

Virtualization with VMware Workstation

Installing Windows XP Guest OS



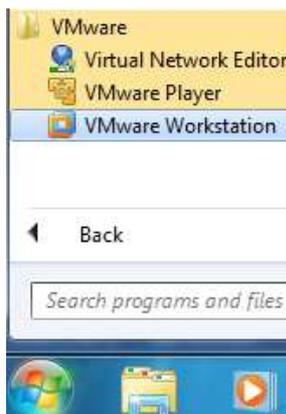
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This document will help you install **Windows XP** Guest Operating System under **Windows 7 32-bit** Host Operating System using **VMware Workstation** product. You would need a valid licence key of **Windows XP** in order to proceed.

Installing virtual operating system is very similar to installing an operating system on a physical PC / laptop. The only difference is that you are installing it in a virtualized environment of a Host Operating System where a particular virtualization product is mounted in order to create an environment for the system to host virtualized machines. So you would still need to have a separate licence for the Guest Operating System. For example, the following document described installing **Windows XP** Guest Operating System on a **Windows 7 32-bit** Host Operating System. Therefore, a valid licence is required for the Host Operating System which is installed on a physical machine, and another valid licence is also required for Guest Operating System which would be installed in a virtualized environment. Usually, the PC / laptop you have purchased would already come with an OEM licence of Windows 7 unless you are building your own machine from parts bought separately rather than buying a branded systems from Dell, Toshiba, etc. You would also require a valid licence of the virtualization product you will be using. We will be using 30 days evaluation licence of **VMware Workstation** product.

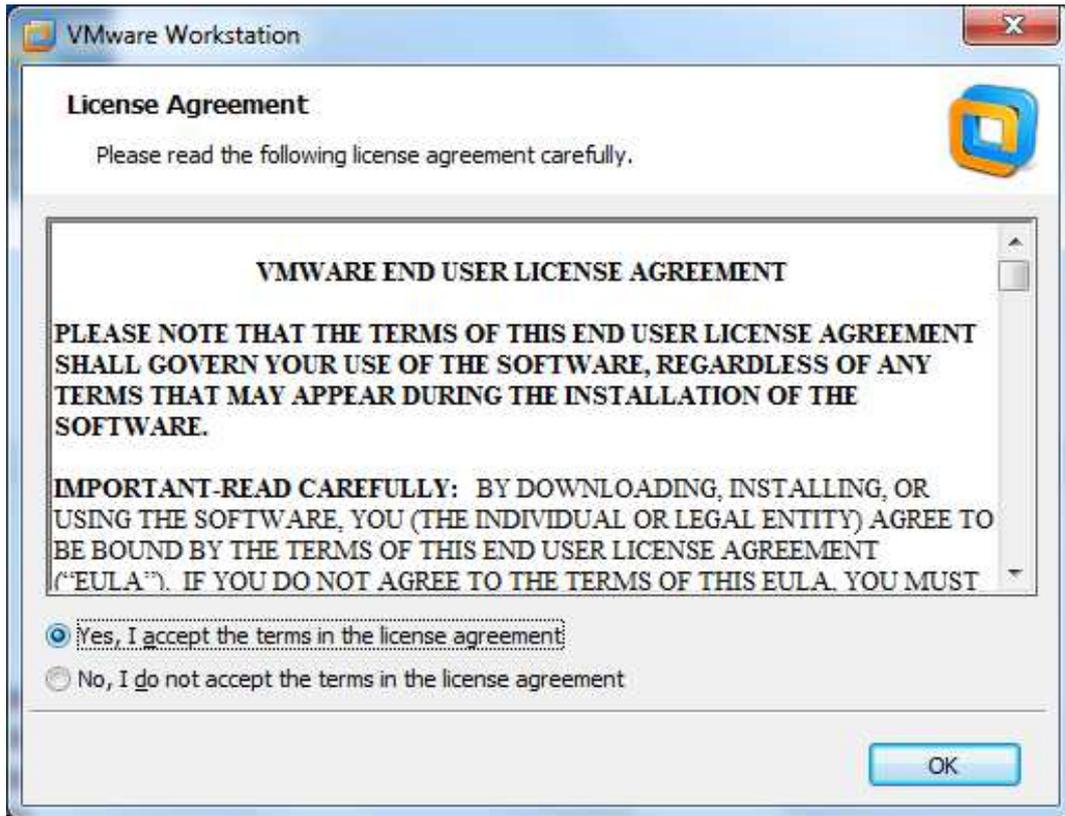
1. Please make sure that you have inserted the Windows XP installation CD in your CD / DVD Drive and note the CD / DVD Drive letter. In the following example, the CD / DVD drive letter is **E:**
2. Run “VMware Workstation” application by clicking Start -> All Programs -> VMware -> VMware Workstation as shown below:



Alternatively, you could also run “VMware Workstation” application by double-clicking on the desktop icon:

