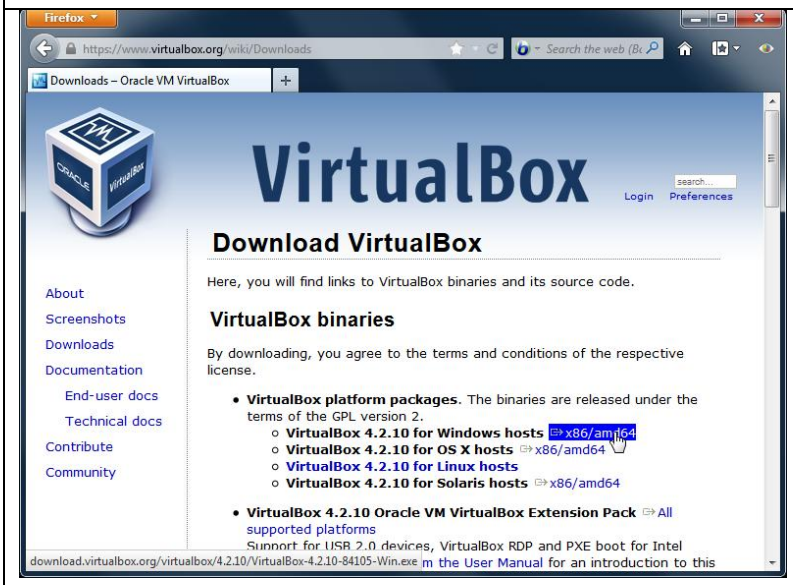
Download and Install VirtualBox

64-bit versions of the Windows operating system do not support legacy programs like Cow Sense. Install a virtual computer with a 32-bit version of Windows to solve this. We recommend VirtualBox for use on 64-bit Vista, Windows 7 Home Premium, and Windows 8. XPMode is a good option for 64-bit Windows 7 Professional because it includes the XP operating system.

Follow the steps below to download and install VirtualBox and set up a virtual computer. This will enable you to install and run Cow Sense.

You will need a 32-bit Windows operating system to install on the virtual computer. You will need installation media and a product key. You may have these from a defunct computer, or you can order from an online retailer or Midwest MicroSystems.

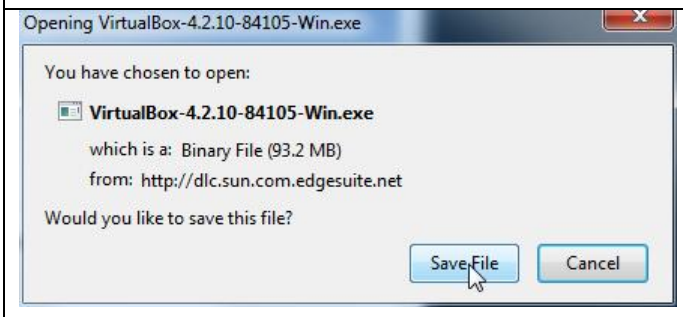


In your web browser go to http://www.virtualbox.org and click Downloads on the left to arrive at the download page.

Click 'x86/amd64' to download the setup package.

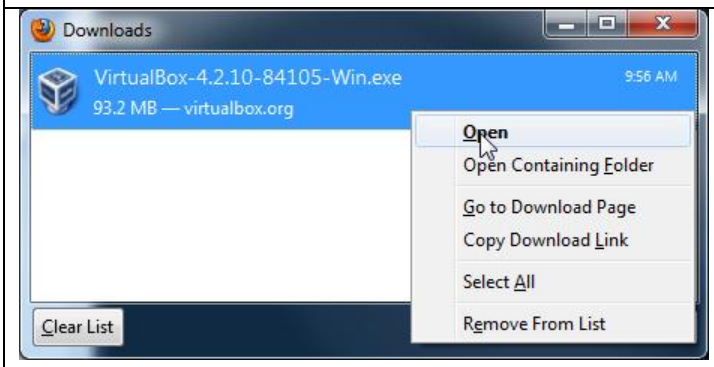
Be sure also to check Documentation > End-user docs for helpful tips, frequently asked questions, tutorials, and user manual.

An online version of the User Manual is here: https://www.virtualbox.org/manual/UserManual.html

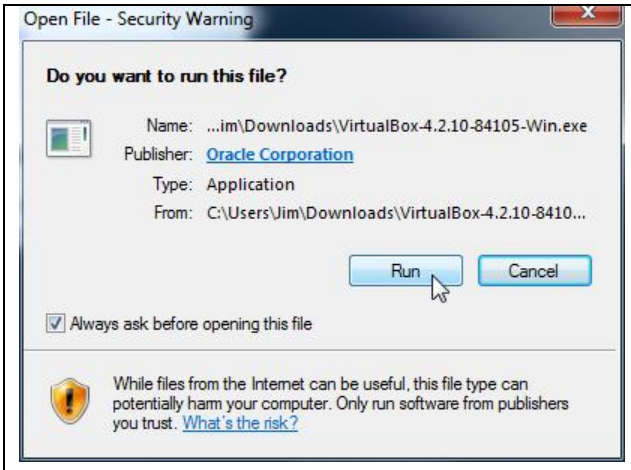


Save the file to your computer, usually in the Downloads folder. Your browser may appear different.

Your VirtualBox download will be a later version than shown here.

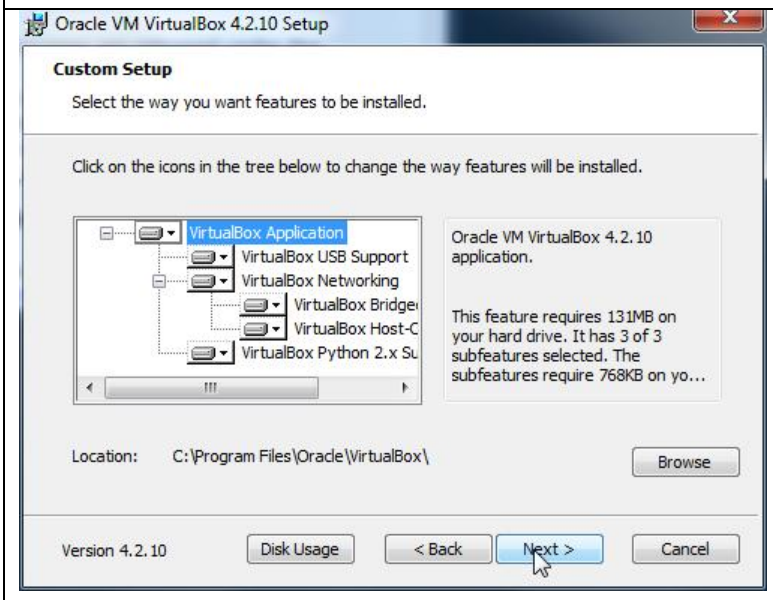


Open or Run the setup package when it is finished downloading. Your browser may appear different.

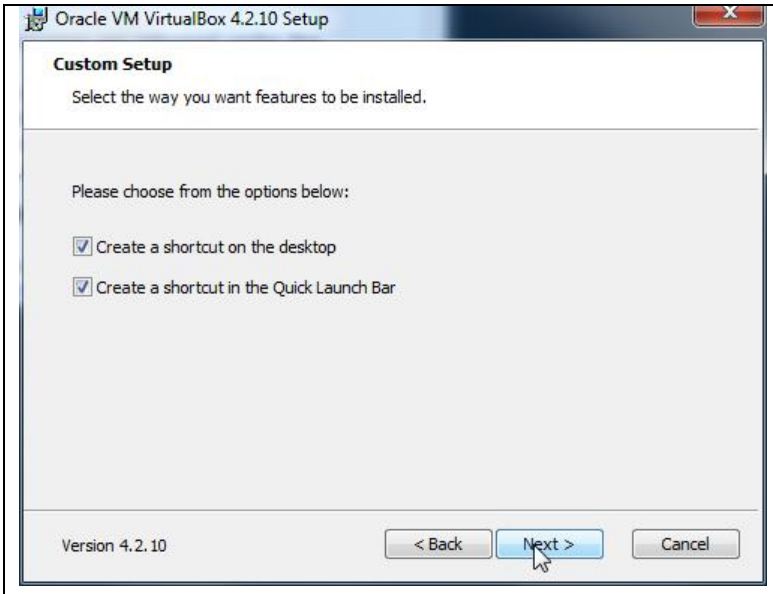
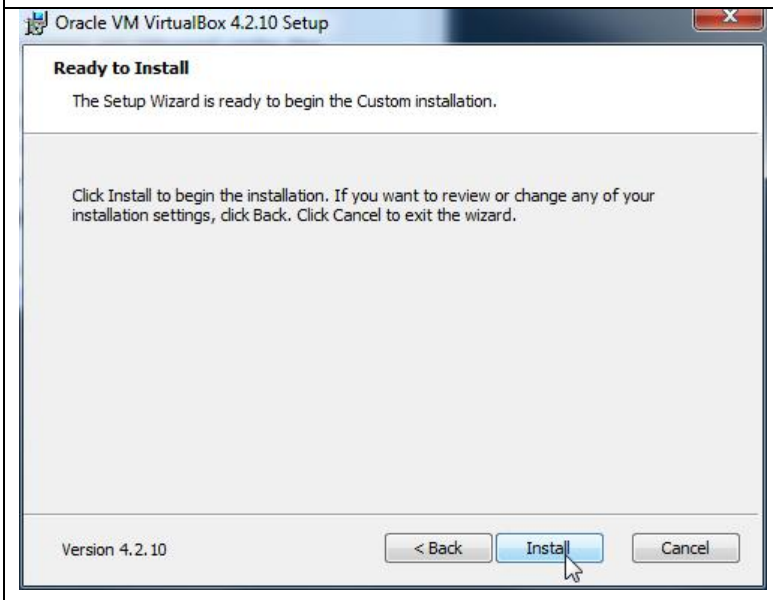


Respond to any security messages in the affirmative. They may look different than shown here.

