WA2402 Introduction to Responsive Web Development with HTML5, CSS3, JavaScript and jQuery

Classroom Setup Guide

Table of Contents

Part 1 - Minimum Hardware Requirements

- 2 GHz Pentium IV

- 1 GB RAM minimum

- 8 GB in the hard disk

- USB port

Part 2 - Minimum Software Requirements

- One of the following Windows versions:

  o Windows XP Professional with SP3

  o Windows Vista SP1 (Business, Enterprise, or Ultimate)

  o Windows 7 (Professional, Enterprise, or Ultimate)

  o Windows 8

- Internet Explorer 8, 9 or 10

- Some of the labs require a browser other than Internet Explorer. You must have one of the following browsers available on the machine:

  o Latest Firefox (http://www.mozilla.com/firefox/)

  o Latest Chrome (http://www.google.com/chrome)

- Adobe Acrobat Reader

- Zip extraction utility

- Apache HTTP Server 2.2.14 *

- Notepad++ 6.5 *

* - indicates software provided as part of the courseware.

Part 3 - Software Provided

You will receive the following file:

- **WA2402.ZIP**

All other software listed under Minimum Software Requirements is either commercially licensed software that you must provide or software that is freely available off the Internet.

Part 4 - Important Ghosting or Imaging Information

Some of the software installed for this course will not function after changing the computer hostname. As such, cloning or imaging should not be used on a fully installed system.

You can save time by extracting the contents of the USB memory stick to C:\ on a clean OS install (no other software installed) and then imaging that hard drive. After restoring the image to the other computers and changing the hostnames, you can then install the software on each computer individually by following the instructions that are detailed later in this document.

Part 5 - Instructions

__1. Make sure a user with local administrative privileges is available for use during the class.

__2. Extract the **WA2402.ZIP** file to **C:**

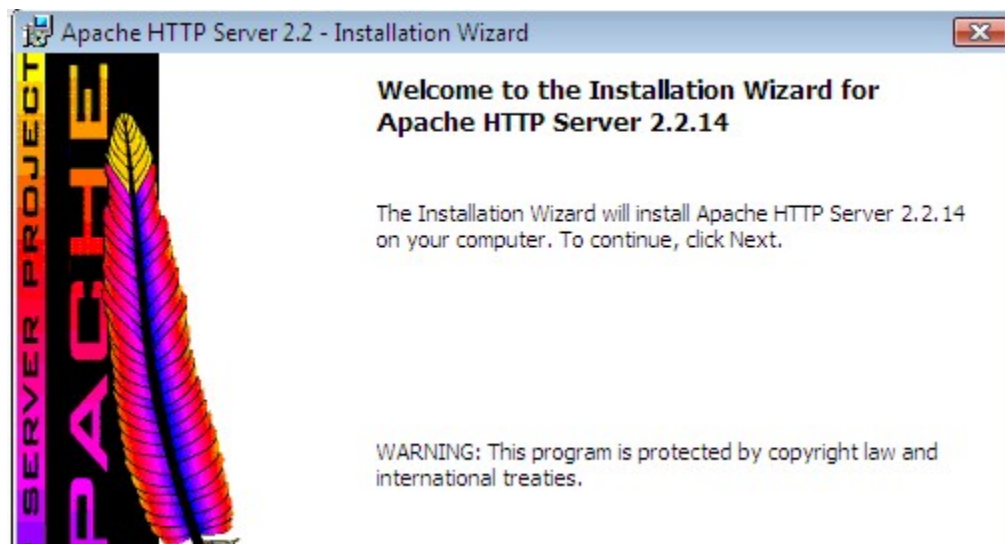__3. Review that the following folders were created:

- **C:\LabFiles**

- **C:\Software\Apache**

- **C:\Software\NotepadPlus**

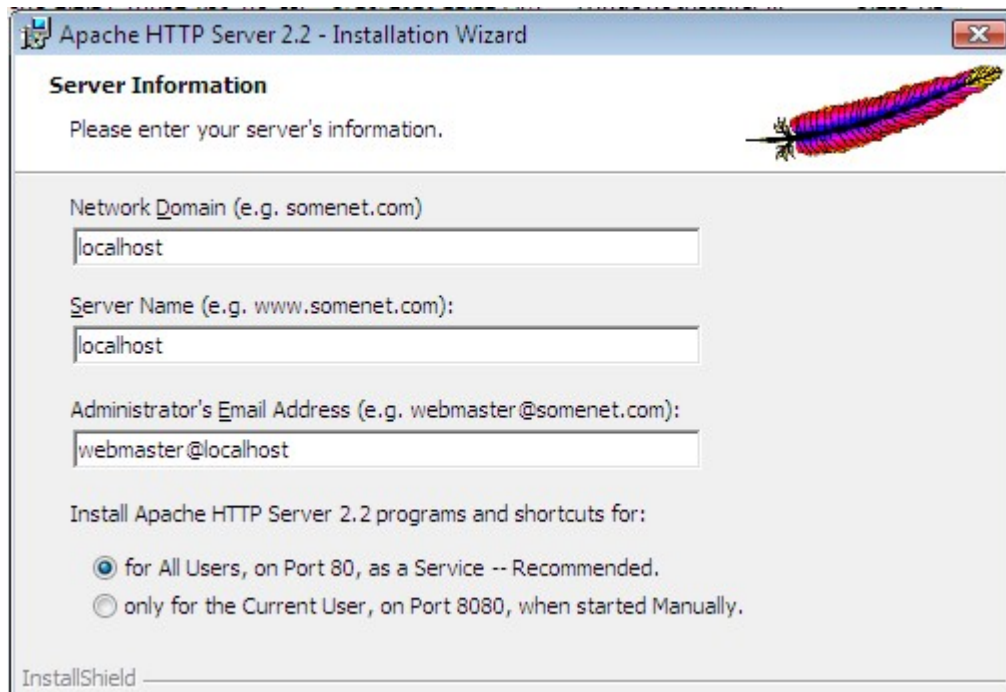__4. Review that the following files were created:

- **C:\Software\Apache\apache_2.2.14-win32-x86-no_ssl.msi**

Part 6 - Installing Apache HTTP Server 2.2.14

__1. Login as the administrative ID created for the class.

__2. Run **apache_2.2.14-win32-x86-no_ssl.msi** from the **C:\Software\Apache** folder.
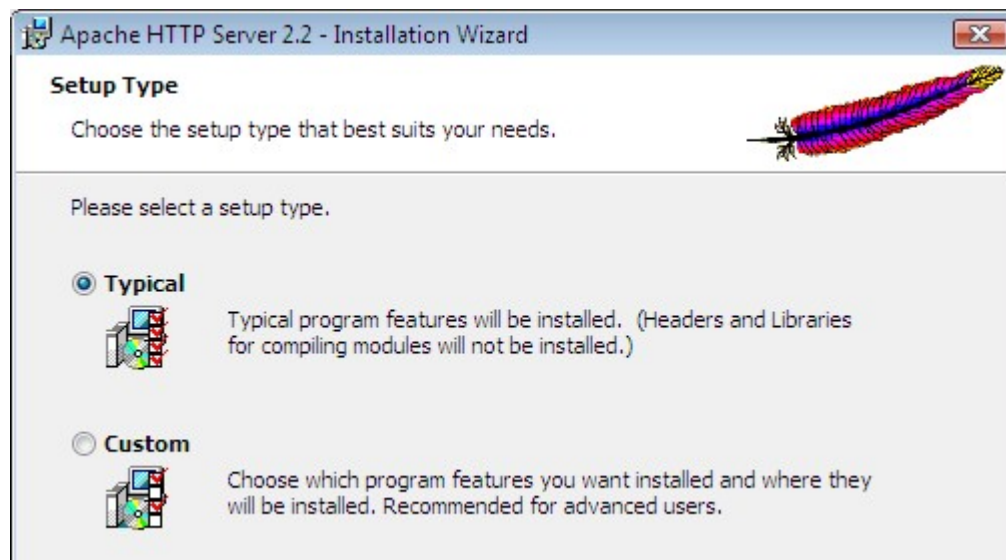
__3. In the Welcome screen, click **Next**.