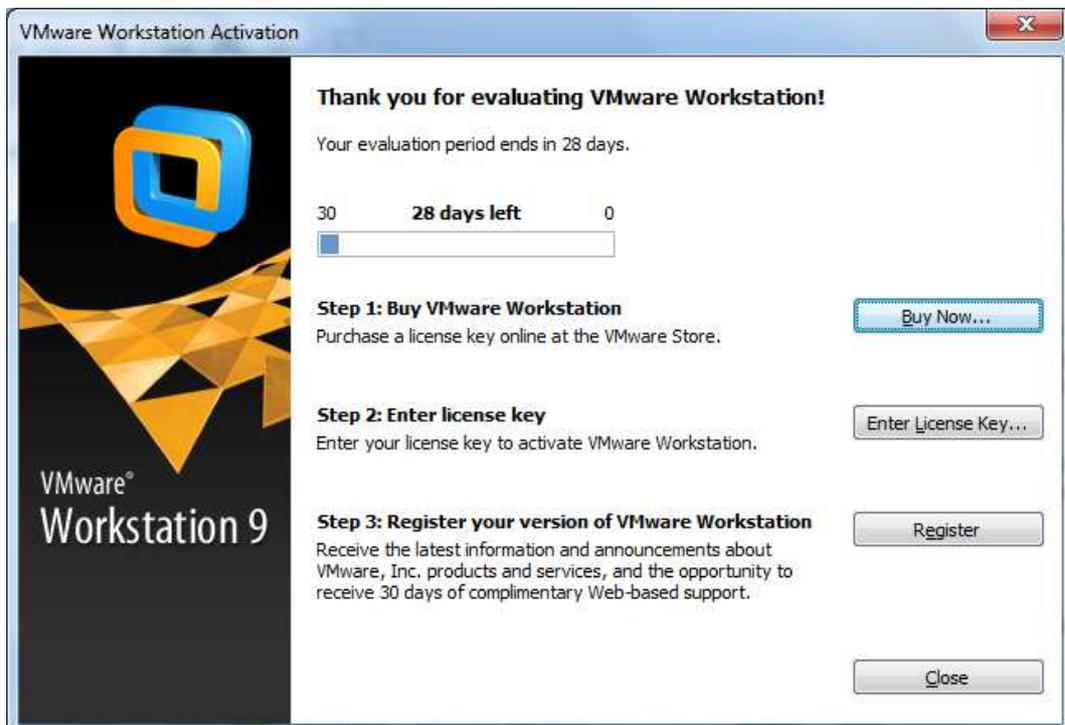


3. If you are running the application for the first time, you will be presented with the following:



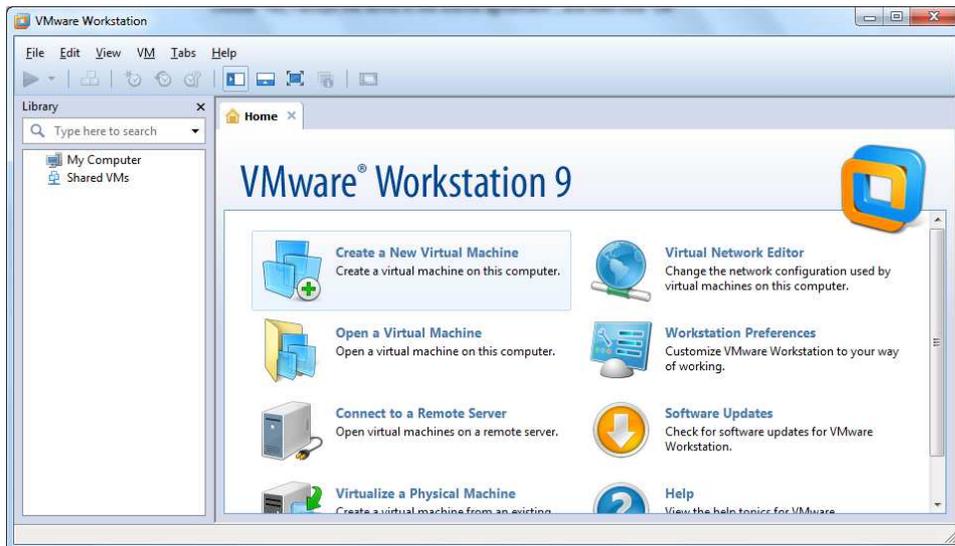
Select "Yes, I accept the terms in the licence agreement", and then click "OK"

4. Click "Close" when you are presented with the following:



If you have a full licence product and would like to register for update, you could do so. We will not be covering that option in our demonstration.

5. You will then be presented with the following and ready to begin the installation of the **Windows XP** Guest Operating System:



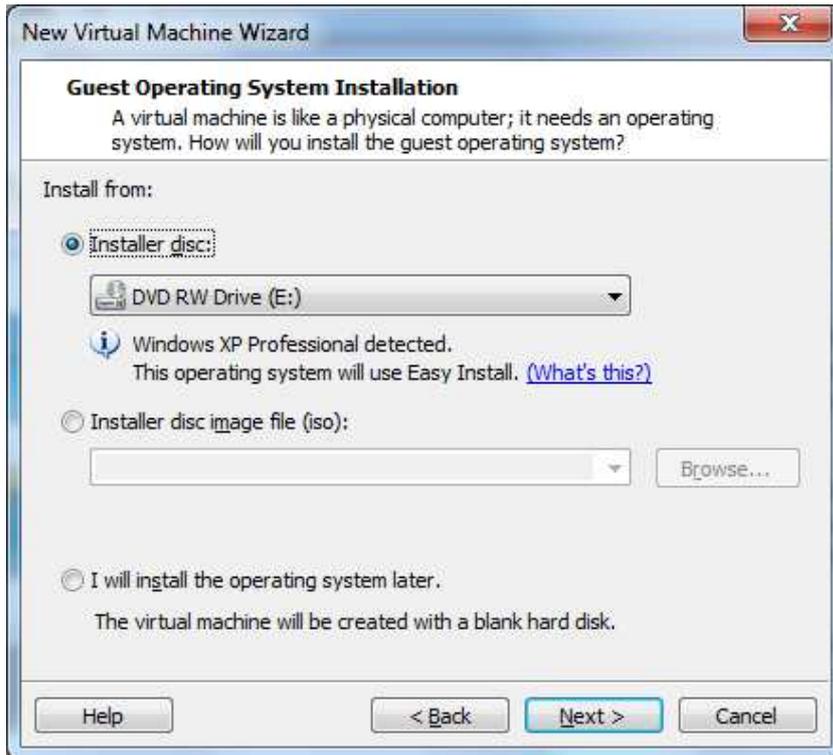
6. Click **“Create a New Virtual Machine”**



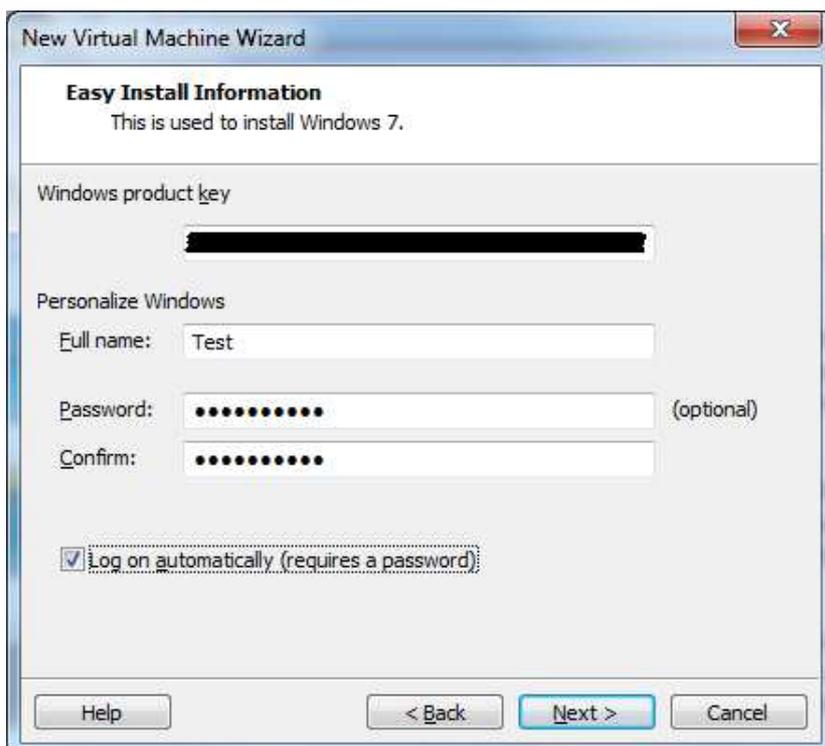
7. Select **“Typical (recommended)”** option, and then click **“Next >”** when you are presented with the following:



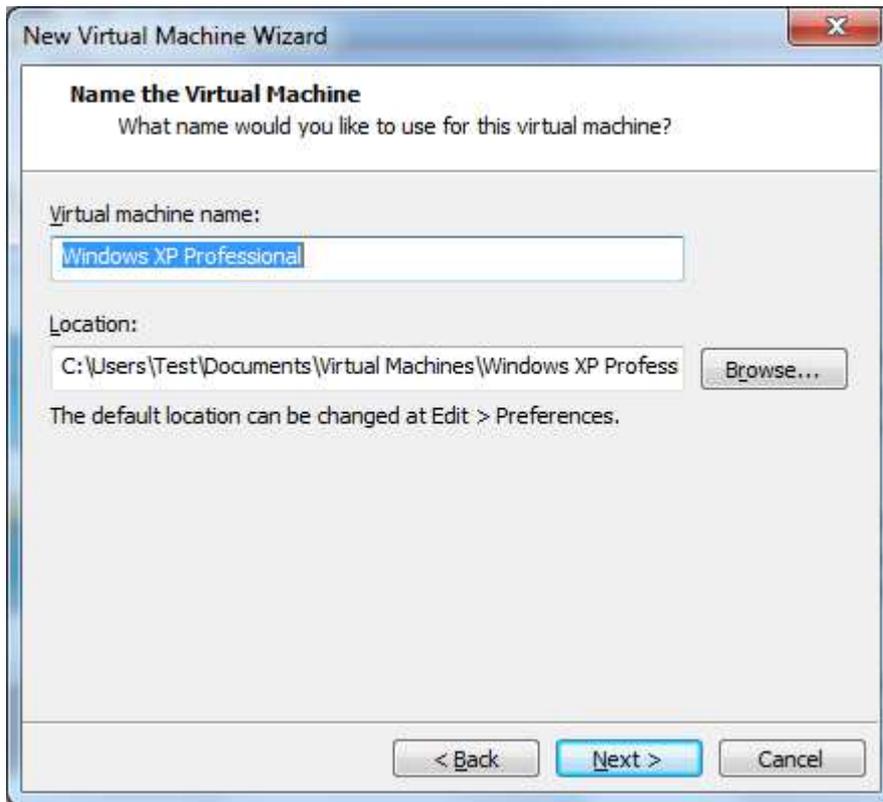
8. Click “**Next >**” when you are presented with the following:



9. Please enter a valid **Windows XP** licence key. Then enter a user name and a secure password of your choice. You could also select the option “**Log on automatically (requires a password)**” if you would like to avoid having to type in the password in order to log in and use your Guest Operating System. After you have completed all the information required, click “**Next >**” when you are presented with the following:



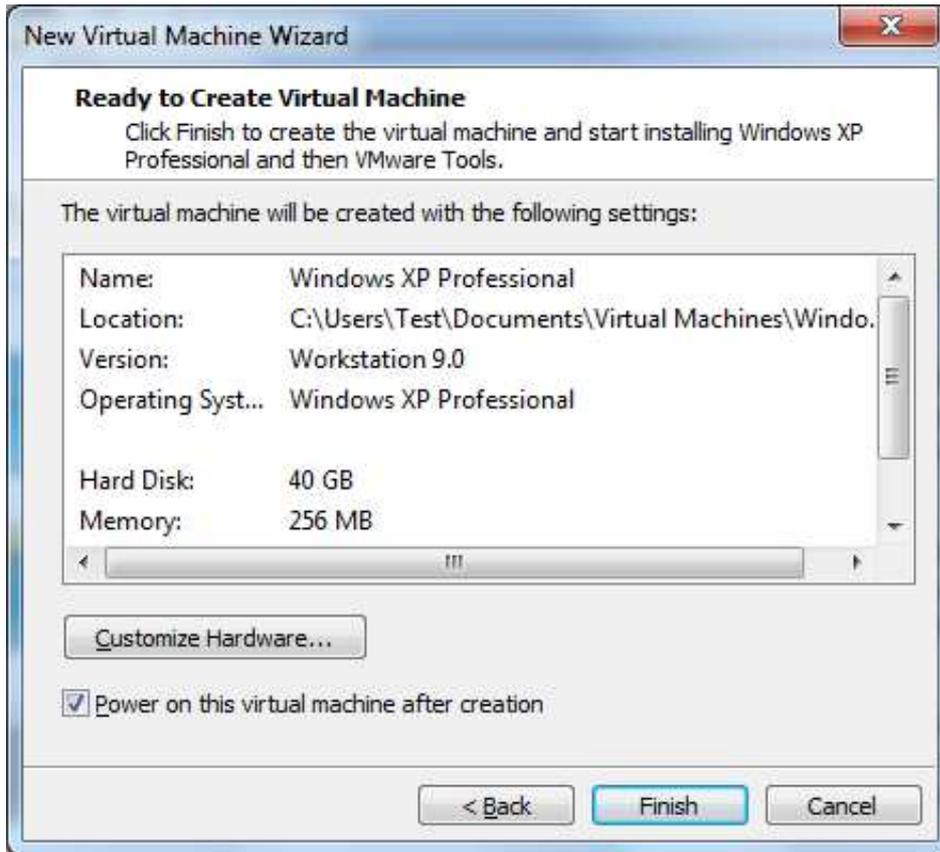
10. Give the name of the virtual machine to be created and the location where it is going to reside on your PC / laptop, then click “**N**ext >” when you are presented with the following:



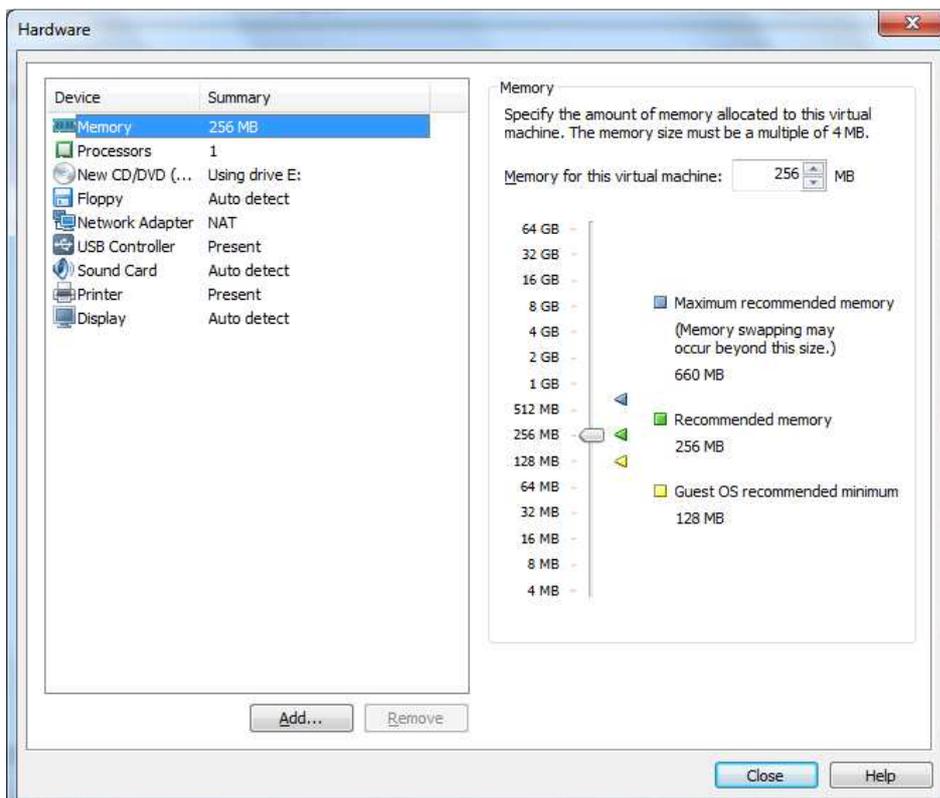
11. Select the option “**S**tore virtual disk as a single file”, and then click “**N**ext >” when you are presented with the following:



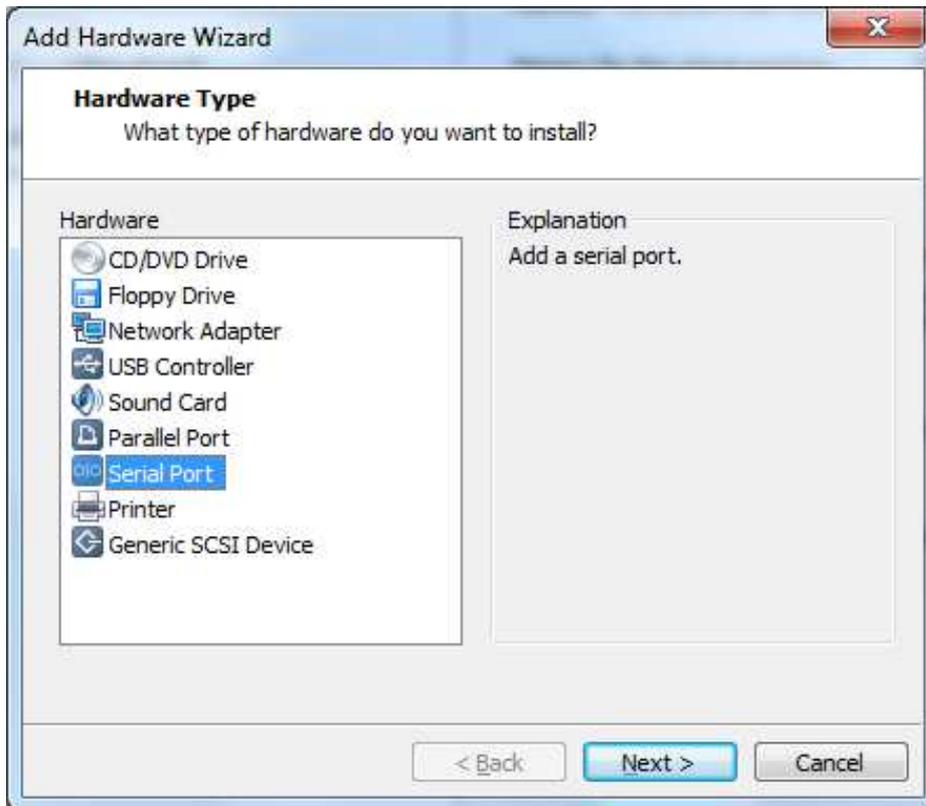
12. Click “**Customize Hardware...**” when you are presented with the following:



13. The purpose of this demonstration is to virtualize **Windows XP** so that it would give us legacy resources. Therefore, click “**Add...**” when you are presented with the following:



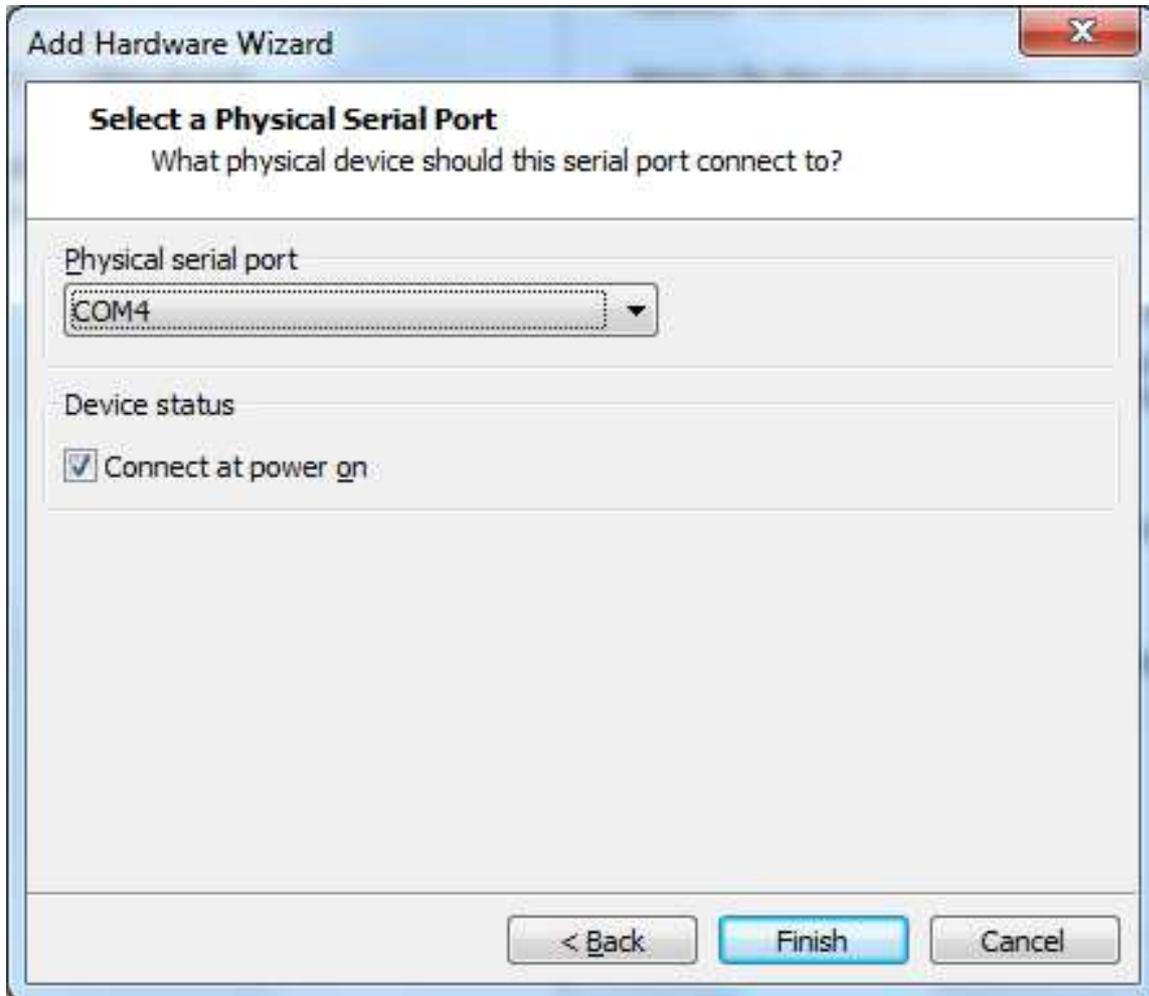
- Under the section “**Hardware**”, select and highlight “**Serial Port**”, and then click “**Next >**” when you are presented with the following:



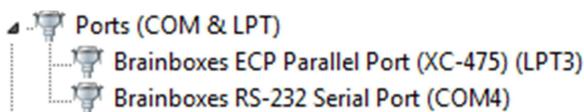
- Select the option “**Use physical serial port on the host**”, and then click “**Next >**” when you are presented with the following:



16. Select the serial port of the add-in / add-on card installed in your Host Operating System from the “**Physical serial port**” drop down list, select the option “**Connect at power on**”, then click “**Finish**” when you are presented with the following:

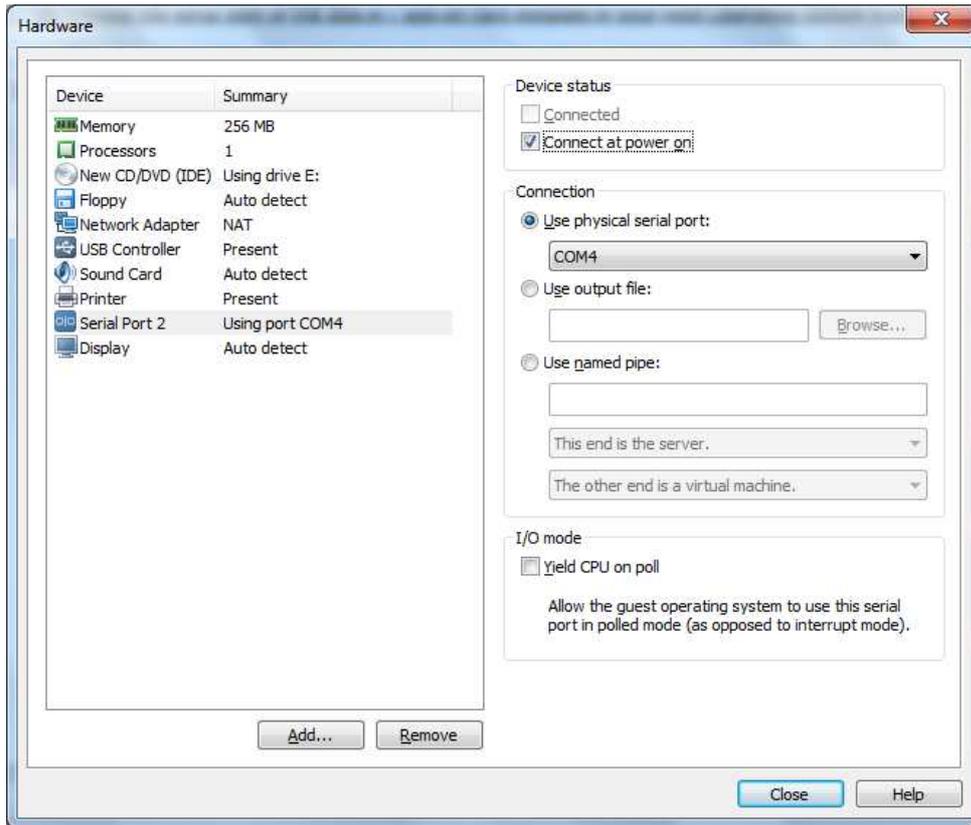


Please note that for this demonstration, the Host Operating System has an ExpressCard product **XC-475** installed with one Serial Port which is loaded as **COM4**, and one Parallel Port which is loaded as **LPT3**. They are installed as “**COM4**” and “**LPT3**” in my machine as shown below:

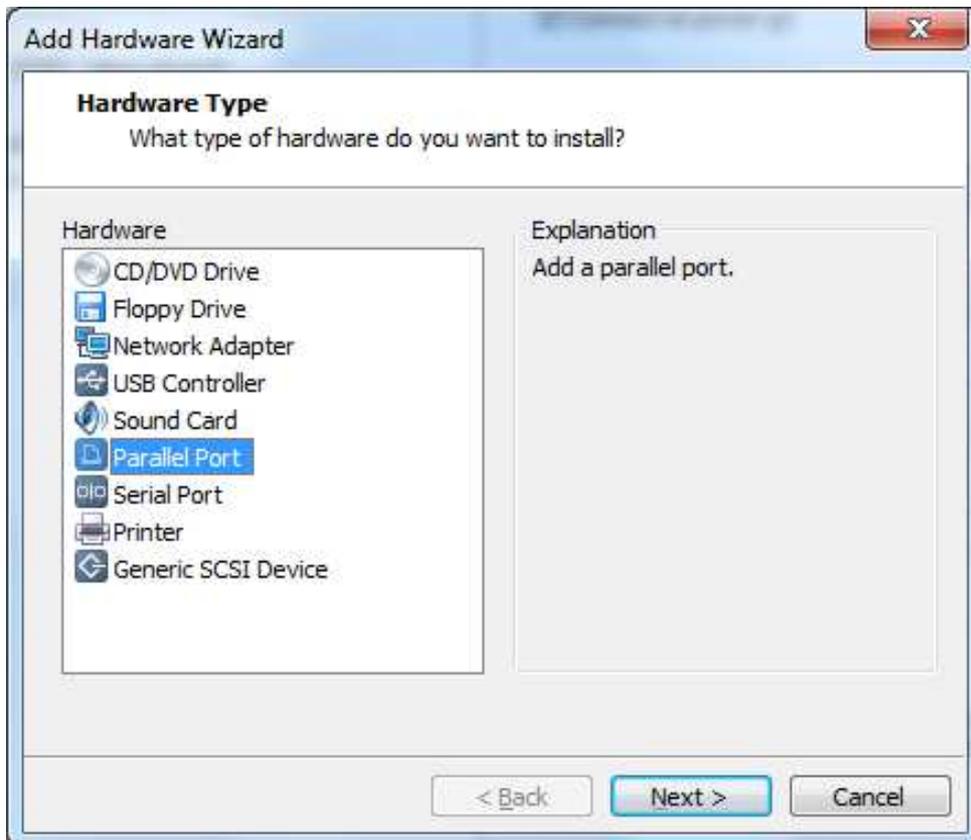


You might have a different COM Port label **COM3**, **COM4** and so on. Please select the correct COM Port label to map accordingly by checking the “**Ports (COM & LPT)**” section under **Device Manager**. For example, if you have installed the Serial Port of **XC-475** as **COM5** on your machine, you will have to select “**COM5**” from “**Physical serial port**” drop-down list.

