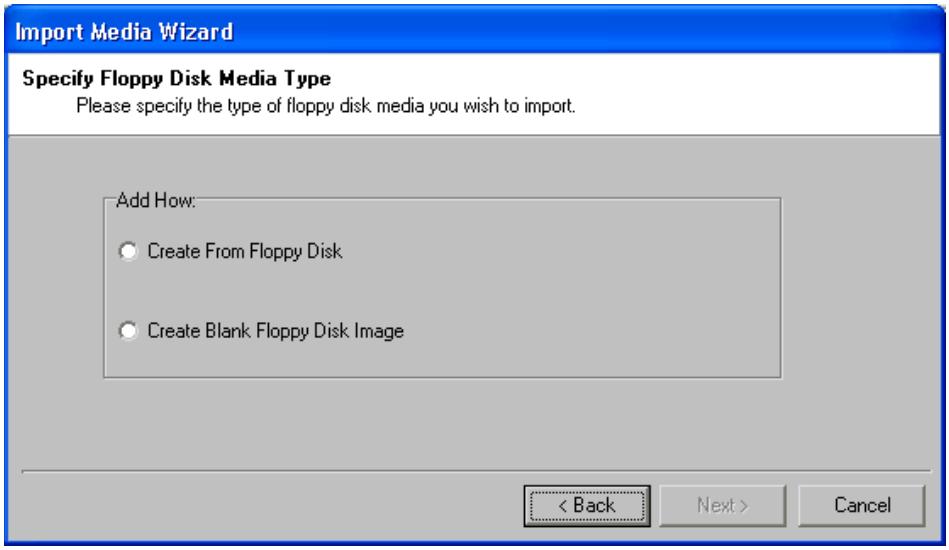

You will then be asked to specify which type of media you wish to import.

CD-ROM/DVD Image – Selecting this option will allow you to create a disk image of a cd-rom/dvd that is currently inserted into your cd/dvd rom drive.

Floppy Disk Image – Selecting this option will allow you to create a disk image of a floppy disk that is currently inserted into your floppy disk drive.

When you have made your selection click the Next button.

## Creating A Floppy Disk Image



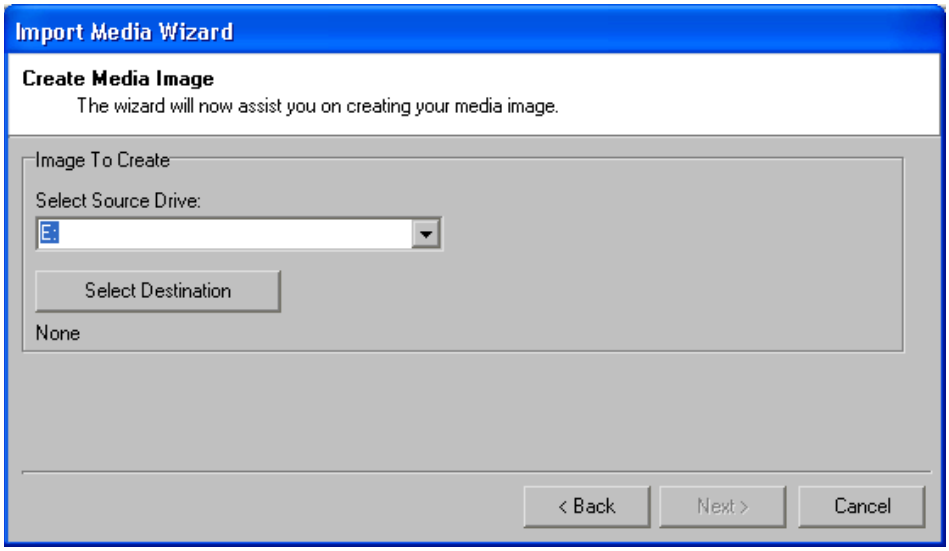

The following wizard screen is shown only if you are creating a floppy disk image. There are 2 different ways you can create floppy disk images.

Create From Floppy Disk – By selecting this option Qemu Manager will transfer the contents of a Floppy disk into a disk image.

Create Blank Floppy Disk Image – By selecting this option Qemu Manager will create a blank floppy disk image for you. This is useful for creating a recovery disk etc..

Once you have made your selection click the Next Button.

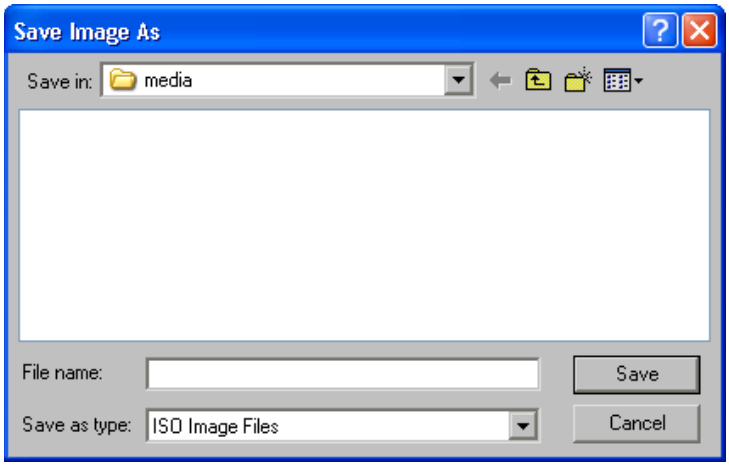
The next wizard screens are identical whether you are creating a floppy disk image or cd-rom image.




Next you must specify the source drive that the image will be created from.