__4. Accept the License Agreement and click **Next**.

__5. In the *Read This First* page, click **Next**.

__6. Enter **localhost** for **Network Domain** and **Server Name**.

__7. Enter **webmaster@localhost** for **Administrator's E-mail Address** as shown below.
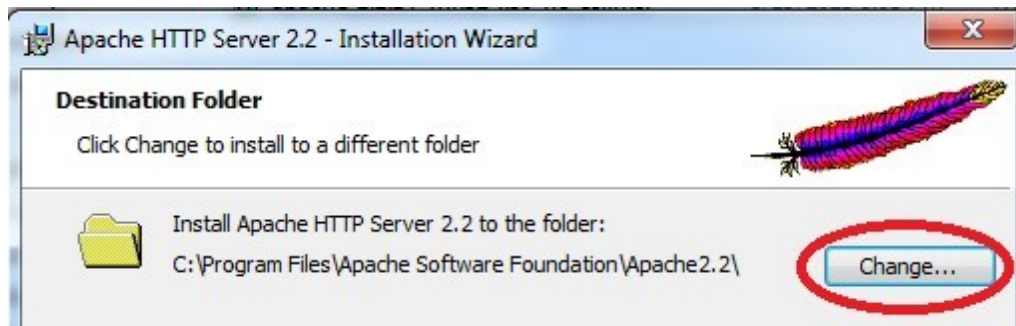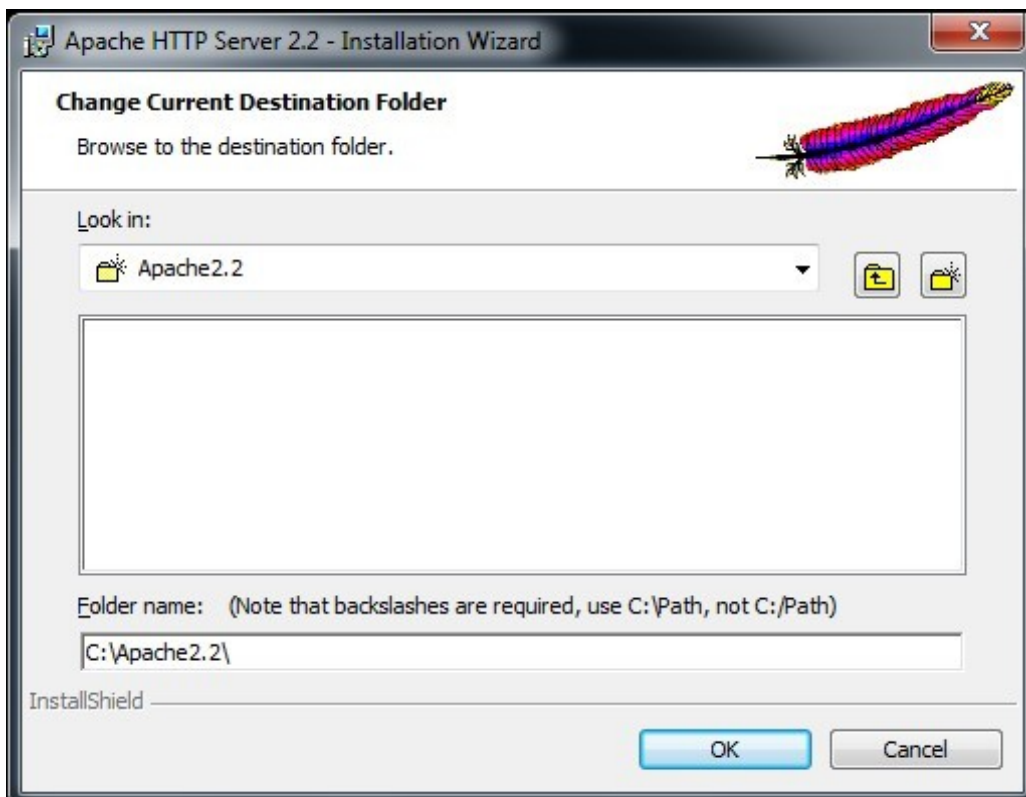
__8. Click the **Next** button.