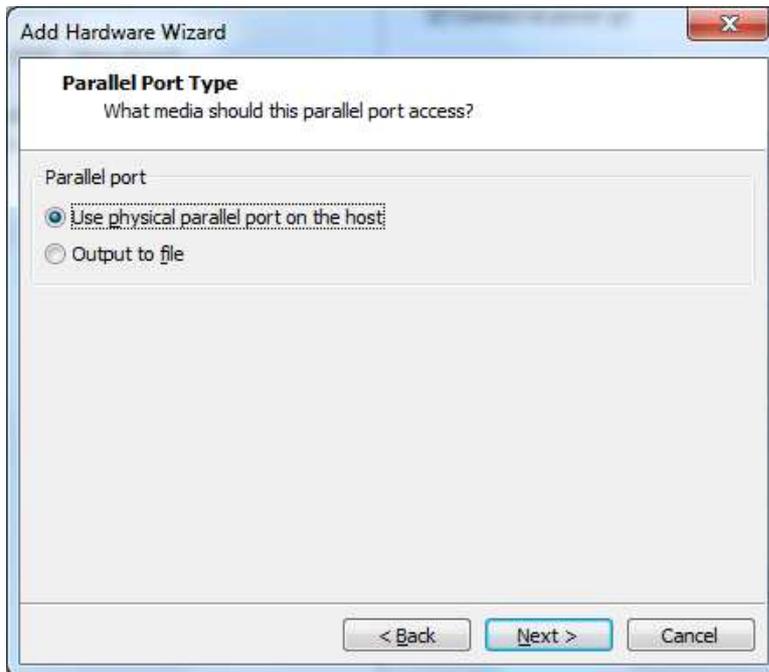
17. Click “Add...” when you’re presented with the following:



18. Under the section “Hardware”, select and highlight on “Parallel Port” and then click “Next >” when you are presented with the following:



19. Select the option “Use physical parallel port on the host”, and click “**Next >**” when you are presented with the following:

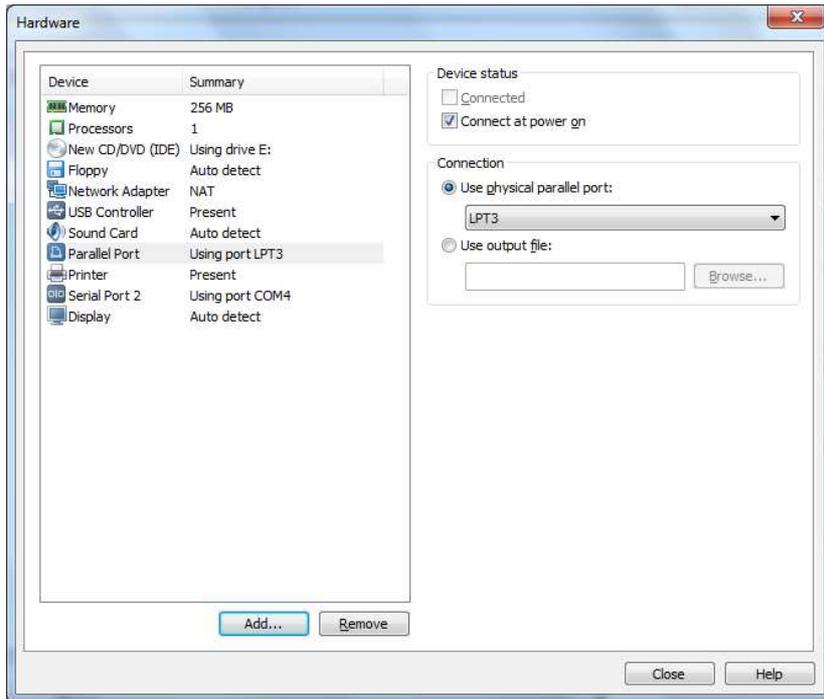


20. Select the parallel port of the add-in / add-on card installed in your Host Operating System from the “**Physical parallel port**” drop down list, select the option “**Connect at power on**”, then click “Finish” when you are presented with the following:



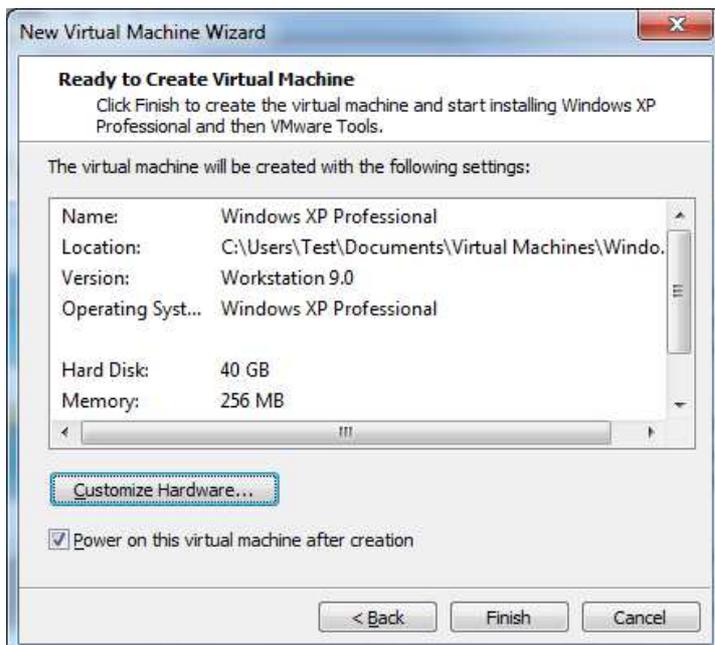
You might have a different LPT Port label **LPT4**, **LPT5** and so on. Please select the correct LPT Port label to map accordingly by checking the “**Ports (COM & LPT)**” section under **Device Manager** as described in **Step 16**. For example, if you have installed the Serial Port of **XC-475** as **LPT4** on your machine, you will have to select “**LPT4**” from “**Physical parallel port**” drop-down list.