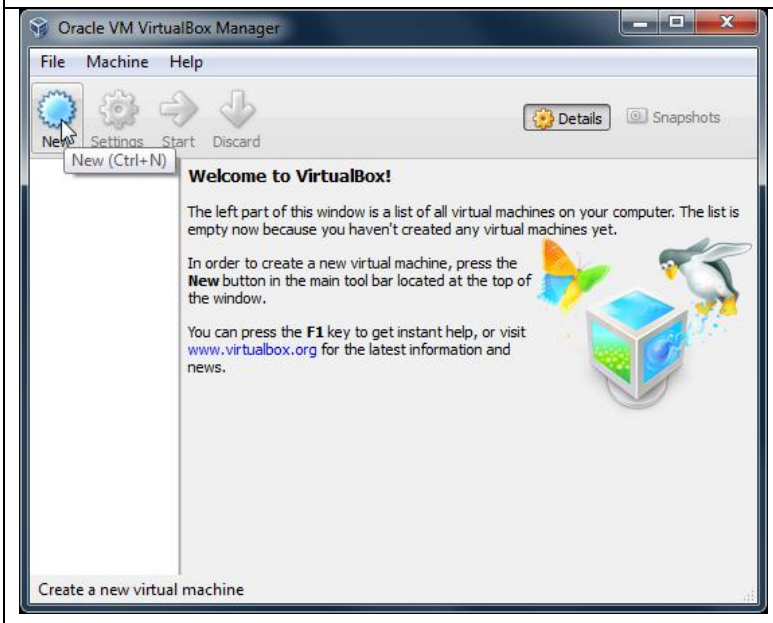
Begin the installation. Your version number may be higher than the one shown here.



Accept the defaults.

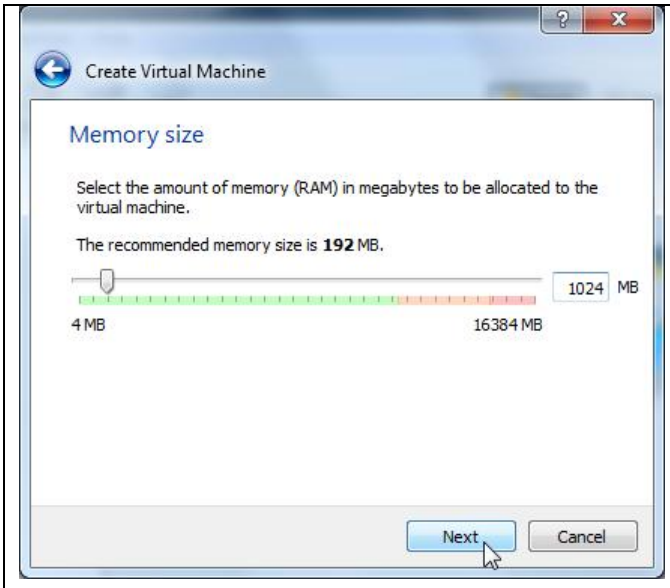
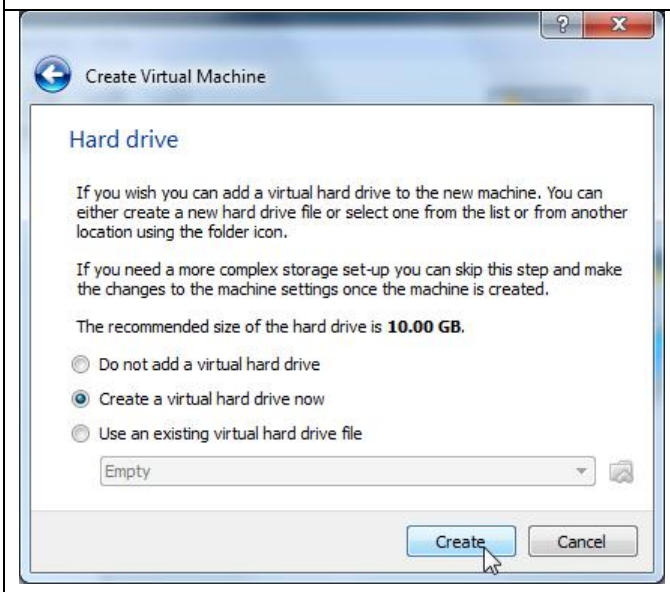
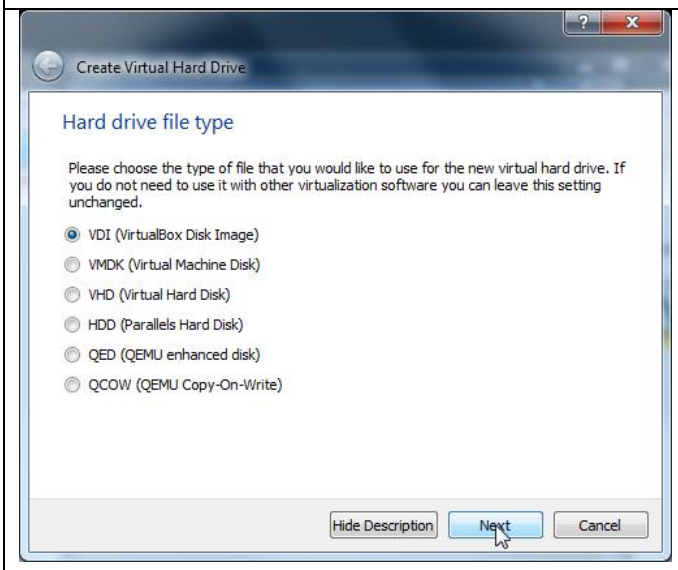
	Accept the defaults.
	Proceed with installation.
	Proceed with installation.

Finish the installation and start VirtualBox. You will have a shortcut on your desktop to 'Oracle VM VirtualBox'.



When VirtualBox starts, create a new virtual machine.

Give your Vitual Machine a name and select your operating system. NOTE: this should be the operating system that you intend to install to VirtualBox. In order to run Cow Sense this needs to be a 32-bit Operating System (We recommend Windows XP, 32-bit Vista or 32-bit Windows 7. Windows 8 is not recommended).

	Select 1024 MB of memory and click 'Next.'
	Accept the default and click 'Create'.
	Accept the default (VDI Virtual Box Disk Image) and click 'Next'.