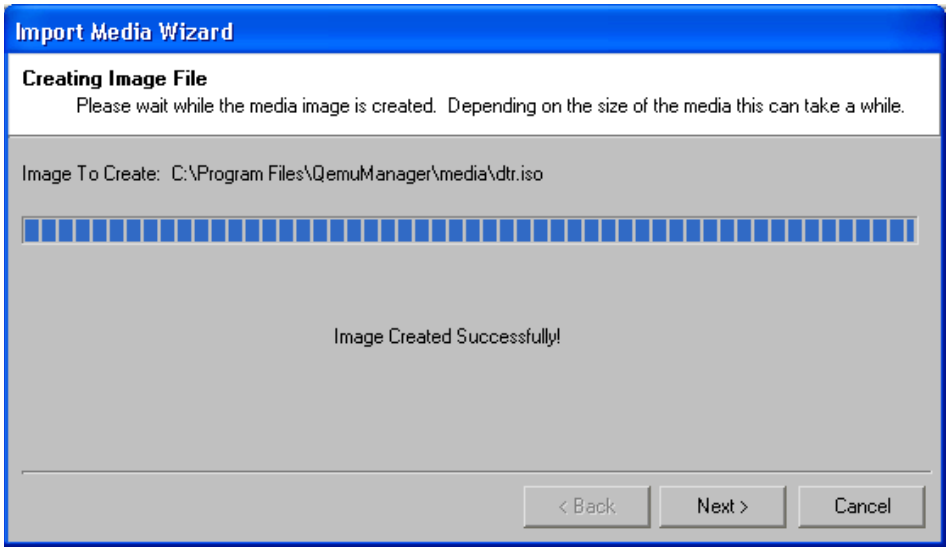
If you are creating a cd-rom/dvd image select the drive letter of your cd/dvd rom drive. If you are creating a floppy disk image select the floppy disk drive letter that the floppy disk is inserted.

Next you need to specify the destination of the image file, you can do this by clicking the ”Select Destination” button.




You will then be prompted to enter a filename for the image. When done click the Save Button.

When you have finished making all the selections click the Next button.




The image file will then be created. When finished click the Next Button.

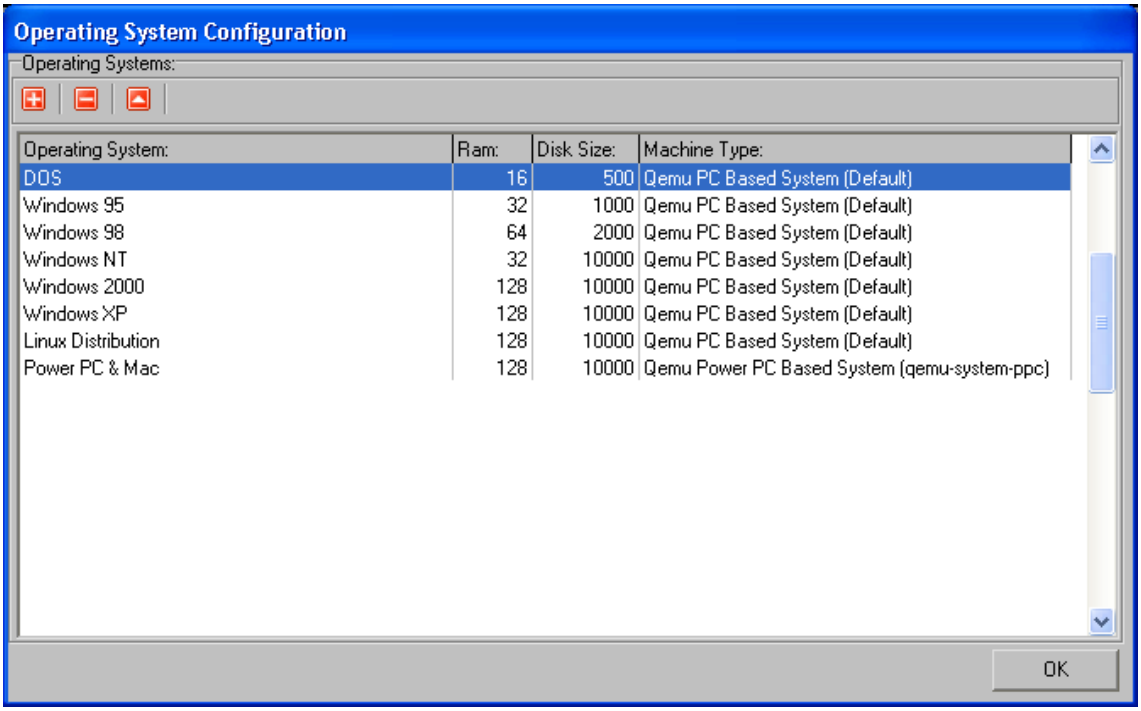
Thats It! – As you can see Qemu Manager makes it easy to import media to use with Qemu.

# Chapter 5. Configure Operating Systems

Qemu Manager allows you to setup operating system defaults, so that you can quickly create Virtual Machines via the “Create New Virtual machine” button. 

To configure operating system defaults click on the “Options” pull-down menu at the top of the main Qemu Manager window.

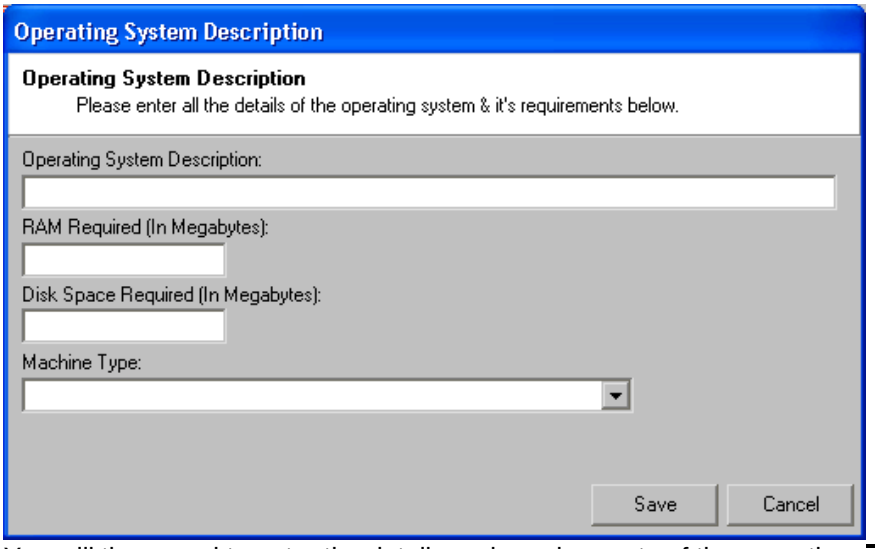

Next select “Configure Operating System Defaults”. You will then see the main “Operating System Configuration” window.