21. Click “Close” when you are presented with the following:

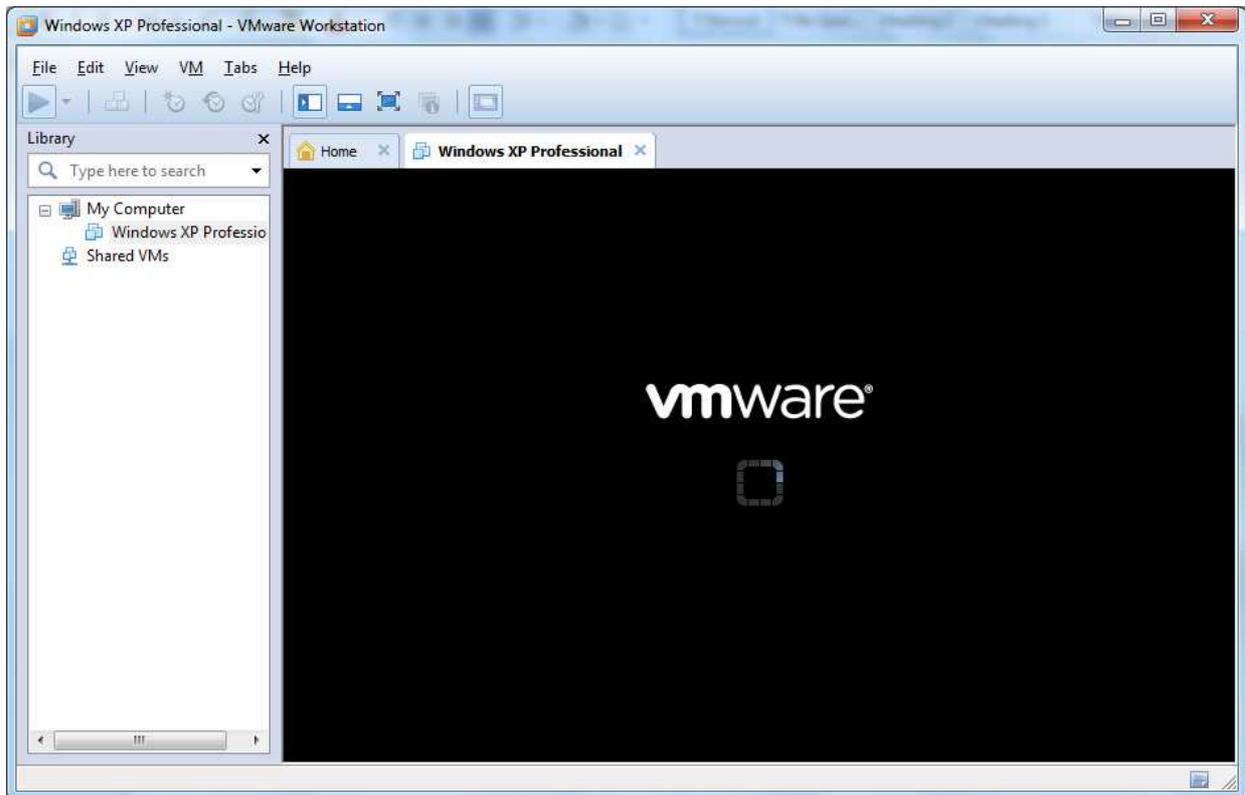


22. Please note that the label “Serial Port 2” under the “Device” column indicates that you would have to use “COM2” in the Guest Operating System in order to access the add-in / add-on serial port “COM4” of the Host Operating System. Remember to use “COM2” when you are running your own application inside the Guest Operating System. If what you see on Step 21 says “Serial Port 1”, then you would have to use “COM1”, for “Serial Port 3” use “COM3”, and for “Serial Port 4” use “COM4” inside the virtual machine and so on.

23. Click “Finish” when you are presented with the following:



24. **VMware Workstation** application will start the **Windows XP** Guest Operating System installation process, and you will be presented with the following:

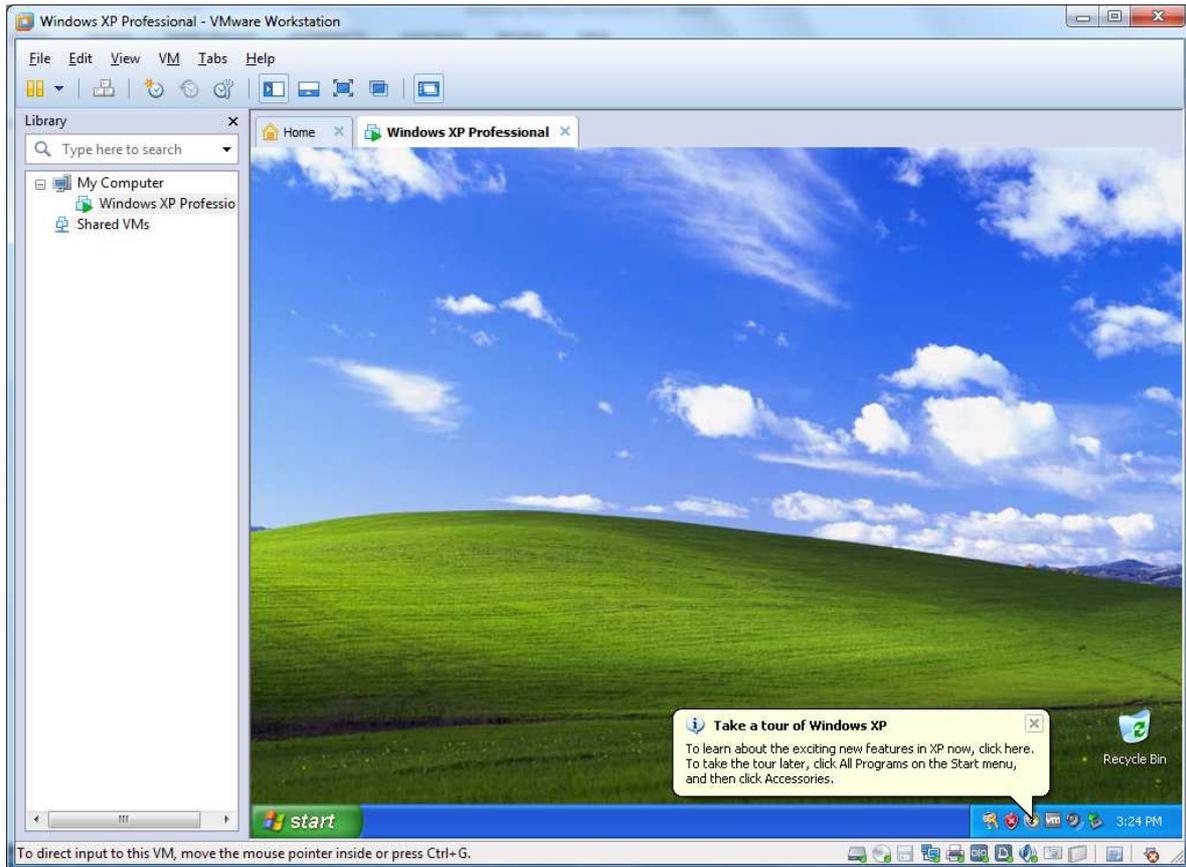


Please wait patiently for the whole installation process to finish as this could take a while depending on the performance of your PC / laptop. What you see will be different from the screen shot shown above as the installation of the Guest Operating System progresses through different stages.