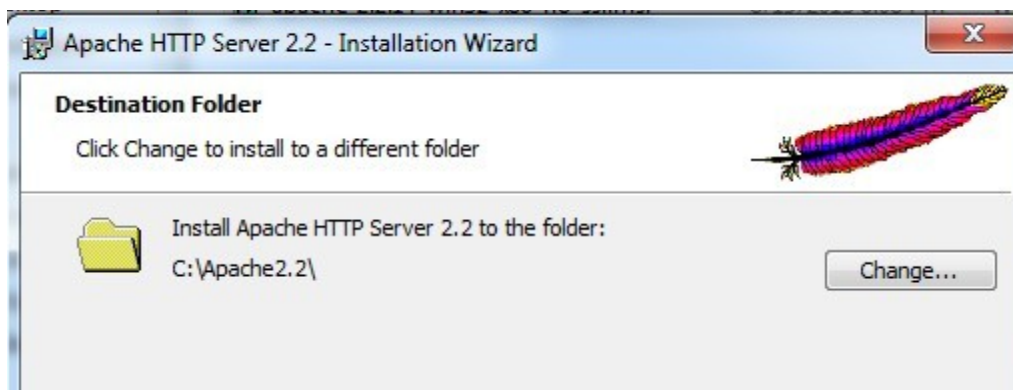__9. Select **Typical** installation and click **Next**.

