CLASSROOM SOFTWARE SETUP INSTRUCTIONS
SPRING 2011

Hardware and Software Requirements

The host computers can be laptops or desktops so long as they meet our system requirements:

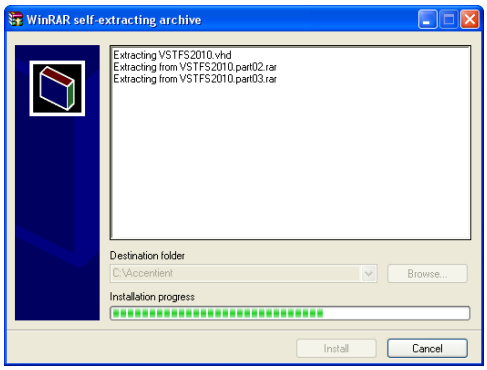
- Pentium IV 2.4+ GHz
- 30+ GB free hard disk space (7200+ RPM ideal)
- **3+ GB RAM** (VM image must be assigned at least 2048K RAM)
- USB 2.0 and/or DVD player (used for loading VM image)
- Network adapter (802.11g recommended, Ethernet preferred over Wi-Fi)
- Operating systems: XP, Vista, Windows 7 (server OS's will work but consume more resources)
- Microsoft Virtual PC 2007 SP1, Virtual PC for Windows 7, or Hyper-V (separate instructions are below)

Downloading Microsoft Virtual PC

You can download Virtual PC 2007 SP1 for free from http://bit.ly/cw28sv. This is the version you would use with Windows XP, 2003 Server, and Vista computers or Windows 7 computers that don't support hardware virtualization. You can download Virtual PC for Windows 7 for free from http://bit.ly/lvAjC. This is the version you would use with Windows 7 computers that do support hardware virtualization.

Installing Accentient's Virtual Machine

1. Ensure the target computers meet the above requirements.
2. Create a folder named C:\Accentient.
3. Copy the various *.exe* and *.rar* files from the DVDs to the new folder. This can take 5-10 minutes.
4. Run the *.exe* from the hard drive folder, specifying C:\Accentient as the destination and click Install. This may take 10-20 minutes.



Tip: Don't try running the *.exe* directly from the DVD.

5. When finished, browse the files in C:\Accentient.
6. If you are running ***Virtual PC 2007***:
   a. Download the appropriate version of the VMC file from http://resources.accentient.com
   b. Unzip the VMC file and double-click it.

   Note: If the VM doesn't start, it could be that the memory needs to be adjusted. These images were configured for computers with 3 GB of RAM. Giving the VM (guest computer) less than 2048 MB of RAM will result in a significantly degraded learning experience.

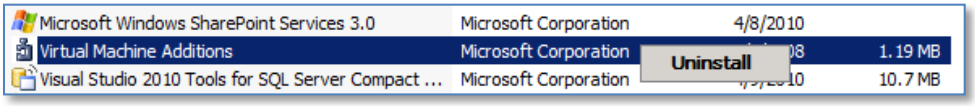
7. If you running ***Windows 7 Virtual PC***:
   a. You will need to convert the VM to Windows 7 format. Keep reading below on how to do this.
8. If you running ***Hyper-V***:
   a. You will need to convert the VM to Hyper-V format. Keep reading below on how to do this.
9. Once the VM starts up, login is Administrator / password (for the 2005|2008 versions it's P@ssw0rd) and verify that Windows has started up properly, without any error messages.

Converting Accentient's VM to Virtual PC for Windows 7

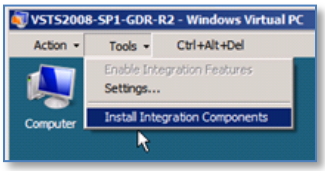
Follow these instructions to convert the Accentient VM to run under Virtual PC for Windows 7.