25. Please click **“OK”** if you are presented with something similar to the following and also select the option **“Do not show this hint again”** so you will not be prompted again about **Removable Devices** which are plugged in to your PC / laptop:

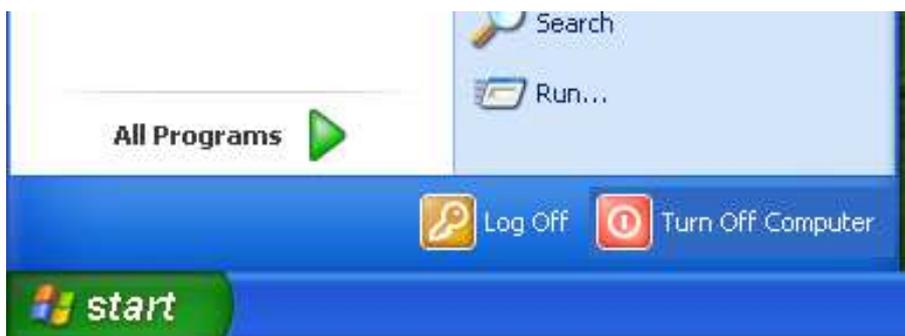


26. Finally, you would be presented with the following after the end of the long installation process:



27. Next, we will discuss how to start and shutdown the Windows XP Guest Operating System.

28. In order to shut down the Guest Operating System, the user could press “**Start -> Turn Off Computer**” inside the **Windows XP** Guest Operating System as shown below:



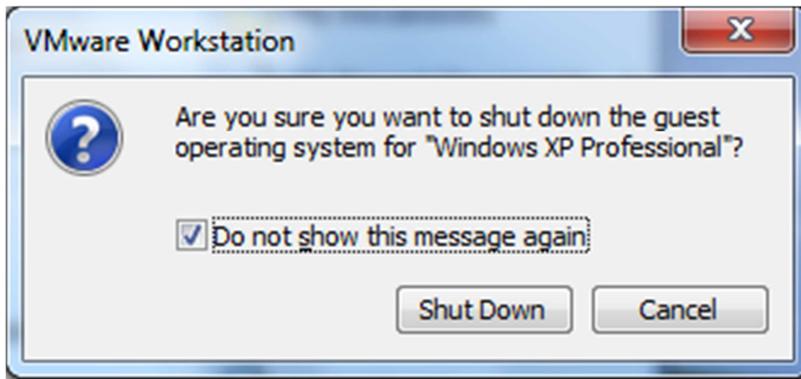
29. Alternatively, the user could also click “**VM -> Power -> Shut Down Guest**” option as shown in the following to shut down the “**Windows XP**” Guest Operating System:



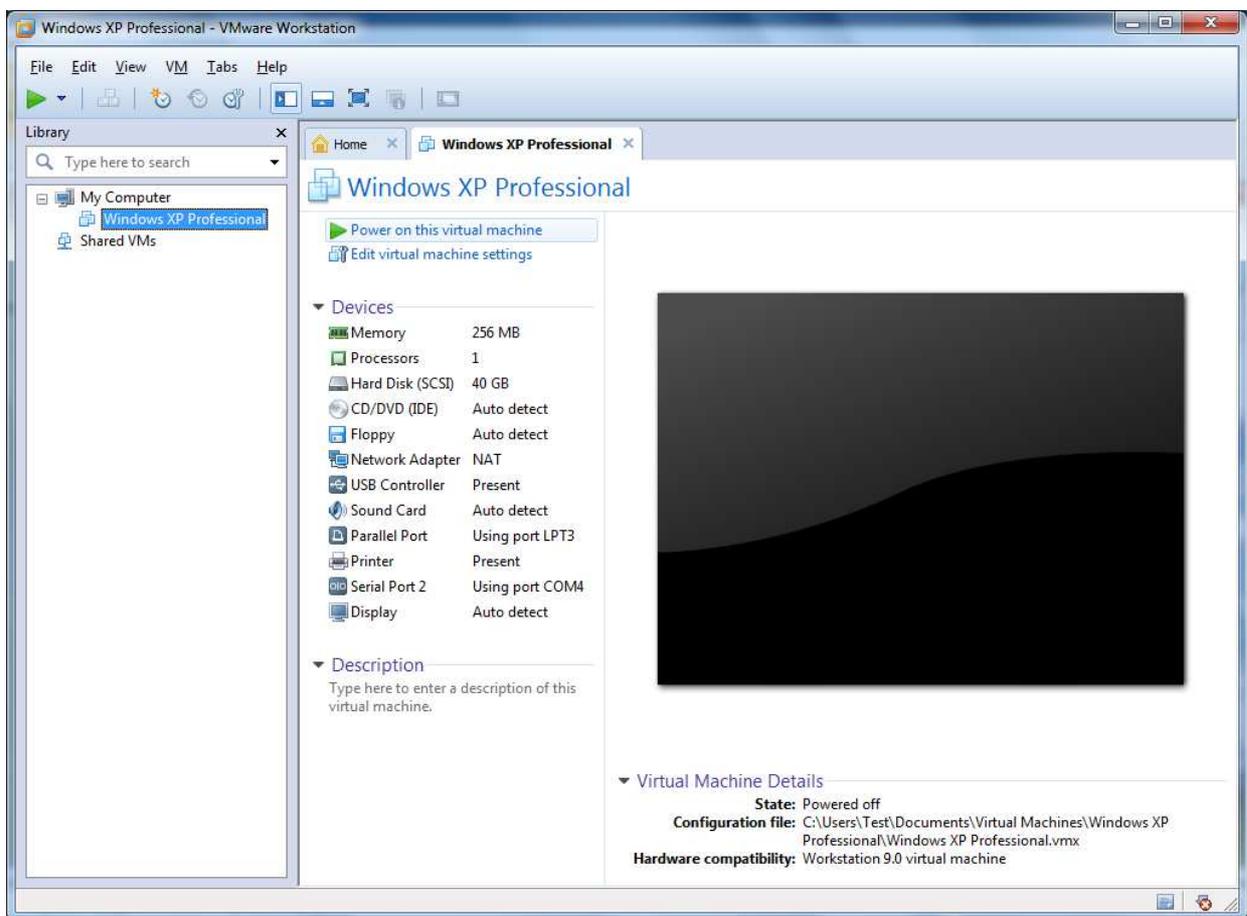
Click “**Shut Down**” when you are presented with the following:



Select the option “**Do not show this message again**” if you do not want to be prompt again to confirm the shutdown process of the **Windows XP** Guest Operating System:



30. To start **Windows XP** Guest Operating System, select and highlight on the virtual machine name on the left, and then click "**Power on this virtual machine**" as shown below:



Version History

| Version | Date | Author | Checked By | Comments |
|---------|------------|--------------|------------|----------|
| 1 | 12/06/2013 | Seng Seng Du | R&D | |