The window will display all created operating system defaults these include the operating system name, Ram Size Required, Disk Size Required, and the machine type the operating system needs to be launched by.

To Create a new operating system default

To create a new operating system default click the new button on the top toolbar. 




You will then need to enter the details and requirements of the operating system.

Operating System Description – You can specify a description here or just enter the name of the operating system.

Ram Required (In Megabytes) – Enter the amount (in megabytes) of ram needed for this operating system.

Disk Space Required (In Megabytes) – Enter the amount (in megabytes) of disk space needed for this operating system.

Machine Type – Qemu emulates different machine architecture currently Qemu Manager allows you to select one of four different types:

**Qemu PC Based System (Default)** – This option will emulate a standard Intel x86 PC.

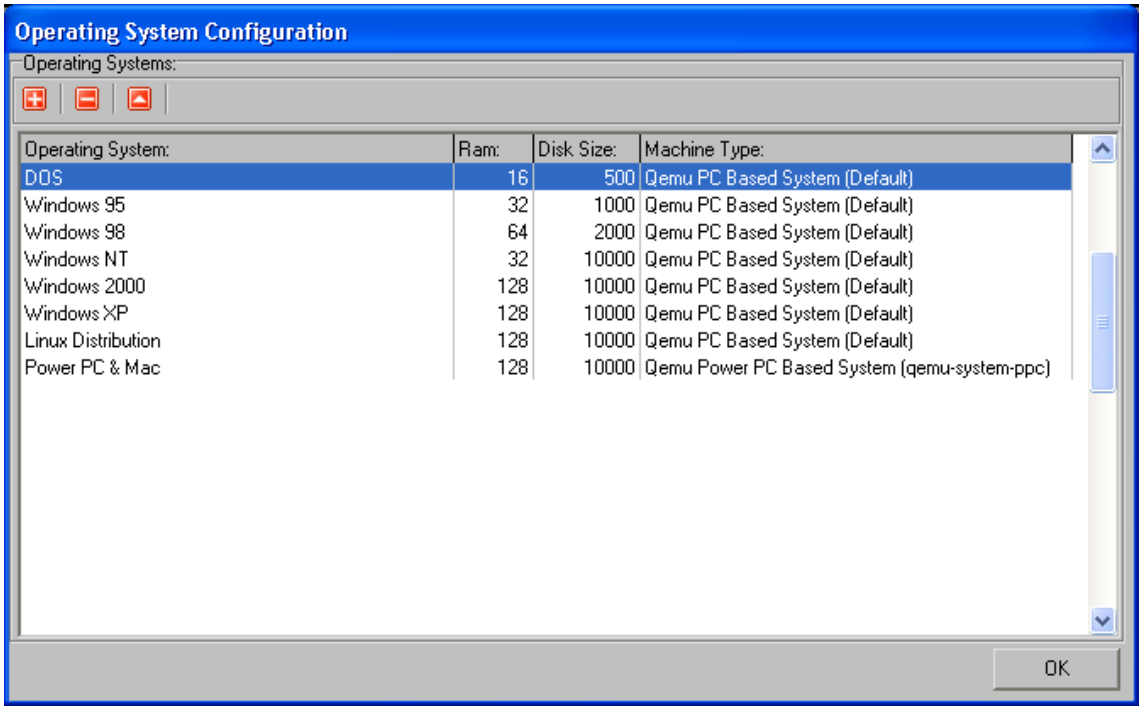
**Qemu Power PC Based System (qemu-system-ppc) –** This option will emulate a Power PC Based computer this is commonly used my Apple Mac Computers, and supports many other operating systems.

**Qemu Sparc Based System (qemu-system-sparc)** – This option will emulate a Sparc based computer system.

**Qemu x86_64 PC Based System (qemu-system-x86_64)** – This option will emulate a 64 Bit x86 Based System. (This option depends on the version of Qemu you are running).

**Qemu MIPS Based System (qemu-system-mips)**– This option will emulate a Mips Based System. (This option depends on the version of Qemu you are running).

When you have finished creating your operating system default click the Save button.




* To Delete an operating system default click the Delete button from the top toolbar.

***** To Edit an operating system default click the Edit button from the top toolbar.

# Chapter 6. Exclusive Mode

Even though the Exclusive mode is still in “Experimental” stage, it provides extra functions when running Qemu. The function works exactly the same as the “Launch VM” button,  but has the following differences:

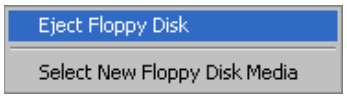
1) You can only launch ONE Qemu session at a time in exclusive mode. If a Qemu session is already running, Qemu Manager will not launch another in Exclusive Mode.

2) Exclusive mode provides you with an extra control toolbar as shown below:

This toolbar (Located at the bottom of the Qemu Manager Window) allows you to send commands to the Qemu Console (Usually accessed by CTRL+ALT+2), therefore making it quicker to perform commands.

Below is a summary of each button and its duty:

 - This button will allow you to eject and/or change floppy disk media during a Qemu Session once clicked you will be prompted with a menu.




To eject any active Floppy disk image click the “Eject Floppy Disk” option.