<table>
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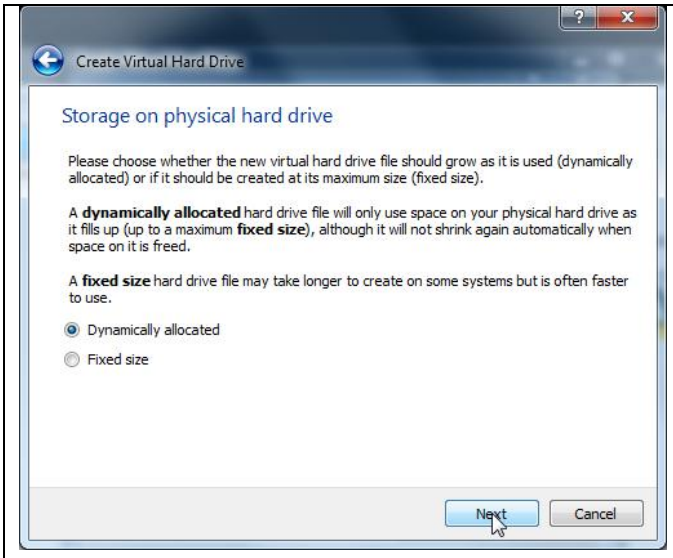
<td> 
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<td>Accept the default (Dynamically allocated) and click ‘Next’.</td>
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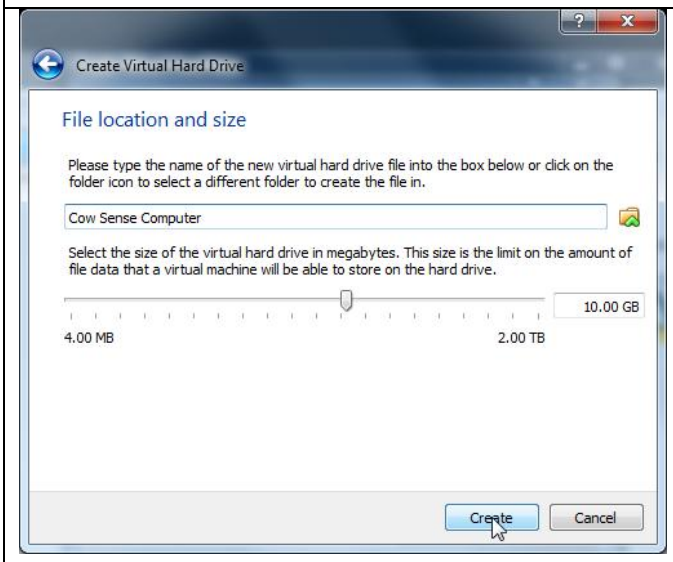
<td> 
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<td>Accept the default file size. Click ‘Create’.</td>
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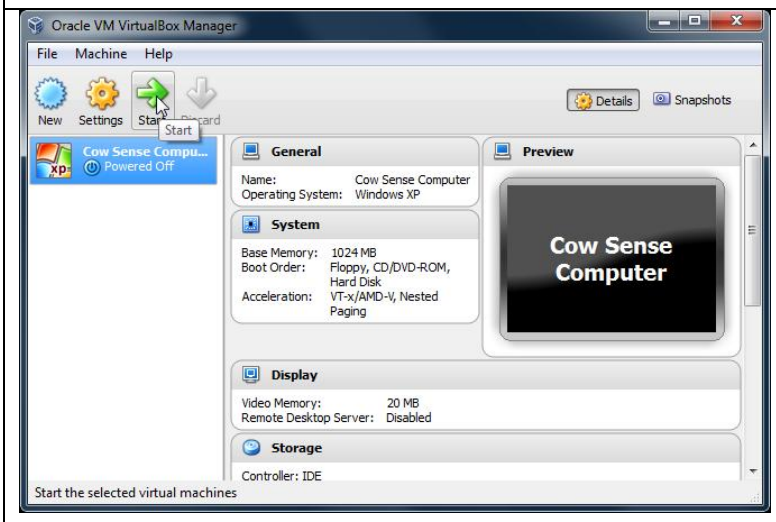
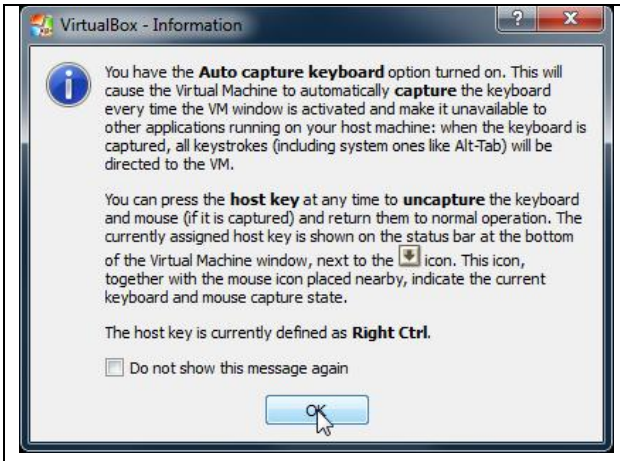
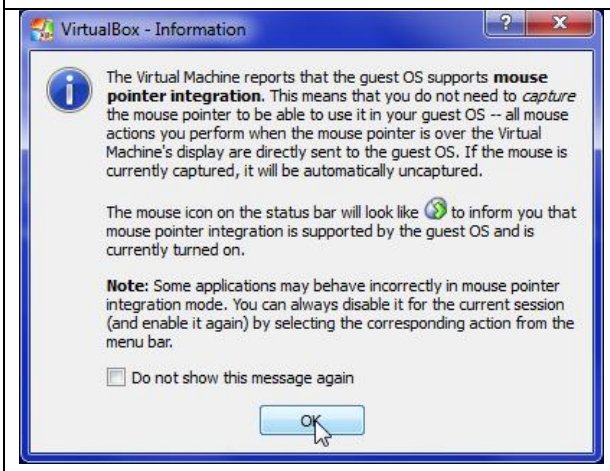
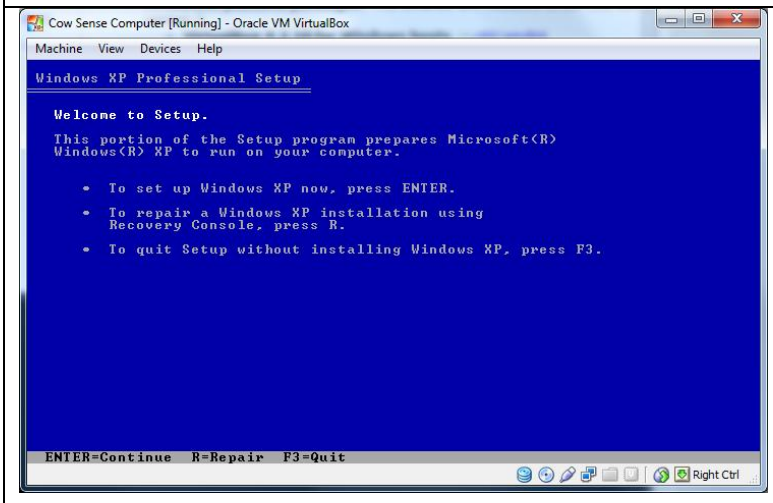
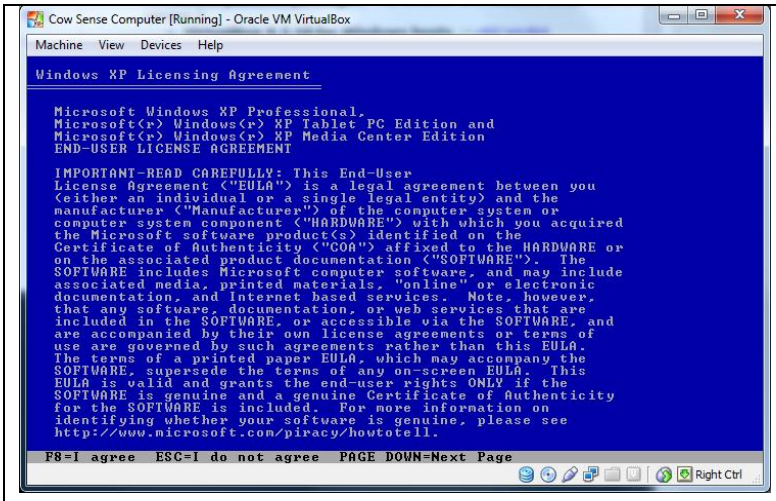
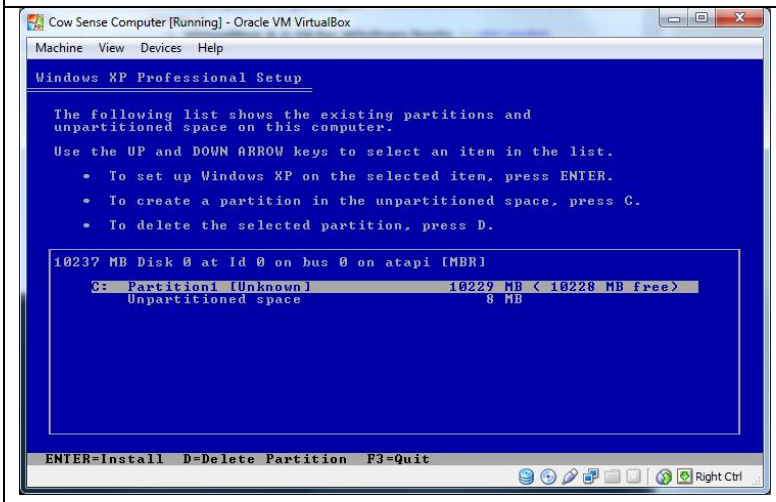
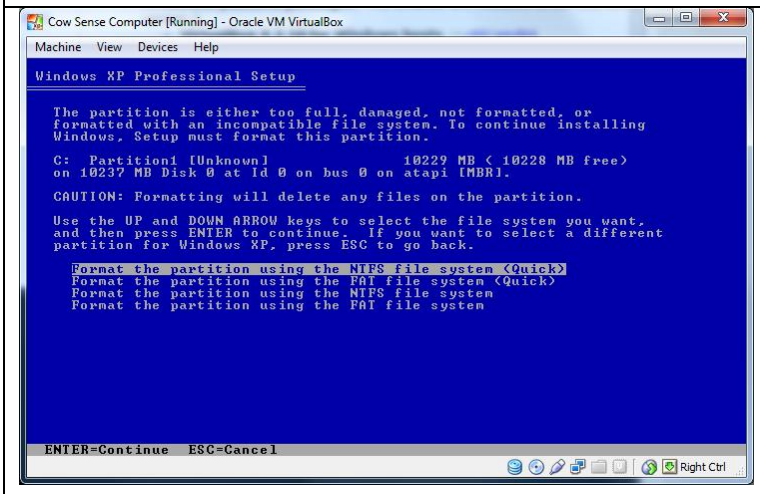
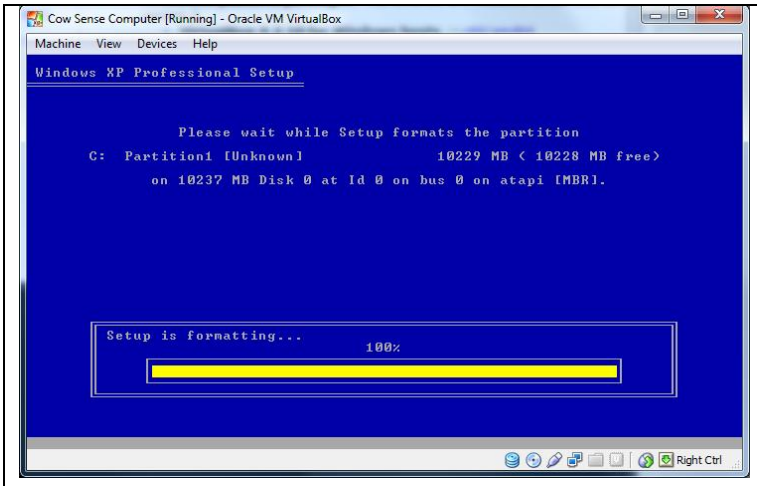
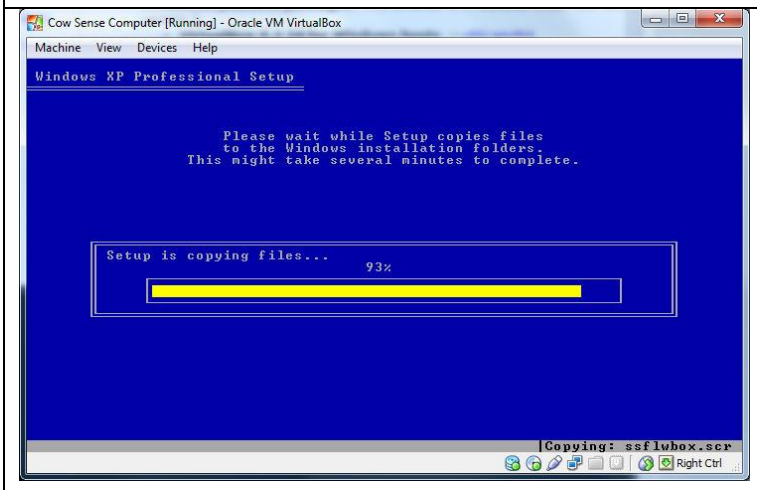
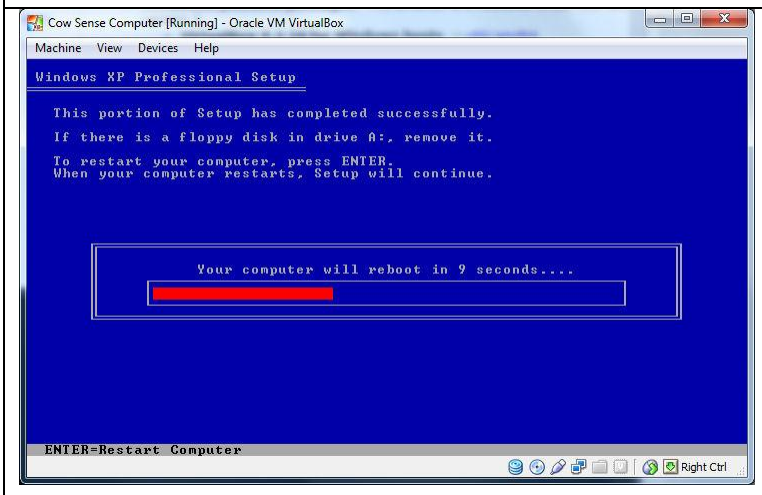
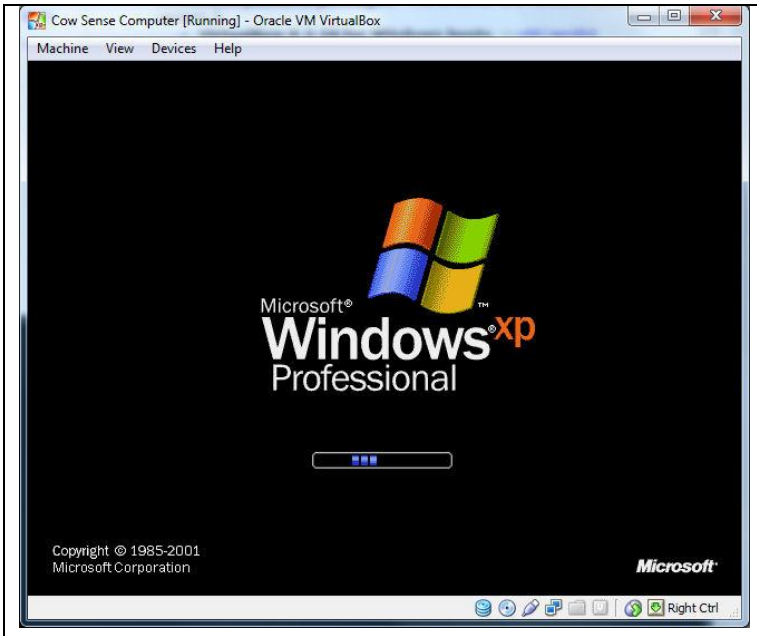
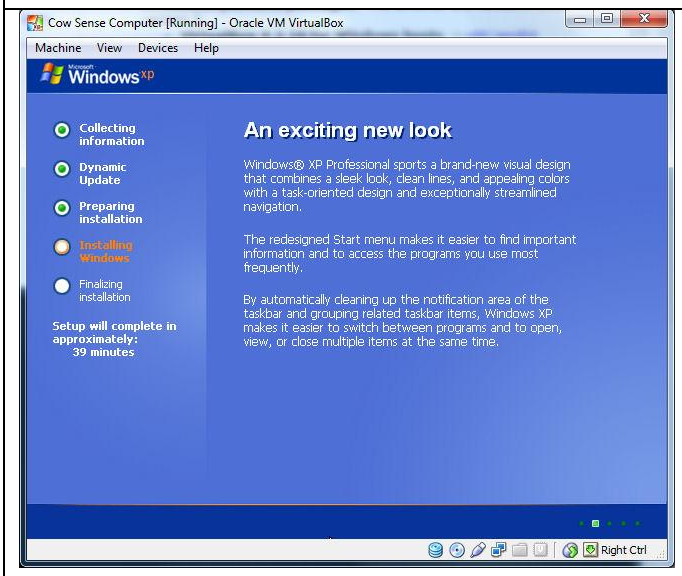
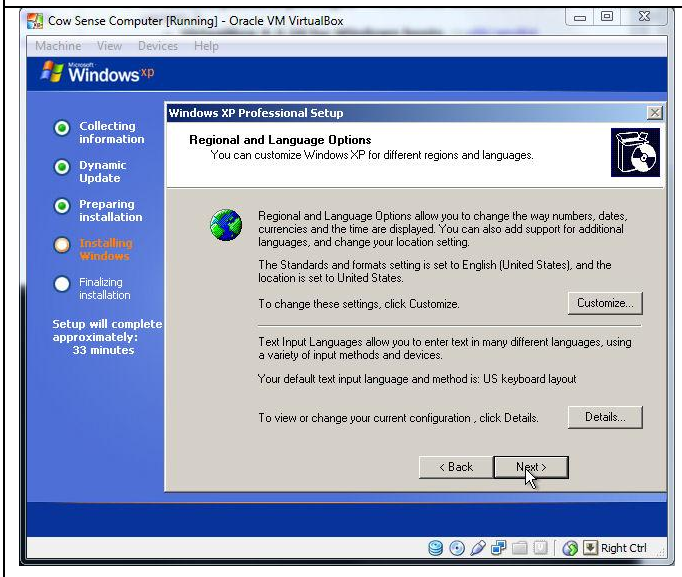
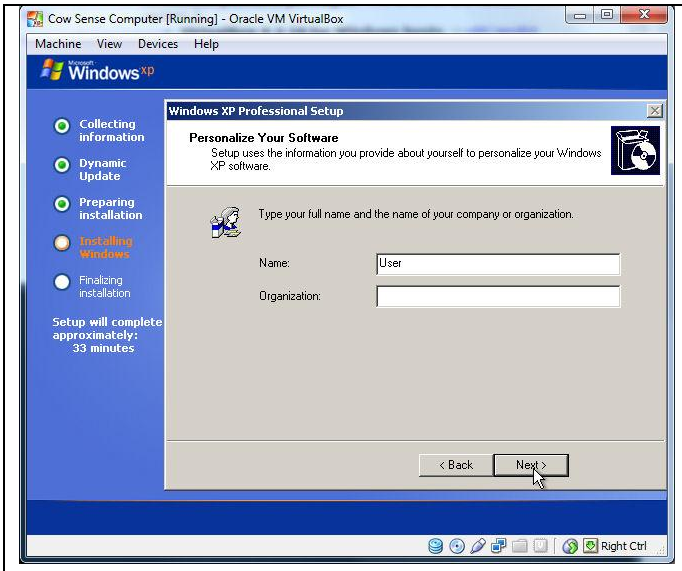
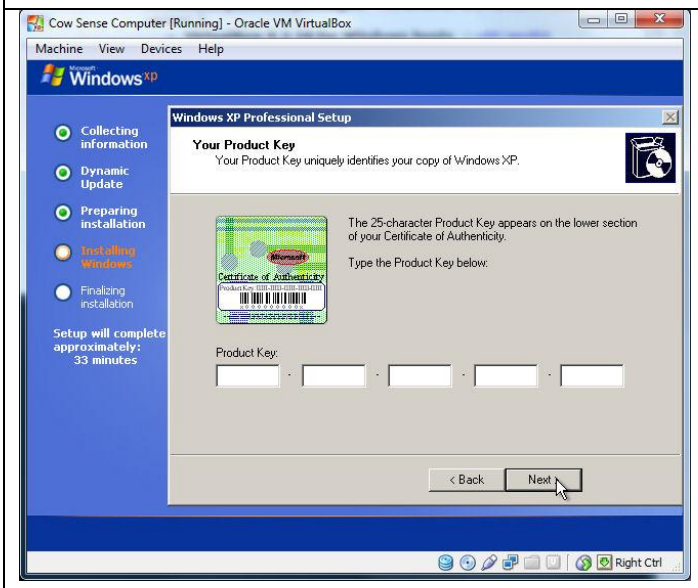
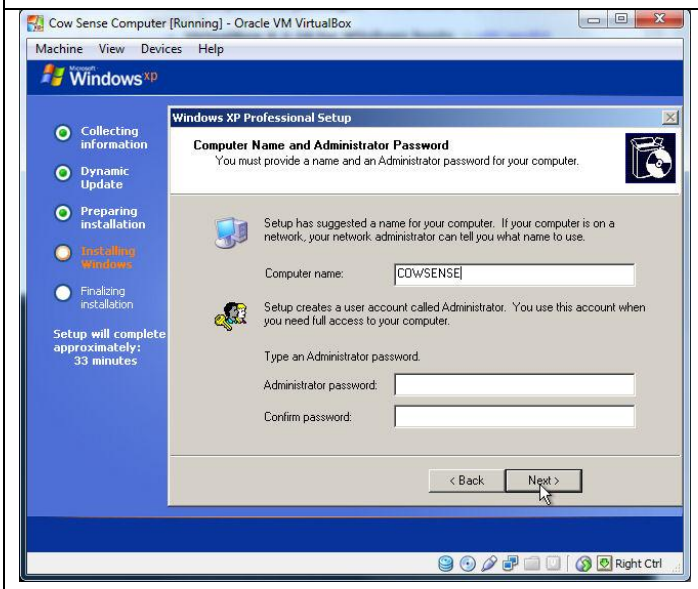
<td> 
</td>
<td>Your Virtual Machine is now ready to run and install the operating system. Click on its name (on the left) and click the green ‘Start’ arrow.</td>
</tr>
</table>