__10. Click the **Change** button to change the destination folder.

__11. Then change the **Folder name** to C**:\Apache2.2** and click **OK**.
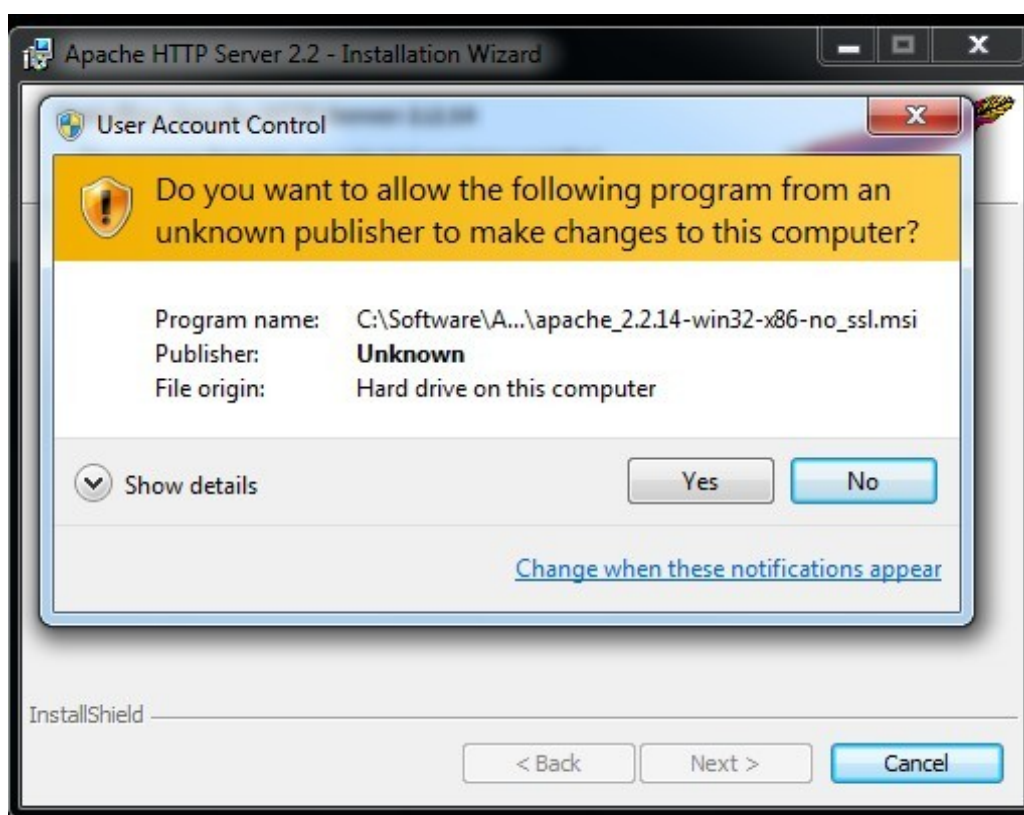

__12. Back in the *Destination Folder* page, confirm the new folder name (**C:\Apache2.2**) and click **Next**.

__13. Click **Install** to start the installation.

__14. If prompted by Windows security, click **Yes** to allow the installation to proceed.

__15. When the *Installation Wizard Completed* message appears, click **Finish**.
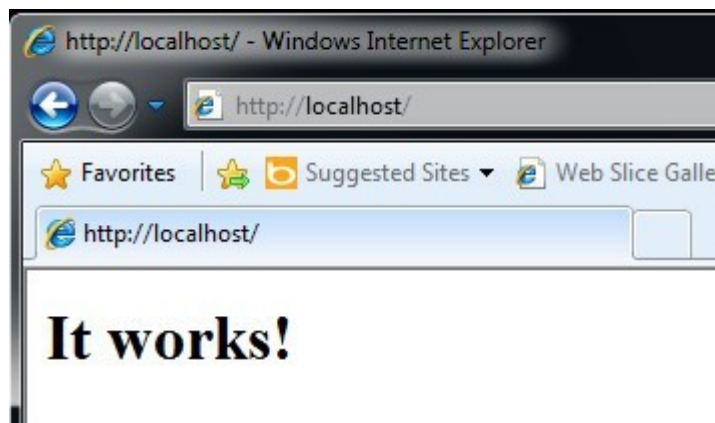
__16. Verify that the Apache Server is running on the task bar of Windows.

__17. Open a browser and type:

`http://localhost`

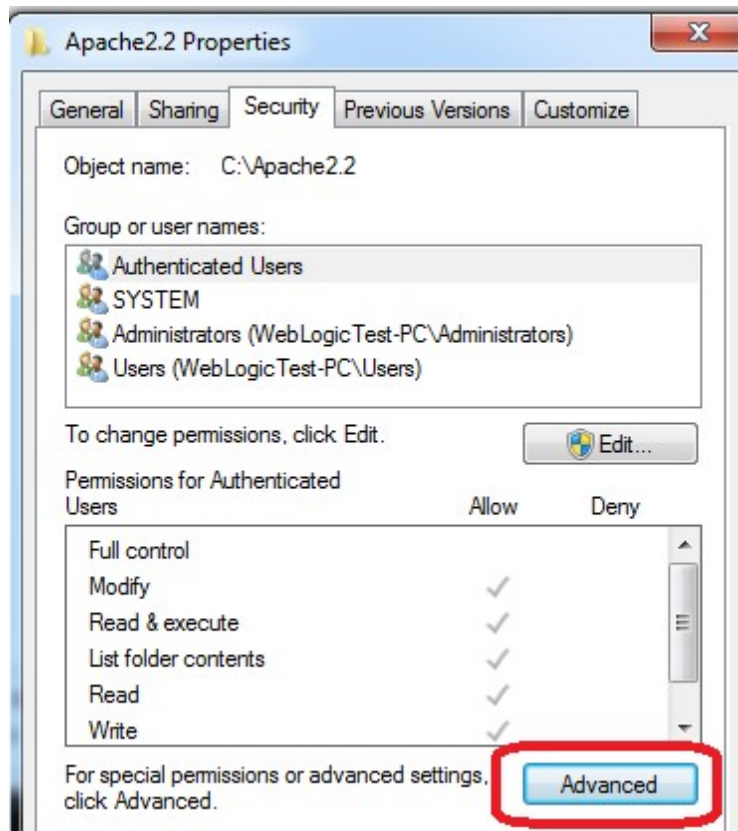__18. Verify you see the message: **It works!**

Apache HTTP Server 2.2.14 is installed.