To select a new media image to use click the “Select New Floppy Disk Media” option. You will then be prompted to specify the image file name.

 - This button will allow you to eject and/or change cd-rom media during a Qemu session once clicked you will be prompted with a menu.


To eject any active cd-rom image click the “Eject CDROM” option.

To select a new media image to use click the “Select New CD-ROM Media” option. You will then be prompted to specify the image file name.

 - This button will enable full-screen mode, during a Qemu Session.

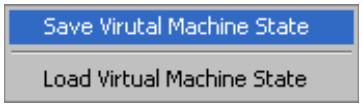
 - This button will allow you to pause a Qemu Session. To resume the session click the  button located on the BOTTOM toolbar.

 - This button will bring up the Qemu Console.

 - This button will perform a “Reset” during a Qemu Session, This is exactly the same as hitting the reset button on a PC.

 - This button will attempt to close the running Qemu session.

 - This button will allow you to save the state of a Qemu session or open a previously saved state. Once clicked you will be prompted with a menu.




To save the session state click the “Save Virtual Machine State” button. You will be prompted to enter a name for the saved session.

To Load a session state click the “Load Virtual Machine State” button. You will be prompted to select the saved session.

 - This button will send a CTRL-ALT-DEL signal to the Qemu Session. This is ideal for Windows NT logins etc….

**Troubleshooting Exclusive Mode**

Due to the exclusive mode still being in the “Experimental” stage you may encounter problems. This short guide may help overcome some of these.

The exclusive mode toolbar, sends commands to Qemu via a keyboard pipe, (i.e. it actually types all the commands for you saving you from having to). This may cause problems with different keyboard setups etc… Personally I have never had a problem with exclusive mode it works great for me. I wrote the system using a UK keyboard driver (even though I experimented with many other drivers).

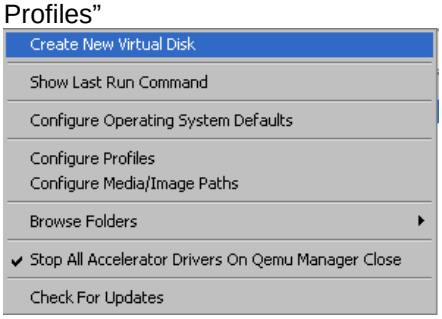
Ejecting media - When using the eject media option when changing cd-rom/floppy disk images in exclusive mode the command sent is “EJECT –F CDROM” One problem I encountered was the “-“ sign on different keyboard drivers. To overcome this I have added an option to disable the “-F” function (Use compatibility media eject). You can find this in the program settings section of the program *(See Chapter 7).*

Sleep Time – Another feature of exclusive mode is the Sleep Time. This is the time between keystrokes that Qemu Manager sends a key to the Qemu Console. The default is “50”. And for all different machines I have tried this on it works great. This value may need to be adjusted for slower/super fast machines. You can do this from the Program Settings section of the program *(See Chapter 7)*

# Chapter 7. Qemu Manager Profiles.

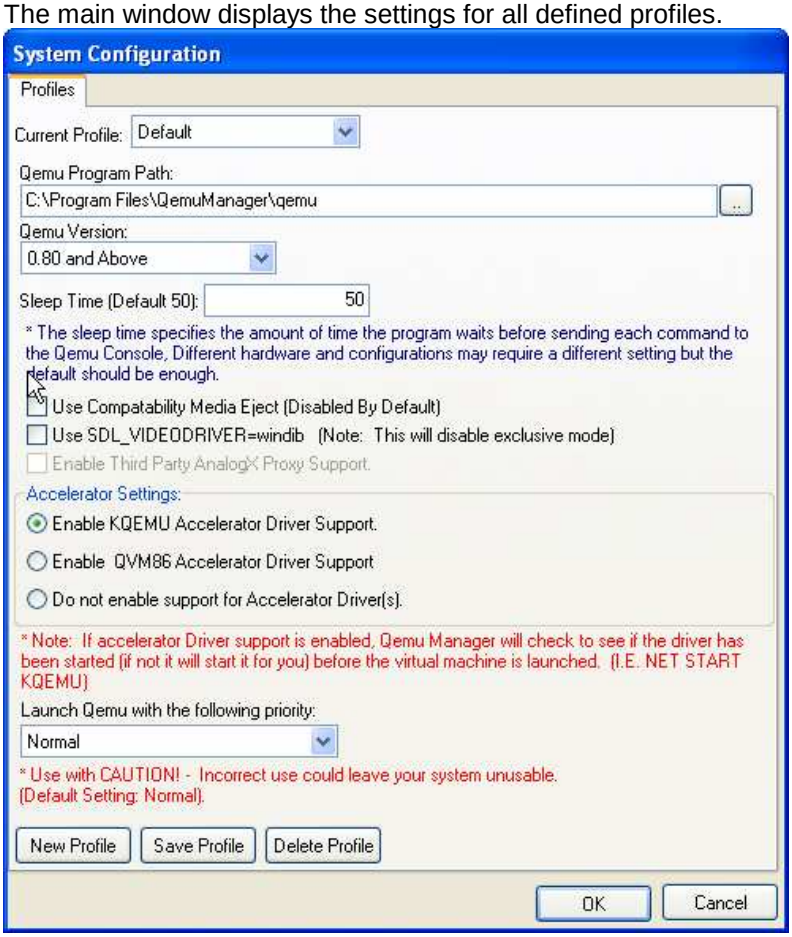
Qemu Manager allows you to create multiple profiles to use with your Virtual Machines. Unlike Virtual Machines, profiles contain details of the actual QEMU environment, i.e. Location that QEMU is installed, sleep time, SDL_VIDEODRIVER, Accelerator settings etc. This is extremely useful if you have several Virtual machines setup which need to be launched by different editions/versions of QEMU.