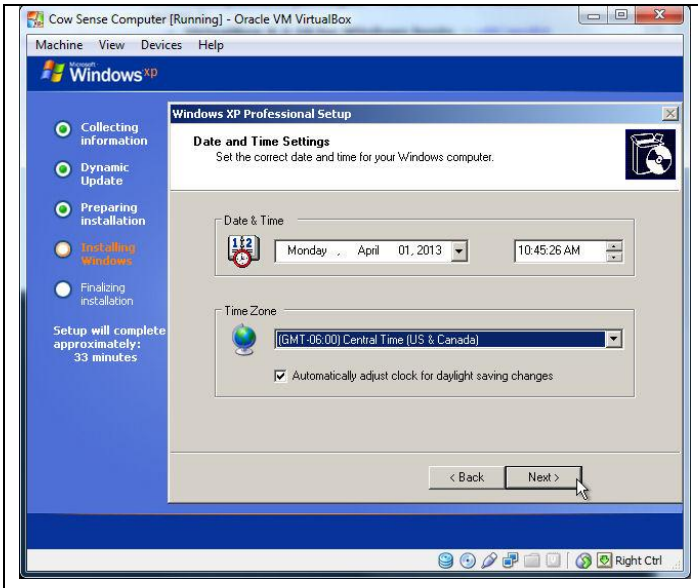
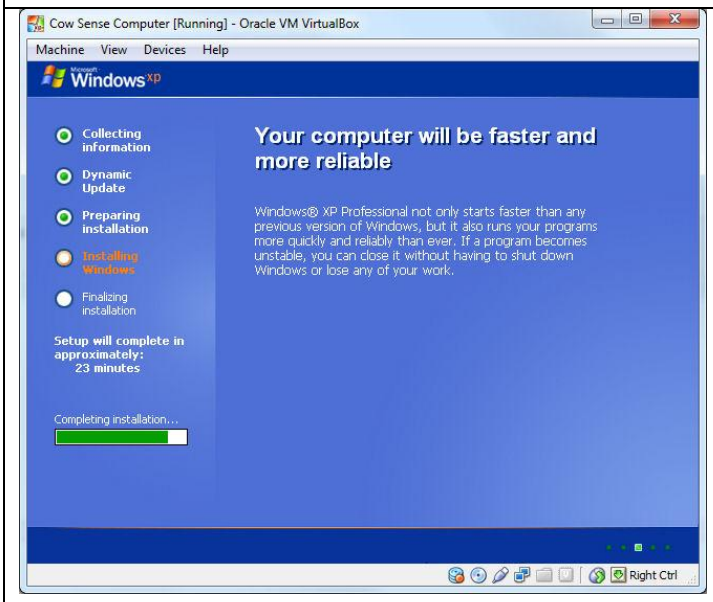
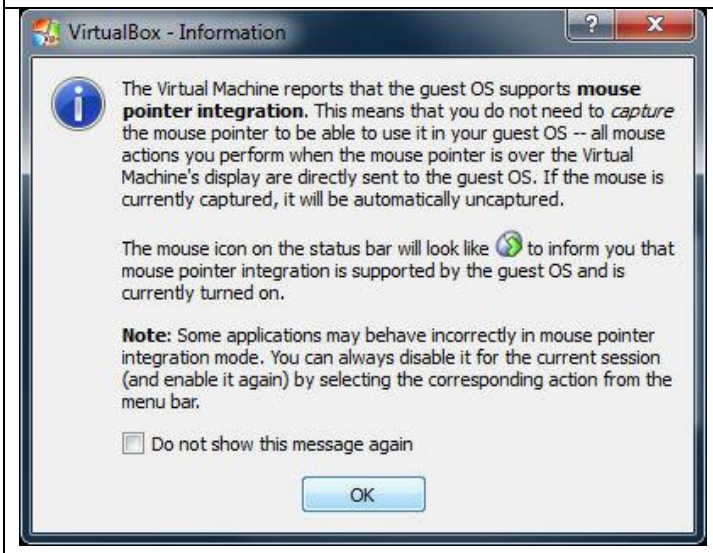
	Click 'Ok'.
	Insert the CD that contains your 32-bit operating system. Select the drive that contains the CD from the drop-down list and click 'Start'. You may also use an ISO disk image for installation.
	Click 'Ok' to begin installing the operating system. *NOTE: The screen shots of installing the operating system are for Windows XP. If you install Windows Vista or Windows 7 your process will look different.*
	Click 'Enter' to install.