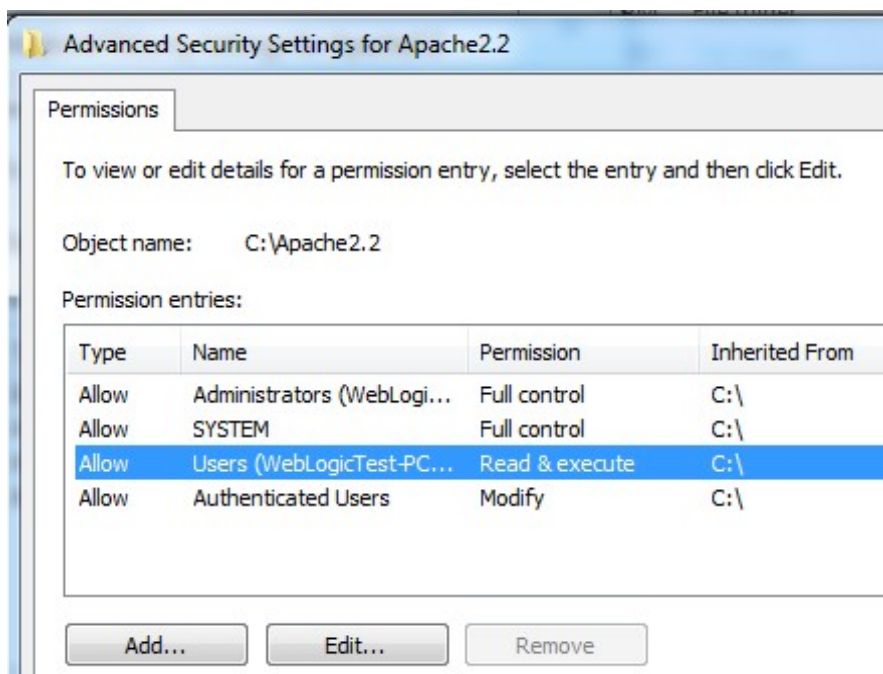## Part 7 - Modify File Permissions (Windows Vista, Windows 7, or Windows Server 2008)

Note: If installing on Windows Vista, Windows 7, or Windows Server 2008, perform this section. Failure to follow these additional steps will lead to an unusable installation. These steps allow full access to the directories used by the Apache Web Server install. This is required so that students can write to the document root.

__1. Open Windows Explorer.

__2. Right click C:**Apache2.2** and select **Properties**.

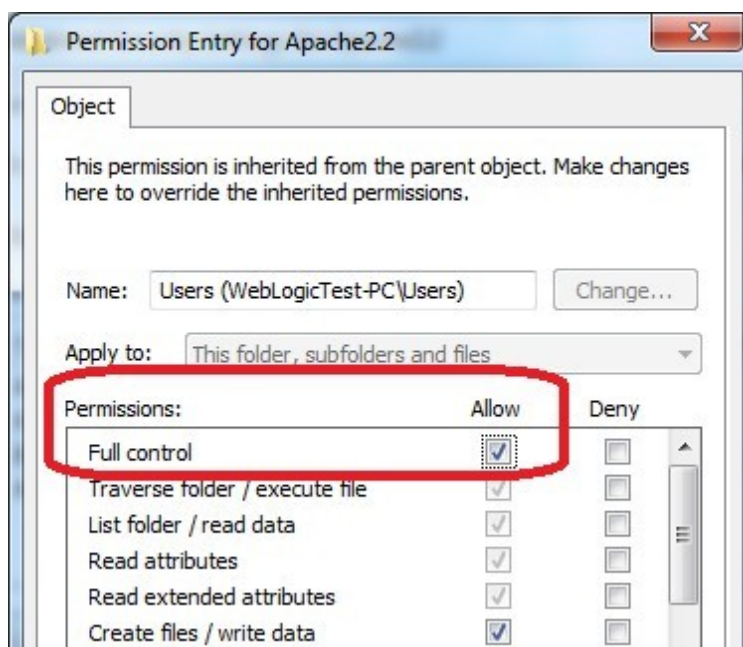__3. Click the **Security** tab.