To configure/view profiles either click the “Options” pull-down menu and select “Configure Profiles”



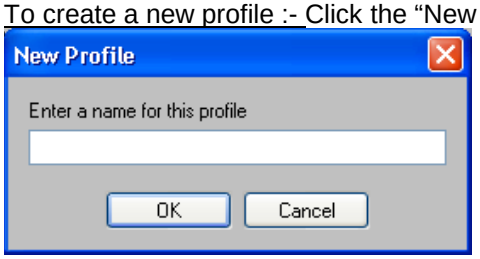

or click the  main window toolbar button.

The main window displays the settings for all defined profiles.



To view a different profile :- Select the profile name from the “Current Profile” selection box at the top of the window, that specific profile details will then be shown.

To create a new profile :- Click the “New Profile” button. A dialog will then appear:




Enter a unique name for the profile then click OK. You can then fill in the details required for the profile. Remember to click the “Save Profile” button when you are done.

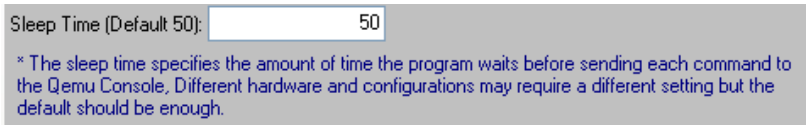
To delete a profile :- Ensure the profile is currently been displayed on the screen, then click the “Delete profile” button. You will be prompted to confirm the deletion.


**(NOTE: You CANNOT delete the “Default” profile).**

**Profile Settings**


Qemu Path :- The path QEMU is installed, Qemu Manager will use QEMU located in this path, when the profile is used with a VM.

Qemu Version – This option specifies what version of Qemu you are using with this profile.




Sleep Time – The sleep time specifies the amount of time the program waits before sending each command to the Qemu Console. *(See Chapter 6 for more info)*, Qemu Manager will use this sleep time, when the profile is used with a VM.


Use Compatibility Media Eject – If enabled media will not be forceably ejected in exclusive mode. *(See Chapter 6 for more info)* – Qemu Manager will use this setting, when the profile is used with a VM.

(Use SDL_VIDEODRIVER=windib) - If you are having problems using full screen mode when running Qemu tick this box. **(NOTE: You cannot use the windib option with exclusive mode, exclusive mode will be disabled if this option is ticked)**. Qemu Manager will use this setting, when the profile is used with a VM.

Enable Third Party AnalogX Proxy Support – If you install the AnalogX proxy server from (http://www.analogx.com), this option will be available to enable/disable. This option will allow you to access an internet connection behind a firewall/proxy in a Qemu Guest session, provided the analogx proxy program is installed on your host pc. On enabling this option and clicking the "Save" button you will be asked if you would like Qemu Manager to automatically configure it for use with QEMU. Qemu Manager will use this setting, when the profile is used with a VM.

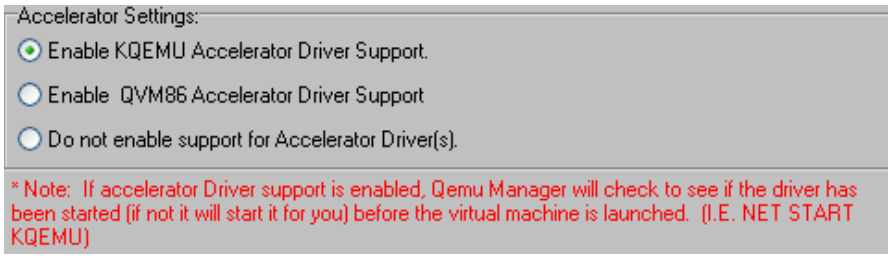
In the guest OS you would configure your web browsers proxy settings to the following:

**IP: 10.0.2.2 Port: 6588**

No authentication is required.

Qemu Manager will launch AnalogX Proxy on VM Launch and close it when Qemu Manager is shut down.

## Accelerator Settings




Qemu for Win32 currently has 2 different types of accelerator modules available. These modules are designed to speed up the emulation speed of Qemu by passing data directly to the CPU.

KQEMU

| Emulator | Speed Comparisons |
|---|---|
| QEMU | Between 5 – 10 times slower than native. |
| QEMU With KQEMU | Between 1 – 2 time slower than native. |

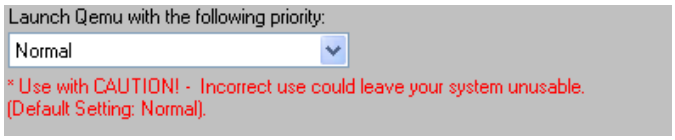
The QEMU Accelerator is free to use, but it is a *closed source proprietary product*. You are not allowed to distribute it yourself to other people without an explicit authorisation. You can download the KQEMU accelerator from fabrice's site. (http://fabrice.bellard.free.fr/qemu).

QVM86 - is a kernel module to provide x86 virtualisation capabilities for the qemu emulator. Virtualisation allows "emulated" code to be run natively on the host cpu, using the CPU protection mechanisms to intercept and emulate privileged events.

Both accelerators claim to increase the emulation speed of QEMU.

Qemu Manager will use this setting, when the profile is used with a VM.

## QEMU Launch Priority




When you launch QEMU via Qemu Manager, you can specify the priority of the launched QEMU Process.

If a particular Qemu Session is running too fast or too slow on your machine or if a session is taking too much of your CPU time or if you want a session to take more of your computing power then you can change the priority the Qemu Session runs at.

There are currently 6 different priorities:

Low
Below Normal
Normal
Above Normal
High
Realtime

For most users the default NORMAL will be sufficient.

**WARNING – REALTIME is a higher priority than most of the operating system tasks themseleves launching QEMU with this priority could cause all sorts of problems with your PC!**

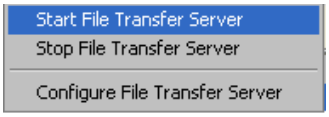
Qemu Manager will use this setting, when the profile is used with a VM.