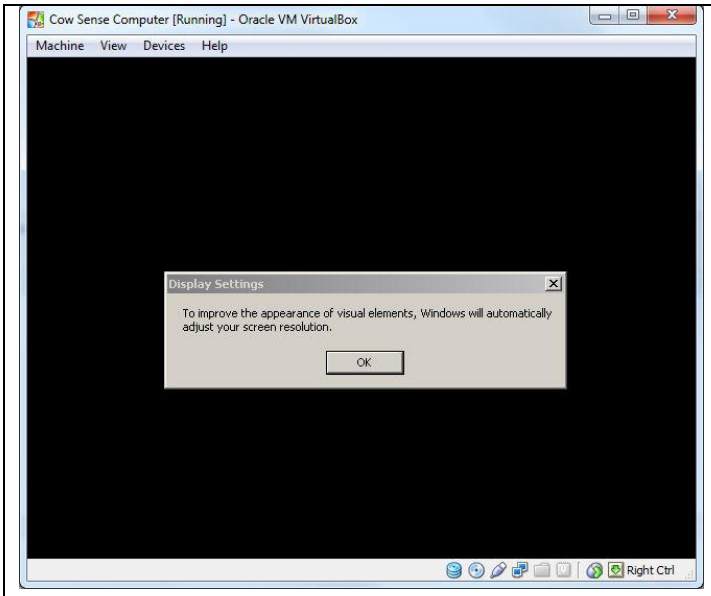
	Press F8.
	Select 'C: Partition 1' and click 'Enter'.
	Select 'Format the partition using the NTFS file system' and click 'Enter'

	Wait while the installation formats the drive.
	Wait while the installation copies files.
	Allow your computer to restart.

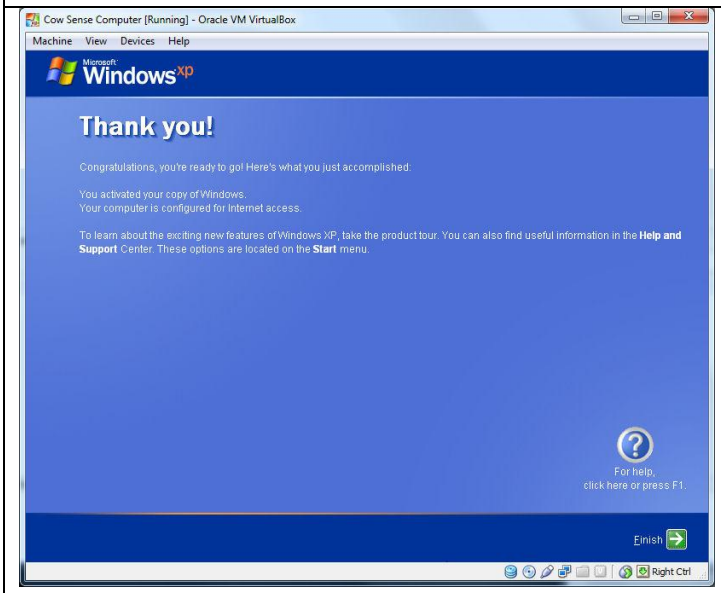
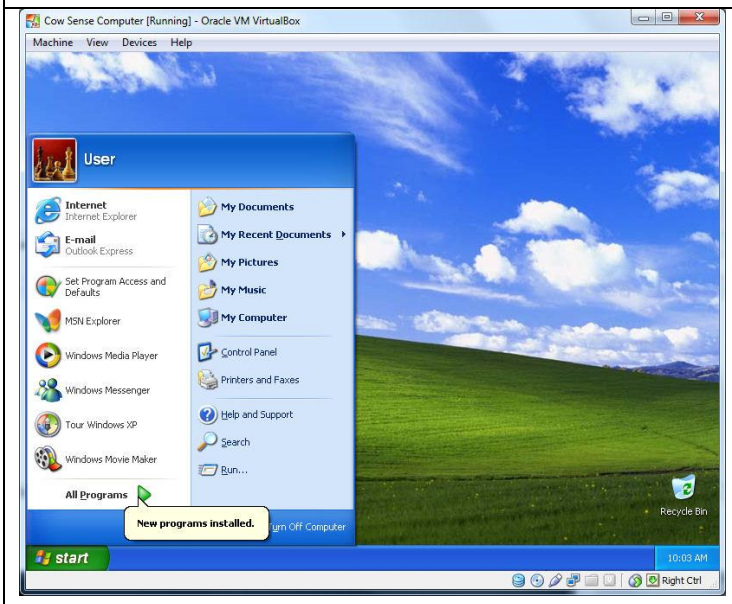
	Preliminary setup is complete and Windows installation begins.
	Windows installation continues.
	Customize your language options if necessary and click 'Next'.

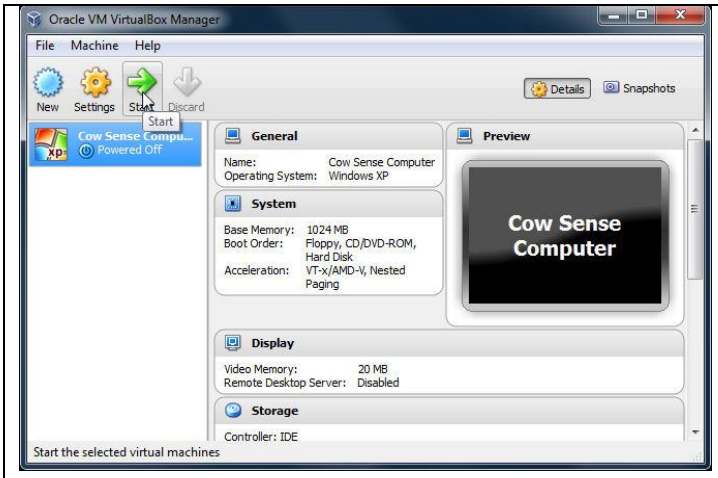
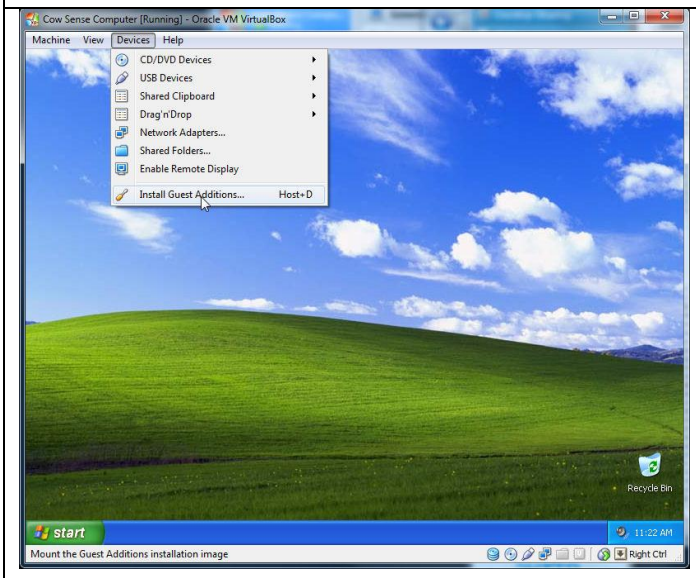
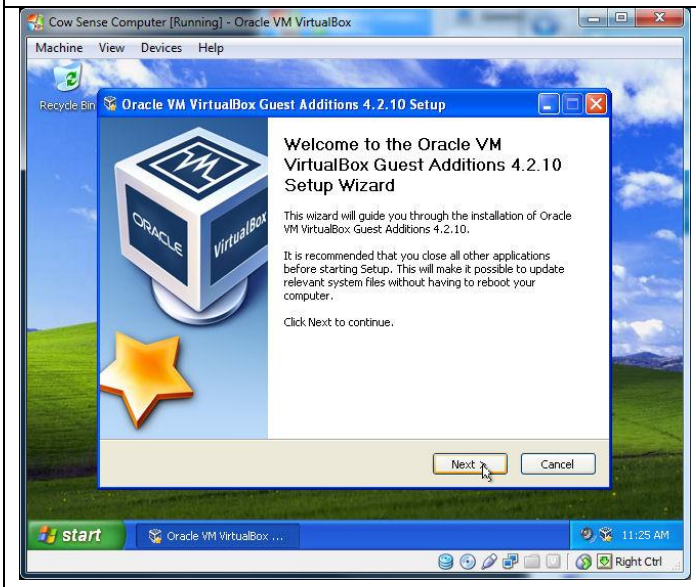
	Enter your Name and Organization (Organization is optional).
	Enter the product key for your operating system. Typically this will be found on your Certificate of Authenticity.
	Enter a password, if desired (we recommend leaving the password blank on a virtual computer) and click 'Next'.