__4. Click **Advanced**.

__5. Click **Change Permissions**.

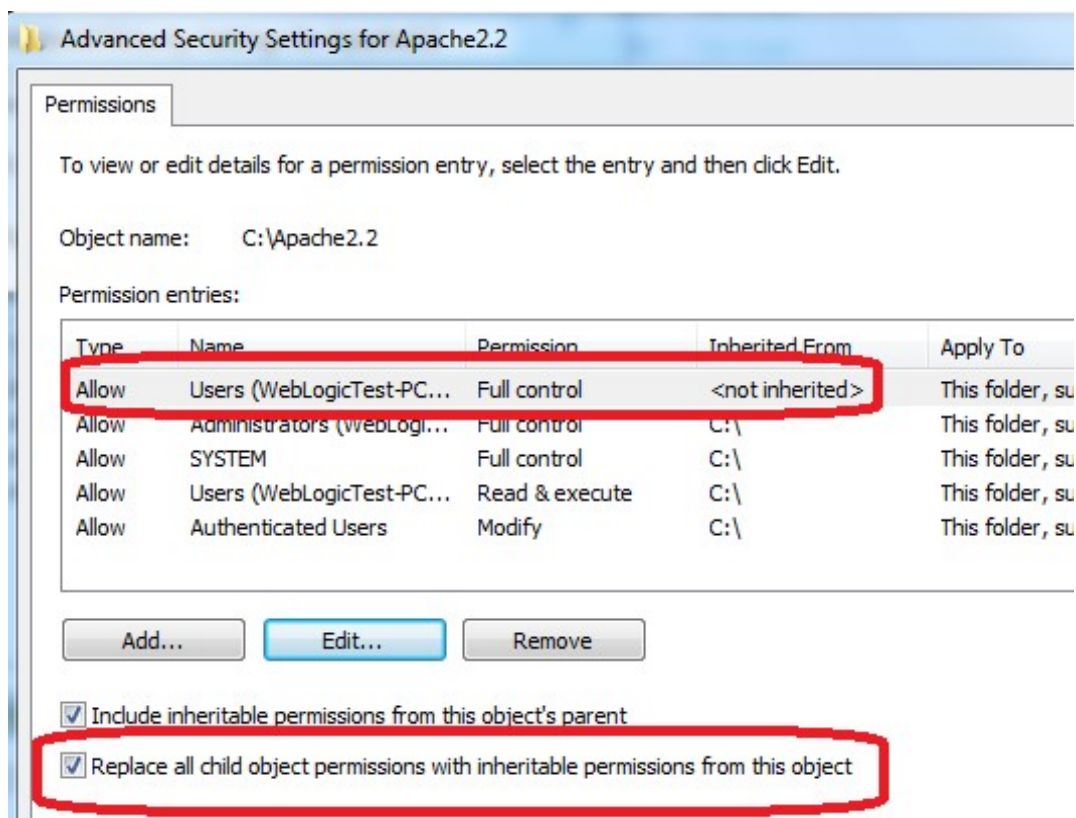__6. Select the **Users** entry **(add one if not present)**.