# Chapter 8. File Transfer

The File Transfer Server, allows you to send/receive files from the host/guest pc via FTP.

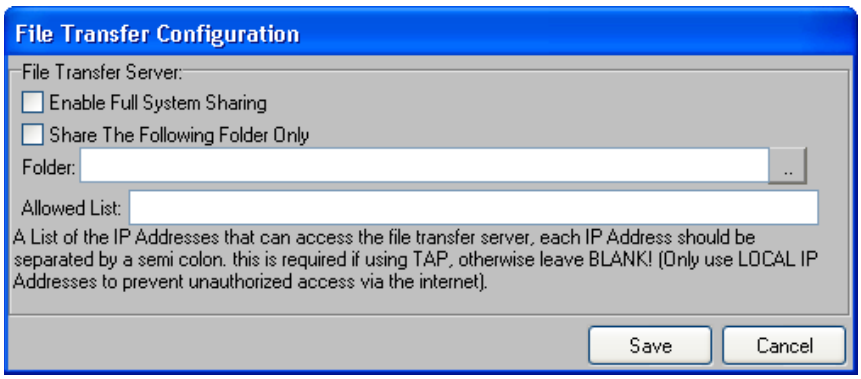
Before you can use the file transfer server you need to configure it.

To do this click “File Transfer” on the top pull-down menu.




Next select “Configure File Transfer Server”.

Configuration




Enable Full System Sharing – If this option is checked, Qemu Manager File Transfer Server will share your whole host hard disk for use with Qemu.

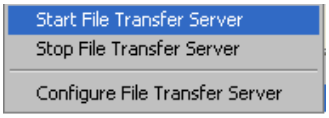
Share The Following Folder Only – If this option is checked, Qemu Manager File Transfer Server will share a single folder on the host pc for use with Qemu

Folder – If the above option is checked you must specify the folder you wish to share.

Allowed List – A list of IP Addresses than can access the file transfer server. Each IP Address should be separated by a semi colon (For Example: 1.1.1.1;2.2.2.2;3.3.3.3). Please be aware this is only necessary if you are using TAP for networking in QEMU, and you should only use LOCAL IP Addresses not global ones. This will permit unauthorized use via the internet.

Starting/Stopping

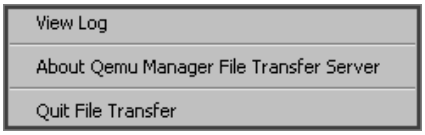
Once configured you can use the “File Transfer Server”, to do this click “File Transfer” on the top pull-down menu.




Next select “Start”.

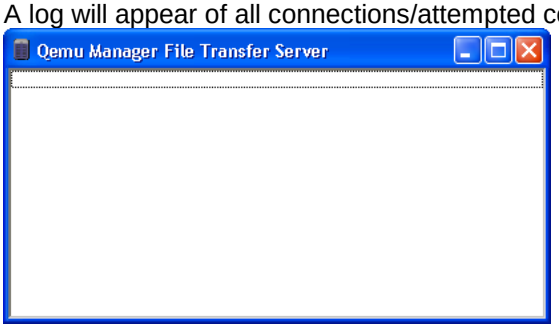
^ An icon will appear on the bottom right Windows system tray.

You are now ready to use the file transfer server.
You can access the “File Transfer Server’s” options by right clicking on the icon, a menu will appear:




To view the servers activity log select “View Log”

A log will appear of all connections/attempted connections.




Using the File Transfer Server on the guest PC

To use the system, you will need to install an FTP client on the guest pc. The login details are as follows:

User name: QEMU
Password: QEMU

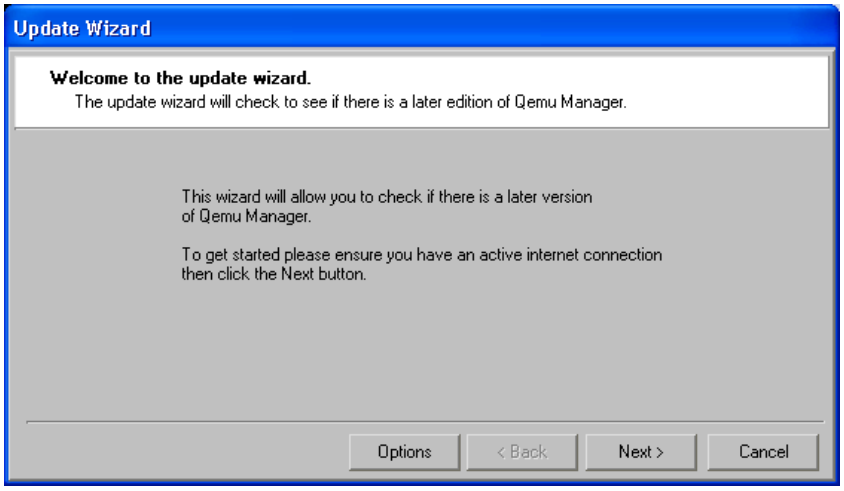
To Stop the “File Transfer Server” click “File Transfer” on the top pull-down menu and select “Stop”.