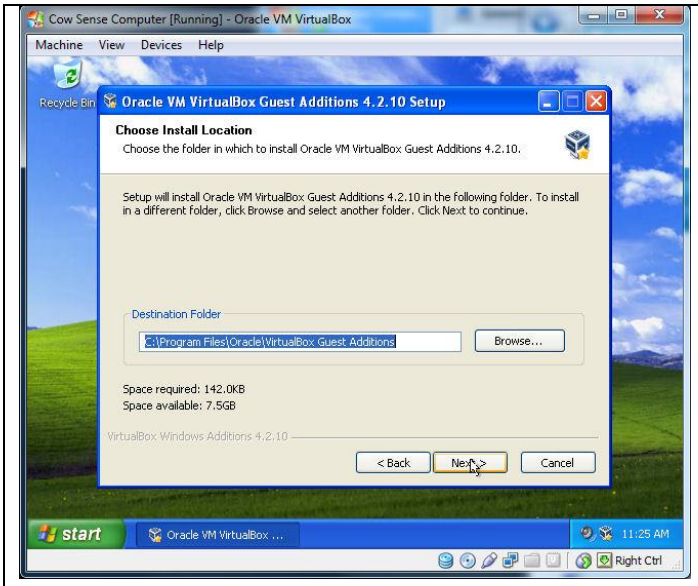
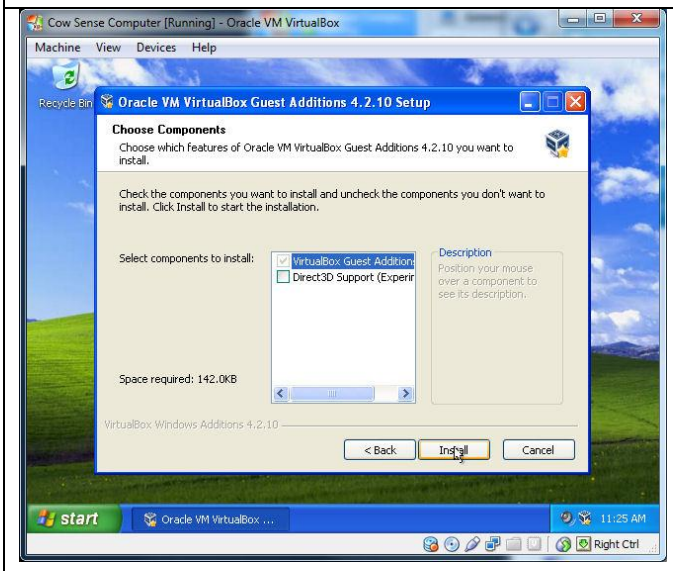
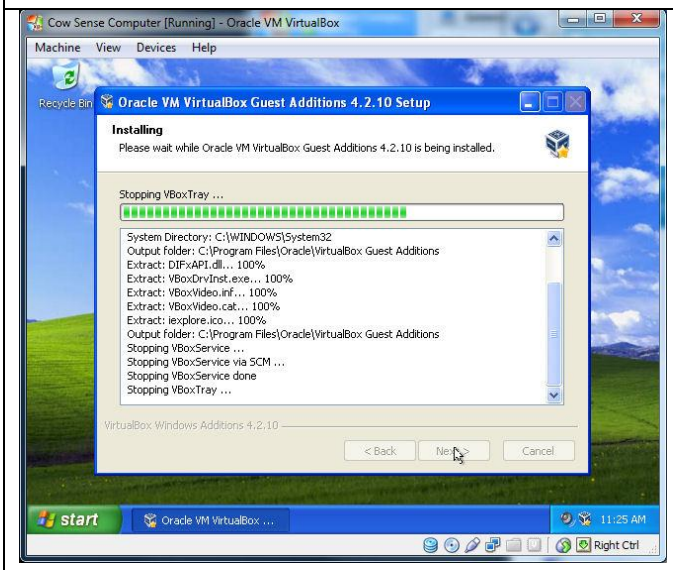
	Select the correct date and time and confirm your time zone. Click 'Next'.
	Windows setup continues.
	You may see prompts about mouse integration. Check "Do not show this message again" if you are comfortable with that. Click 'OK'.

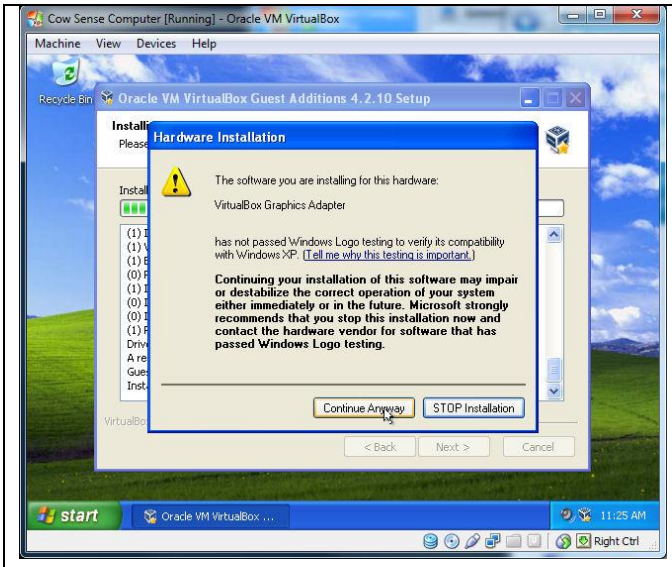
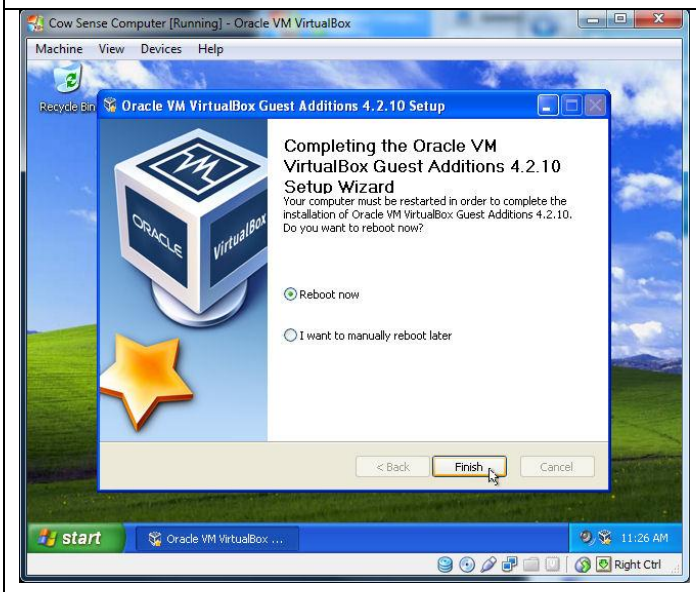
	Click 'OK'.
	Windows setup continues.
	Normally, your virtual computer will already connect to the Internet through the host, and you should not skip this step. Click 'Next'. If the virtual computer does not connect, click 'Skip'.

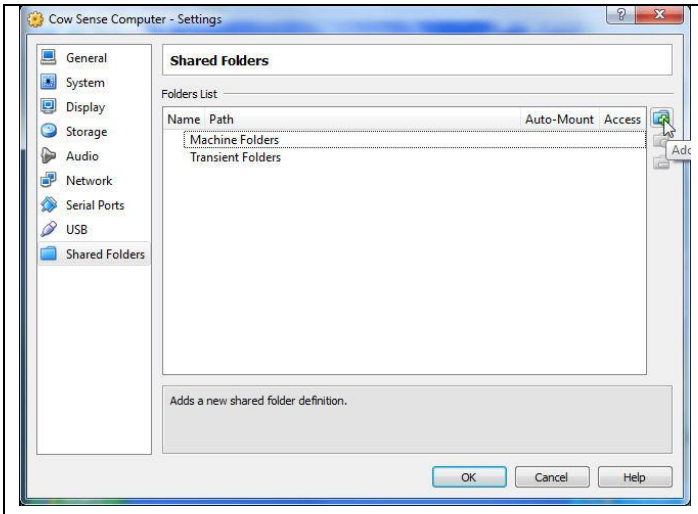
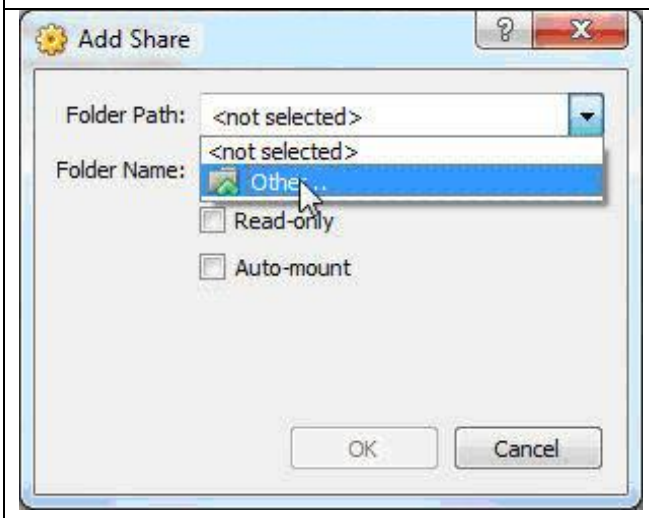
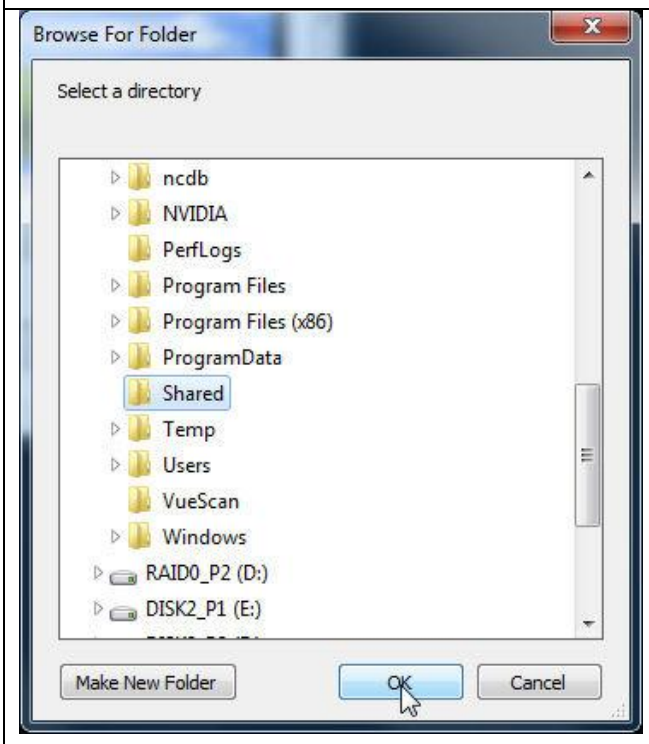
	Accept the default and click 'Next'.
	Select 'Yes' to activate Windows. Click 'Next'.
	Select "No, not at this time" and click 'Next'.