__7. Click **Edit…**

__8. Check the **Allow** checkbox to the right of **Full Control** and click **OK**.
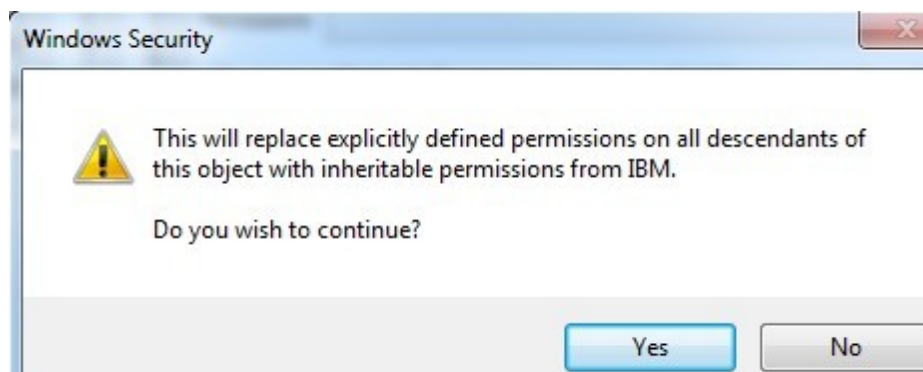
__9. Select the checkbox for **Replace all child permissions with inheritable permissions from this objects** and then click **OK**.
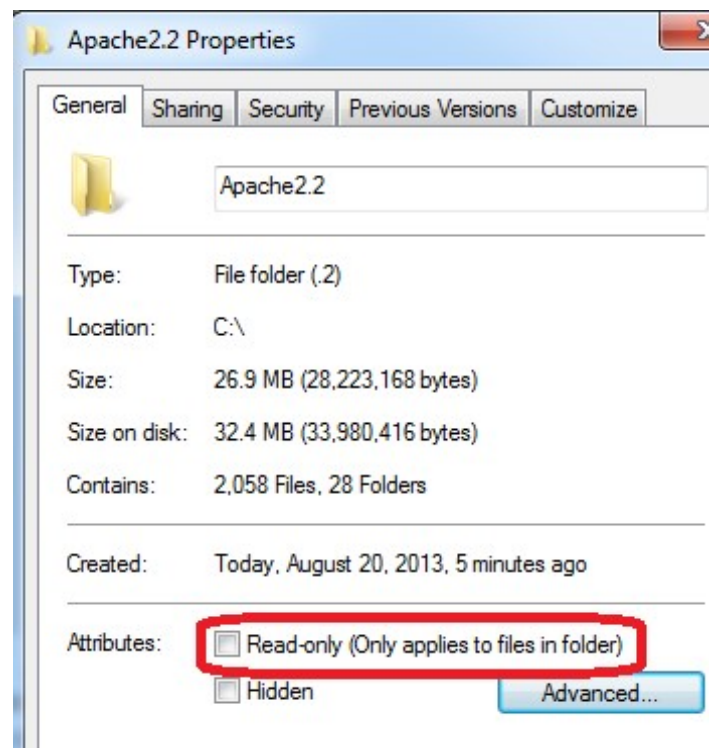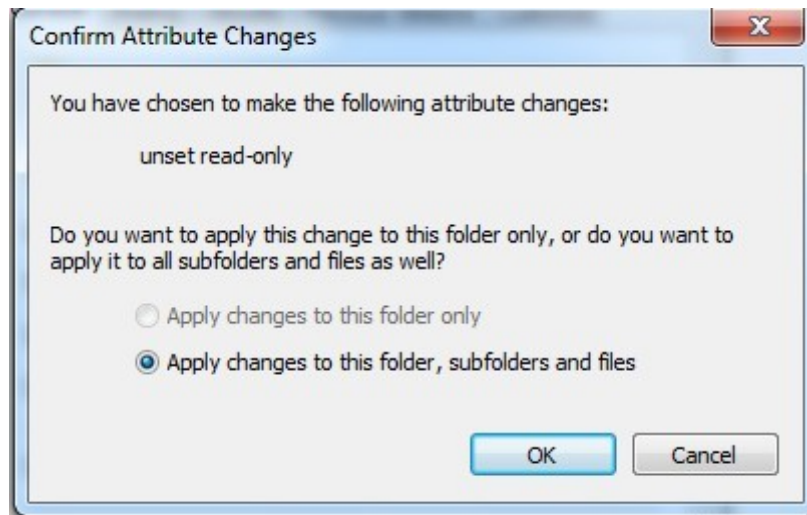

__10. Click **OK** to continue.

__11. A *Windows Security* dialog will open. Click **Yes**.

__12. Wait until Windows finishes updating security.

__13. Back in the *Advanced Security Settings* dialog, click **OK**.

__14. Back in the *Apache2.2 Properties* dialog, click **OK**.

__15. Right click C:**Apache2.2** and select **Properties**.

__16. Uncheck the **Read-only** checkbox so files can be written to the directory.

__17. Click **OK**.

__18. In the *Confirm Attribute Changes* dialog, click **OK**, so the change will be applied to this folder, subfolder, and any files.

__19. Restart the computer and log in with the user that the student will use to do the labs.

__20. Make sure the user has full access to the **C:\Apache2.2\conf** and **C:\Apache2.2\htdocs** folders.

Congratulations, file permissions have been configured appropriately for the Apache Web Server.

Congratulations. The installation for this course has been completed.