# Chapter 9. Updates

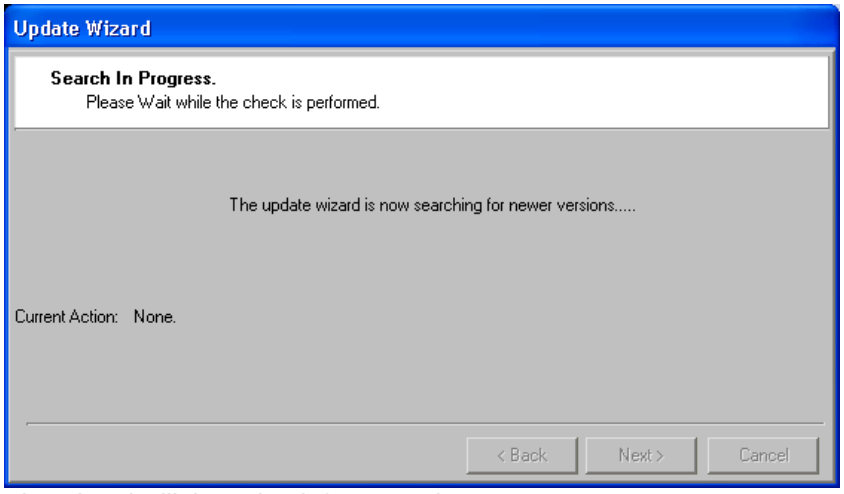
As from version 1.0 Qemu Manager has an automatic update facility. You can run this to check if there is a newer version of Qemu Manager available to download.

To use the update facility, click on “Options” on the top pull-down menu and select “Check For Updates”. You will see the following dialog:


Before you can update Qemu Manager it needs to be closed, click “Yes” to close it.

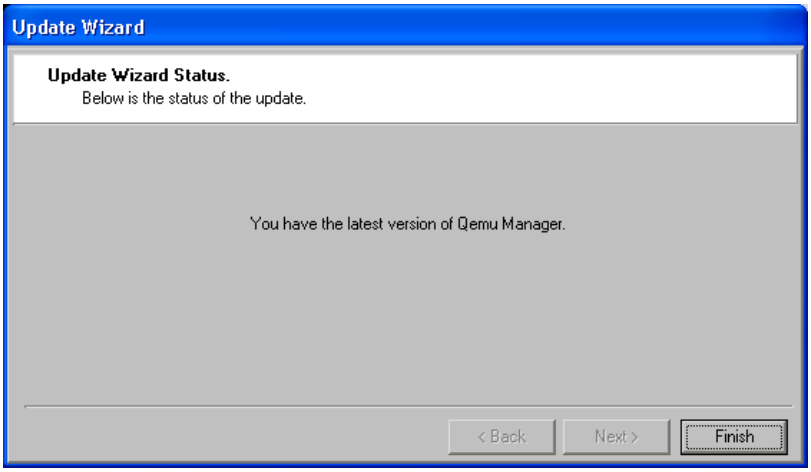



First you will receive a summary. If your internet connection is via a proxy server you can click on the “Options” button and enter the proxy details, otherwise click “Next”.

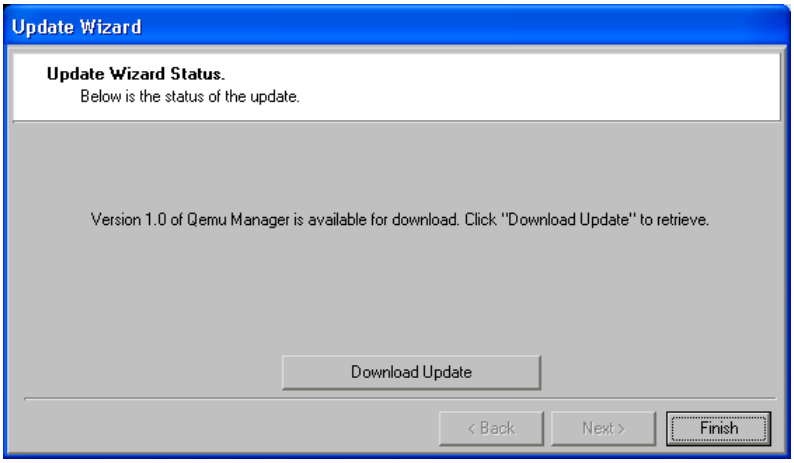



The wizard will then check for an update.

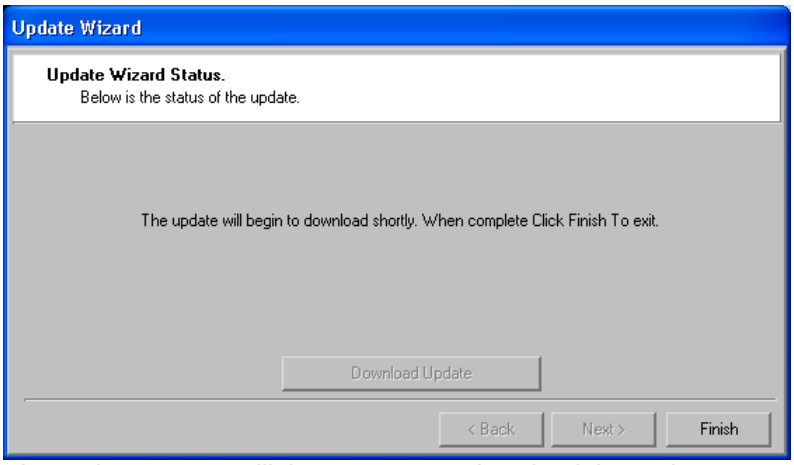
If you have the latest version a dialog will appear:



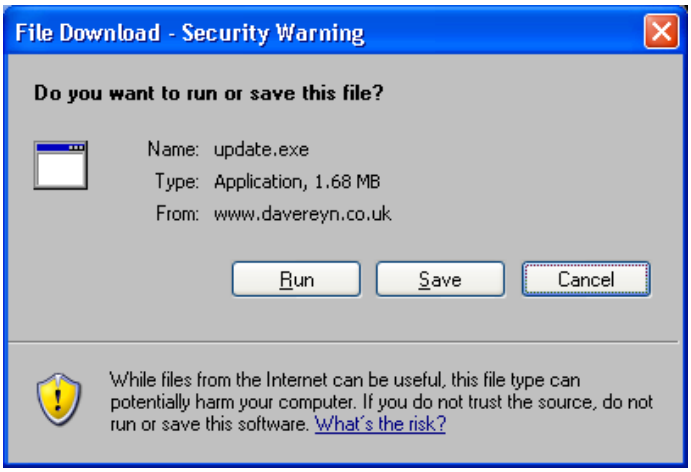

Otherwise you will be prompted with the following:




To update Qemu Manager click the “Download Update” button. If you do not wish to download the update click “Finish”.