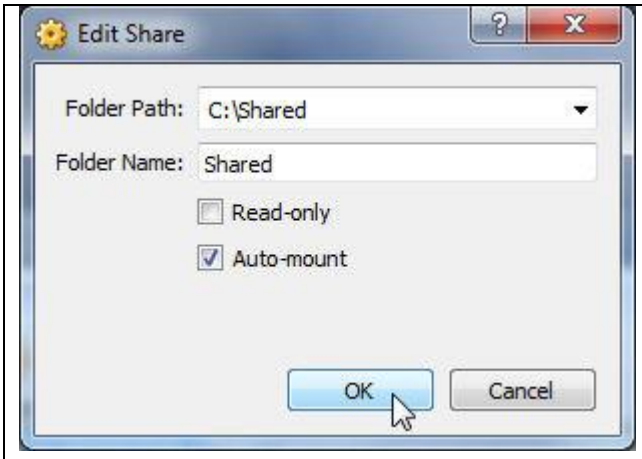
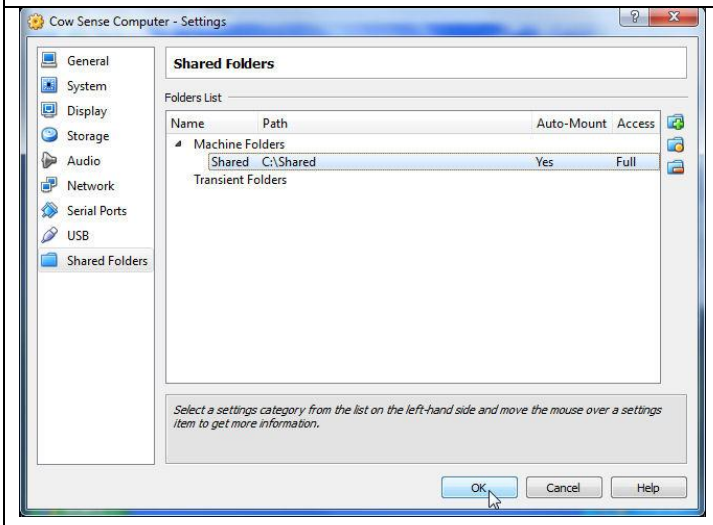
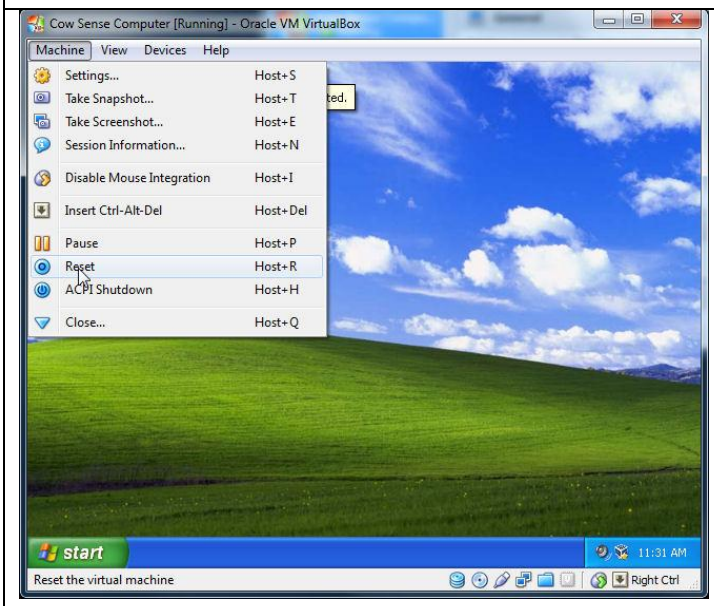
	Enter your name to create a new user and click 'Next'.
	Click 'Finish'.
	Your new virtual computer will open to the desktop. You are now ready to use the computer within VirtualBox. To shut down your virtual computer click Start >Turn Off Computer. This will return you to VirtualBox Manager.

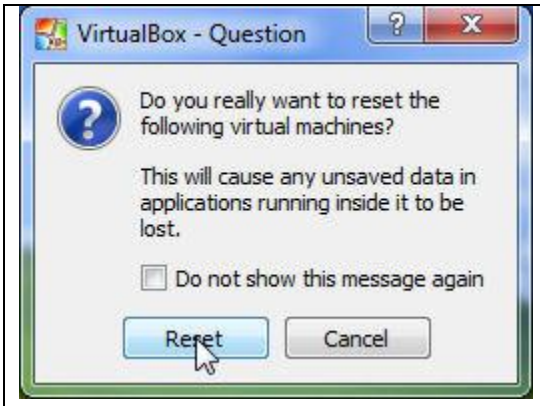
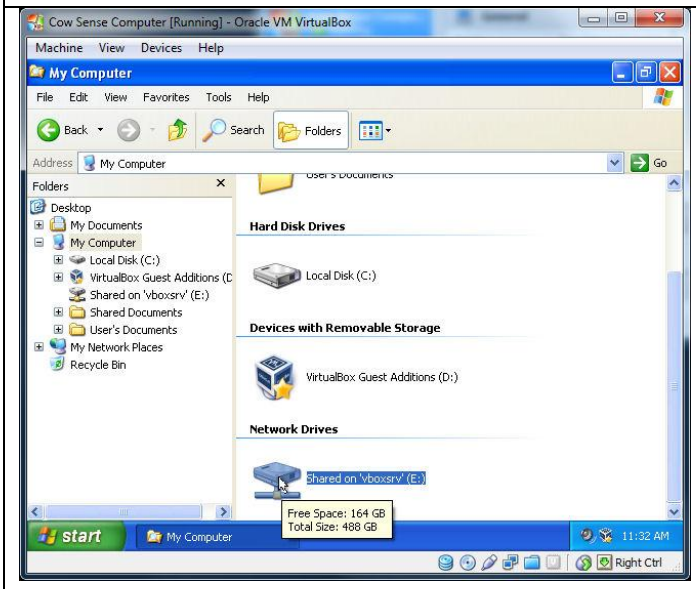
	To launch your virtual computer, open the 'Oracle VM VirtualBox' icon on your desktop or task bar. Select your virtual computer (on the left) and click the green 'Start' button.
	There are a few finishing touches to get full functionality from VirtualBox. From the top menu, click Devices>Install Guest Additions…' Guest Additions enhance input device, video, and network integration.
	Click 'Next'.

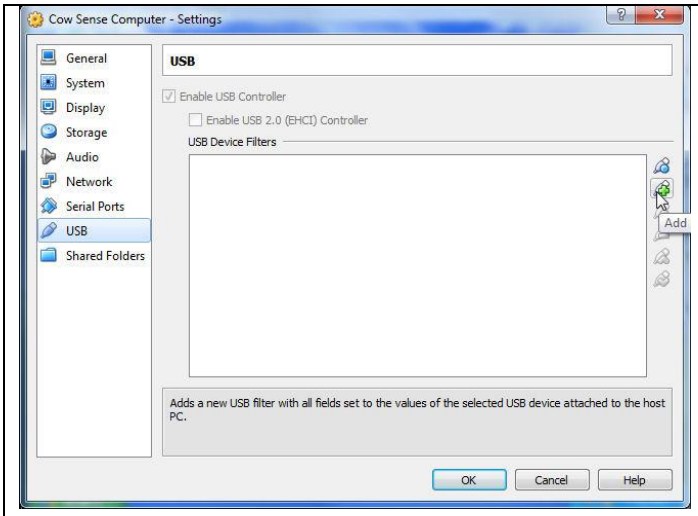
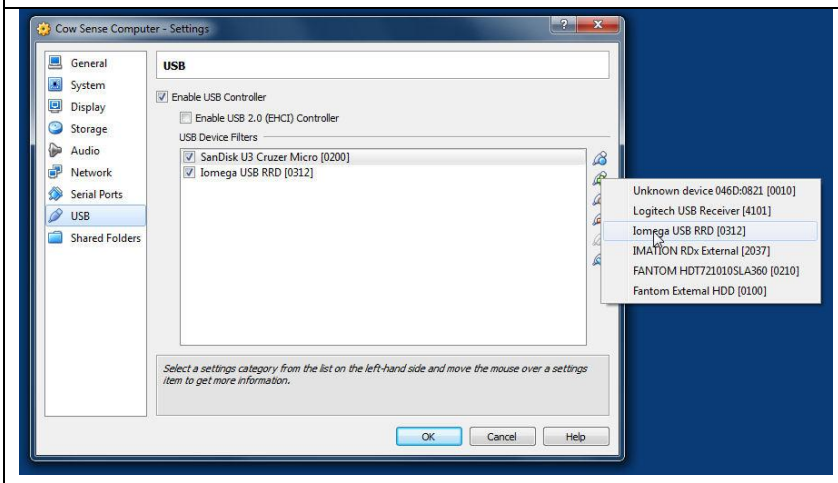
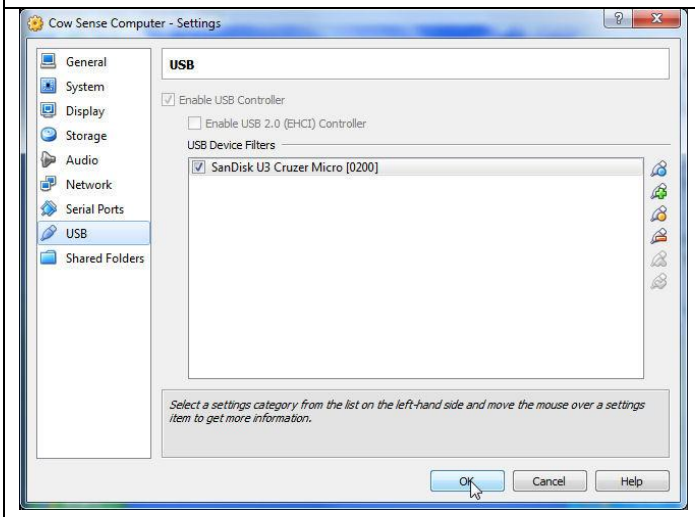
	Accept the default and click 'Next'.
	You do not need to check Direct 3D support. Just click 'Install'.
	Wait while the installer unpacks files.