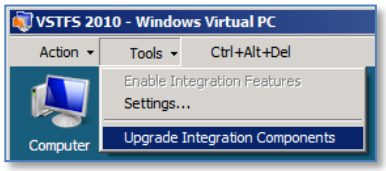
1. Ensure that Virtual PC for Windows 7 is installed on all target computers.
2. On one computer, create a new Windows 7 VM, naming it *Accentient* and using Accentient's VHD file.
3. Specify at least 2048 MB of RAM.
4. Enable Undo Disks.
5. Start the VM.
6. When you receive this message, click Cancel.

7. Log on to Windows using Ctrl + Alt + End (or the menu option) as Administrator.
8. If you get prompted about an unknown device, then click Cancel.
9. Go to Start > Control Panel > Programs and Features and uninstall *Virtual Machine Additions*.



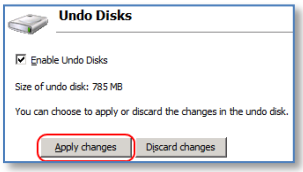
10. Restart Windows when prompted.
11. Log on as Administrator again.
12. If you get prompted about an unknown device, then click Cancel.
13. When the desktop shows up click Tools > Install (or Upgrade) Integration Components.





14. After a moment you will be prompted with an AutoPlay window. Click the *Run setup.exe* link to run setup.
15. Install the Virtual PC Integration Components using default values.
16. Restart Windows when prompted. After which, you should see four menu items (the *USB* menu is new).

17. From the Tools menu (above screenshot), select Enable Integration Features.
18. Test the environment, mouse, keyboard, VM menus, etc. You may need to restart Windows.
19. Shut down Windows and apply your Undo Disk changes.



20. Copy the converted .VHD file to all of the other Windows 7 computers to avoid repeating these steps!

Converting Accentient's VM to Hyper-V

Follow these instructions to convert the Accentient VM to run under Windows Server 2008 Hyper-V. For more information, read John Paul Cook (MVP)'s blog post: http://bit.ly/AjfDK .

1. Ensure that Hyper-V is installed and configured on all target computers.
2. On one computer, create a new Hyper-V VM, naming it *Accentient* and using Accentient's VHD file.
3. Specify at least 2048 MB of RAM.
4. Start the VM.
5. Log on to Windows using Ctrl + Alt + End (or the menu option) as Administrator.
6. Go to Start > Control Panel > Programs and Features and uninstall *Virtual Machine Additions*, but don't reboot Windows yet.

7. Click the Start button > Run > type *msconfig* and hit enter. If there's no Run command, you can press/hold the Windows key and press R.
8. In MSCONFIG click the Boot tab > Advanced Options button and check the box next to *Detect HAL* and then exit.
9. Restart Windows when prompted and log on as Administrator. You should see new devices being installed. This will take a few moments.
10. Restart Windows if/when prompted and log on as Administrator.
11. From the Hyper-V menu at the top of the VM screen, click Action > Insert Integration Services Setup Disk.
12. Run the Integration Services setup to install Hyper-V Integration Services.
13. Shut down Windows when prompted.
14. Copy the converted .VHD file to all of the other student computers to avoid doing all of these steps!

Notes

- The password for all accounts is password for the 2010 version and P@ssw0rd for the 2005|2008 versions.
- You can save time by decompressing the files onto one computer, adjusting the VM settings as necessary, and then copying all files to the other computers in the lab. Just remember that the uncompressed size of the files is in the neighborhood of 22+ GB, so budget enough time for the transfer. External USB drives can help speed up this process.
- If you have the free hard drive space, you should leave the original compressed file on the computer for disaster recovery and other goofs. It will serve as a way to refresh the VM image, should you need to do so. If you have a lot of free hard drive space, having a copy of the actual .vhd file rather than the compressed files will save you even more time during recovery. If you are unable to use a laptop or lab computer that meets the hardware requirements, consider hosting the VM on a desktop or server computer elsewhere in your enterprise and using the weaker computer to RDP in.
- After class is complete, please uninstall/delete all of these courseware files and destroy any DVDs.
- If you have any questions call us at (877) 710-0841 or send us an email at support@accentient.com.