The update system will then prepare to download the update.




You must now specify how you wish to download the update, and where to store it (if applicable).

Once the update has downloaded simply click the “Finish” button.  You can now run the update.exe to install the update.

# Chapter 10. Command Line Parameters

The Qemu manager contains 4 command line parameters, this is useful if you want to launch/control QEMU via a batch file.

The parameters are as follows:

Launch

QEMUMANAGER.EXE /LAUNCH <VIRTUAL MACHINE NAME>

For Example: QEMUMANAGER.EXE /LAUNCH “Windows NT 4”

This will launch in exclusive mode the virtual machine named “Windows NT 4” that you have previously setup with Qemu Manager.

Save State

QEMUMANAGER.EXE /SAVEVM <FILENAME>

For Example: QEMUMANAGER.EXE /SAVEVM “ntsession.vm”

This will save the state of the currently running QEMU Session that was started via the /LAUNCH command. When this state is re-launched it will return to the exact point it was when saved) pretty much like a basic hibernate feature.

Load State

QEMUMANAGER.EXE /LOADVM <FILENAME>

For Example: QEMUMANAGER.EXE /LOADVM “ntsession.vm”

This will load the state of a previously save Qemu Session (This can be done after the launch command is used).

*(PLEASE NOTE: The SAVEVM and LOADVM options automatically pause/resume a qemu session before/after saving/loading a VM State)*

Close VM

QEMUMANAGER.EXE /CLOSEVM

This will close a qemu session launched using the /LAUNCH command. Please be aware if this session has not been shutdown correctly, you may get data loss.

Pause VM

QEMUMANAGER.EXE /PAUSEVM

This will pause the running QEMU session started by the /LAUNCH command.

Resume VM

QEMUMANAGER.EXE /RESUMEVM

This will resume a previously paused QEMU session started by the /LAUNCH command.

Practical Usages:

For example we are running a Windows 2000 server host PC, with a service Installed. When the service is started a batch file is ran (i.e. RUN.BAT)

This could look something like:

```
@echo off
C:
CD\Program Files\QemuManager
Qemumanager /LAUNCH “Windows NT 4 Box”
QemuManager /LOADVM “session.vm”
CLS
```

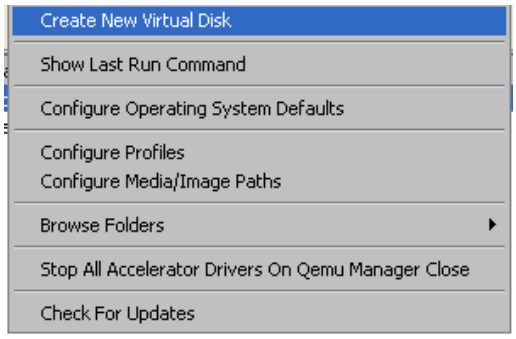
When the service is started a batch file is ran (i.e. STOP.BAT)

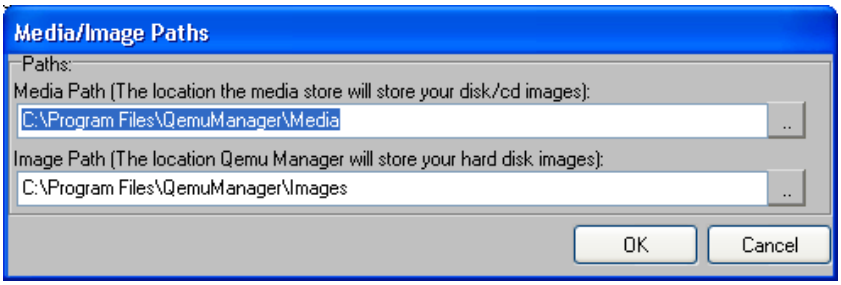
This could look something like:

```
@echo off
C:
CD\Program Files\QemuManager
QemuManager /SAVEVM “session.vm”
QemuManager /CLOSEVM
CLS
```

## Chapter 11. Misc Settings

You can also configure your media store/disk image paths from Qemu Manager, to override the ones specified during installation. To do this click the “Options” pull-down menu and select “Configure Media/Image Paths”



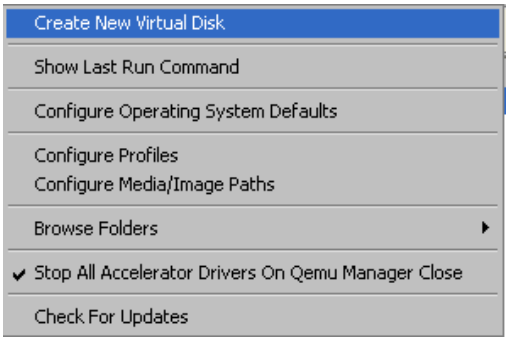




Media Path – This input box represents the location you currently store/will store any media images (I.e. CD-ROM/Floppy Disk Image Files). **Note: for exclusive mode to work all images must be stored in the path.**

Image Path – This input box represents the location you currently store/will store any disk images.

When you have finished making your modifications click “OK”.

Stop All Accelerator Drivers On Qemu Manager Close




If you have specified Qemu Manager to start the KQEMU or QVM86 Driver on VM Launch via the profiles section of the program, you can also specify to stop these when QEMU Manager is closed to do this click the “Options” pull-down menu and select “Stop All Accelerator Drivers On Qemu Manager Close”, once selected a tick will appear next to it. To de-select just perform the above again until the tick disappears.