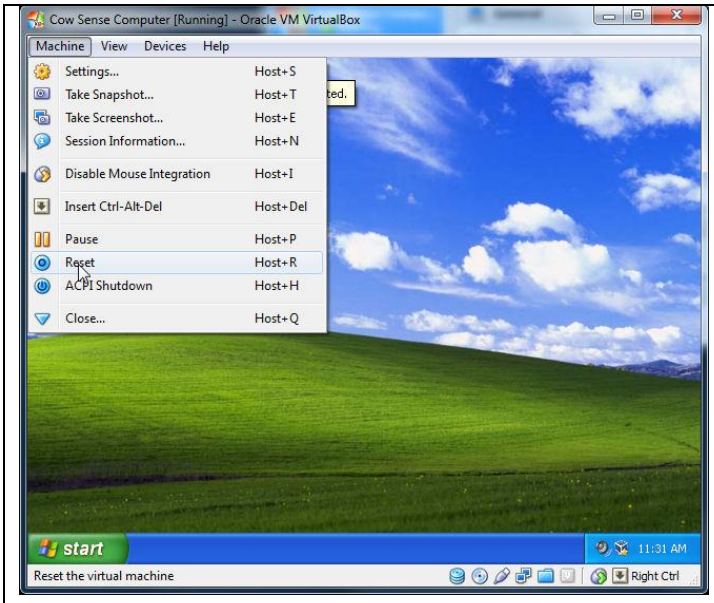
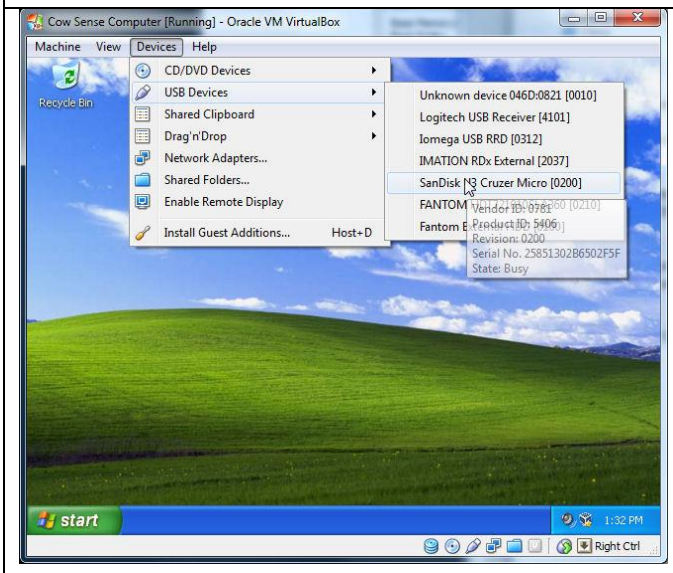
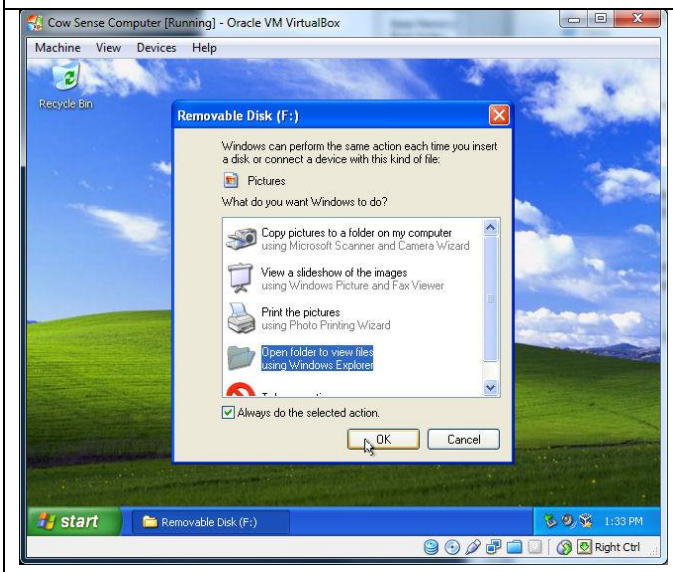
	Click 'Continue Anyway' on all hardware installation prompts.
	Click 'Finish'. Your Virtual Machine will reboot.
	You will want to pass files between your main and virtual computer, which is easily done with a shared folder. Click Devices > Shared Folders.

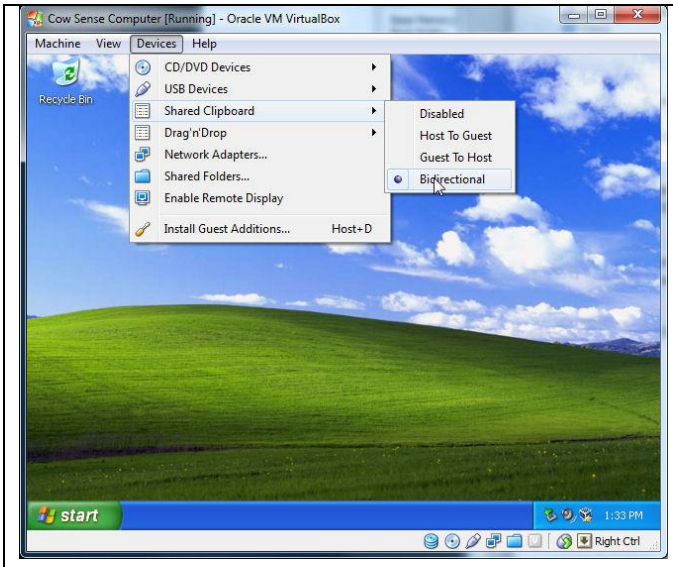
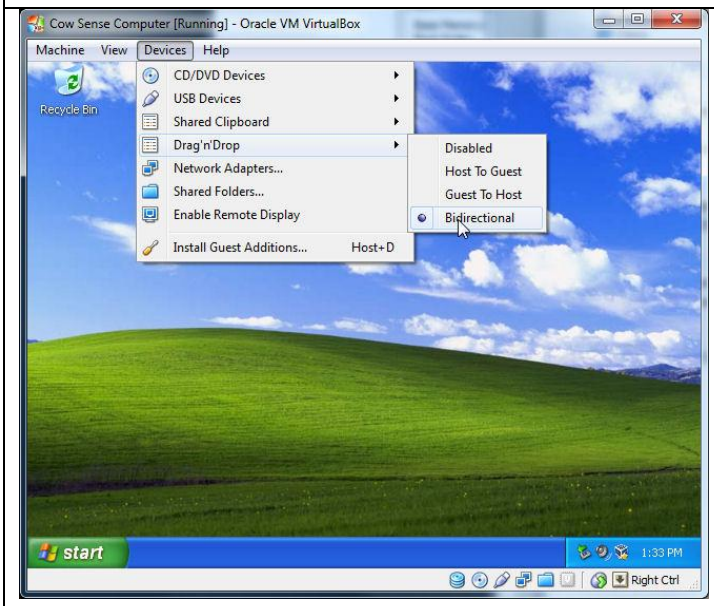
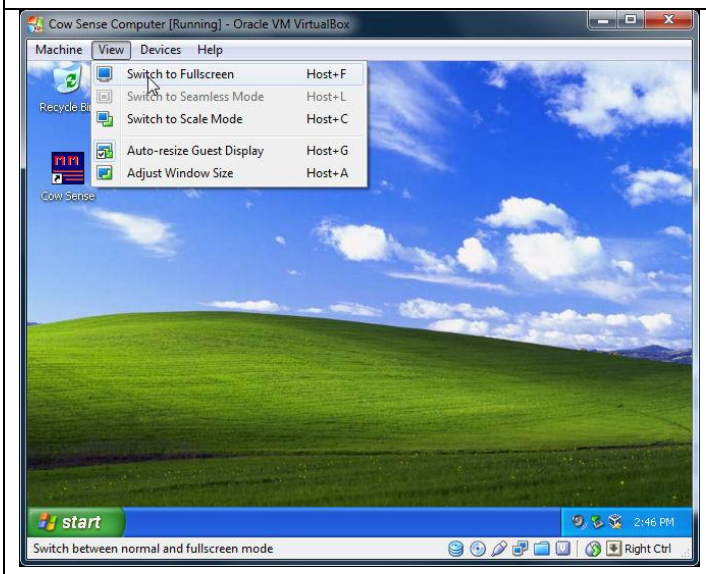
	Click on the blue folder icon on the upper right-side to add a shared folder.
	In the 'Add Share' box click the arrow to the right of 'Folder Path:' and click 'Other…'
	Browse to the folder you wish to share and click 'OK'.

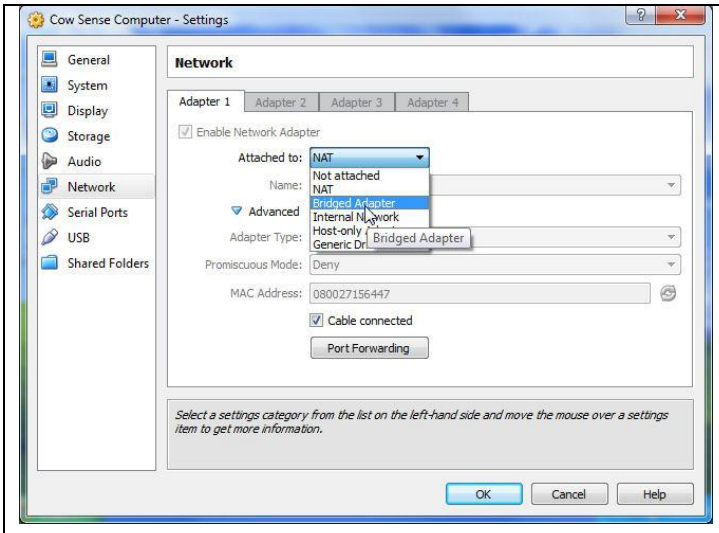
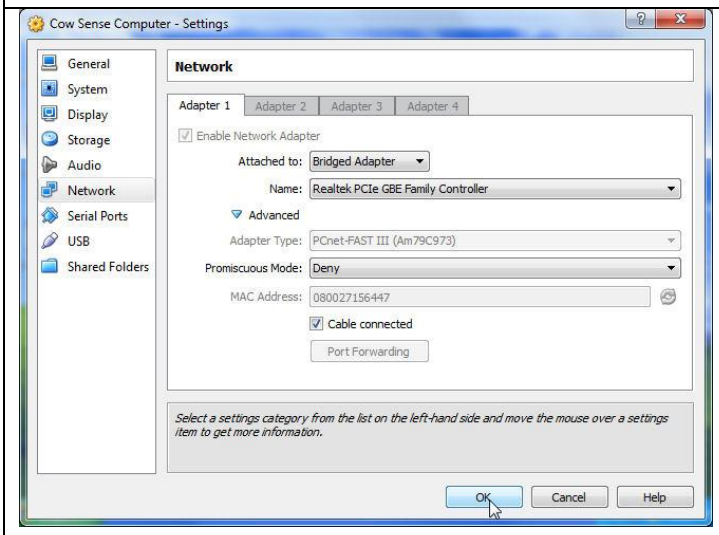
	Put a check-mark next to 'Auto-mount'. *Do not* check 'Read-only'. Click 'OK'.
	Click 'OK'.
	Restart the virtual computer using Machine > Reset. This will apply your new settings.

	Confirm and click 'Reset'.
	After resetting, confirm the shared folder appears under 'My Computer' as a network drive.
	To mount a USB drive go to Machine > Settings.

	Click 'USB' on the left. Plug in your USB device (if it is not already). Click the USB icon with the green plus sign on it (right side) to add your device.
	Select the device you want to use in the virtual computer.
	Click 'OK'. This process will make your USB device (flash drive, mobile device, etc.) available to the virtual computer.

	Restart the virtual computer using Machine > Reset. This will apply your new settings.
	Click on Devices>USB Devices>[Your Device] to mount the USB device.
	If the device is a flash drive, you will see a menu prompting you to open it to view the files and folders.

	Share the clipboard with the host operating system via the Devices menu.
	Enable Drag 'n Drop with the host operating system via the Devices menu.
	Select viewing options via the View menu.

	VirtualBox defaults to a NAT network connection. This is fine for most situations. For more advanced network capabilities (e.g. file sharing from the virtual computer), use a Bridged Adapter. Go Machine > Settings. Click on Network (on the left). Next to 'Attached to', select 'Bridged Adapter'.
	Click 'OK', then reset the virtual computer.