

CNT 4714: Enterprise Computing Fall 2009

Integrating Apache And PHP

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Apache Server Set-up

- Once you get the Apache Server downloaded and running on your machine...you should see the screen as shown on page 12, you'll need to configure Apache to work with PHP.
- There are a couple of steps required to accomplish this task:
 1. Assume that you've downloaded PHP and placed it in the directory `c:/php`.
 2. Add the PHP directory to the PATH statement.
 3. Setup a valid configuration file for PHP. Do the following:
 - a) Copy `php.ini-recommend` inside `c:/php` and rename it to `php.ini`.

Details for obtaining the Apache HTTP 2.2.14 server and PHP 5.3.1 begin on page 8.



Apache Server Set-up (cont.)

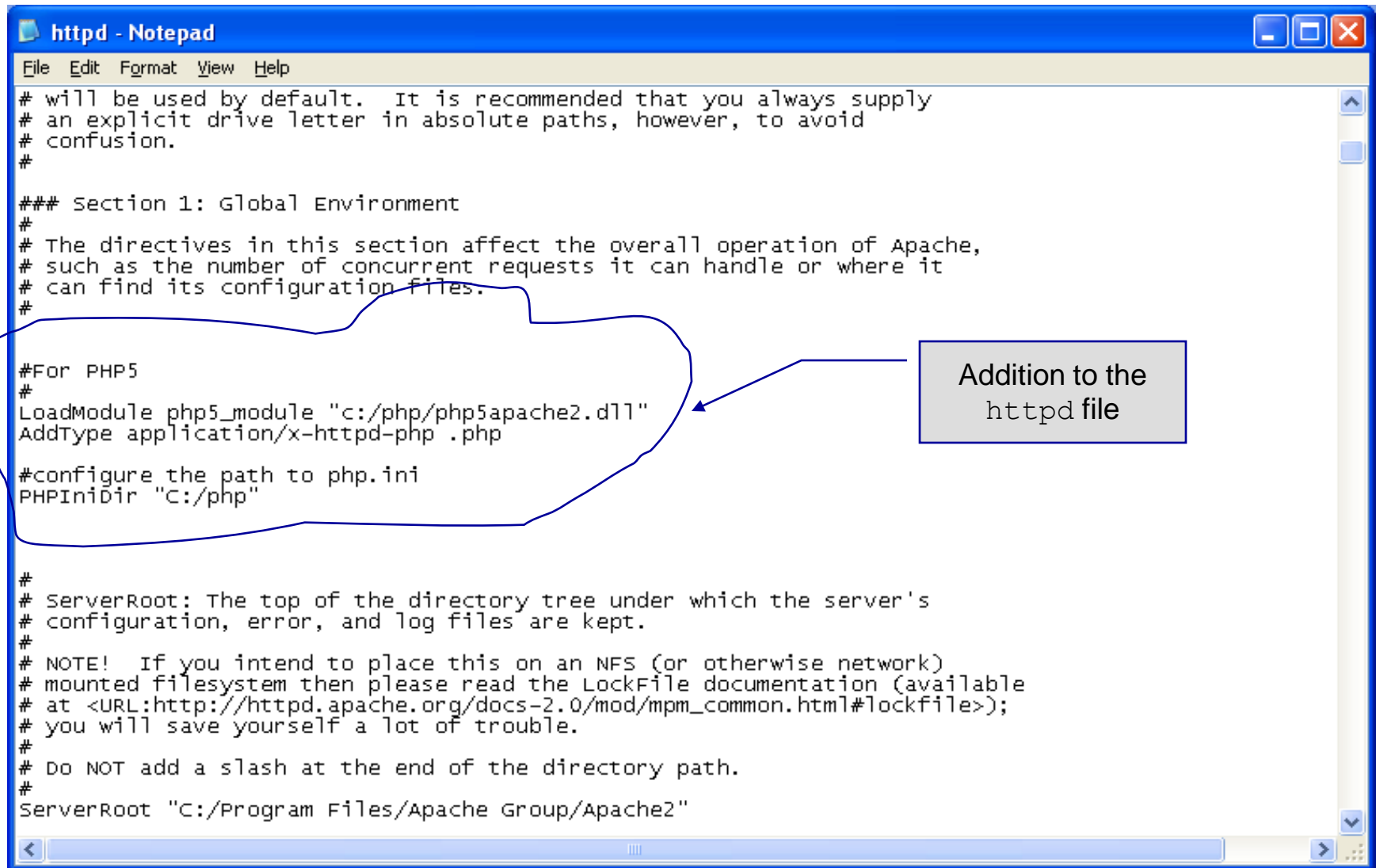
4. Install PHP as an Apache module by doing the following:
 - a) Edit the Apache `httpd` file found in the Apache `conf` directory.
 - b) Add the following lines to this file in Section1: Global Environment. (screen shot on next page shows location of this edit)

```
#For PHP5
#
LoadModule php5_module "c:/php/php5apache2.dll"
AddType application/x-httpd-php .php
#configure the path to php.ini
PHPIniDir "C:/php"
```

5. Once these steps are completed, Apache is configured to run PHP (basic components – more later). When you've completed these steps, you can begin writing PHP code.



Apache Server Set-up (cont.)



```
File Edit Format View Help
# will be used by default. It is recommended that you always supply
# an explicit drive letter in absolute paths, however, to avoid
# confusion.
#

### Section 1: Global Environment
#
# The directives in this section affect the overall operation of Apache,
# such as the number of concurrent requests it can handle or where it
# can find its configuration files.
#

#For PHP5
#
LoadModule php5_module "c:/php/php5apache2.dll"
AddType application/x-httpd-php .php

#configure the path to php.ini
PHPIniDir "c:/php"

#
# ServerRoot: The top of the directory tree under which the server's
# configuration, error, and log files are kept.
#
# NOTE! If you intend to place this on an NFS (or otherwise network)
# mounted filesystem then please read the LockFile documentation (available
# at <URL:http://httpd.apache.org/docs-2.0/mod/mpm_common.html#lockfile>);
# you will save yourself a lot of trouble.
#
# Do NOT add a slash at the end of the directory path.
#
ServerRoot "C:/Program Files/Apache Group/Apache2"
```

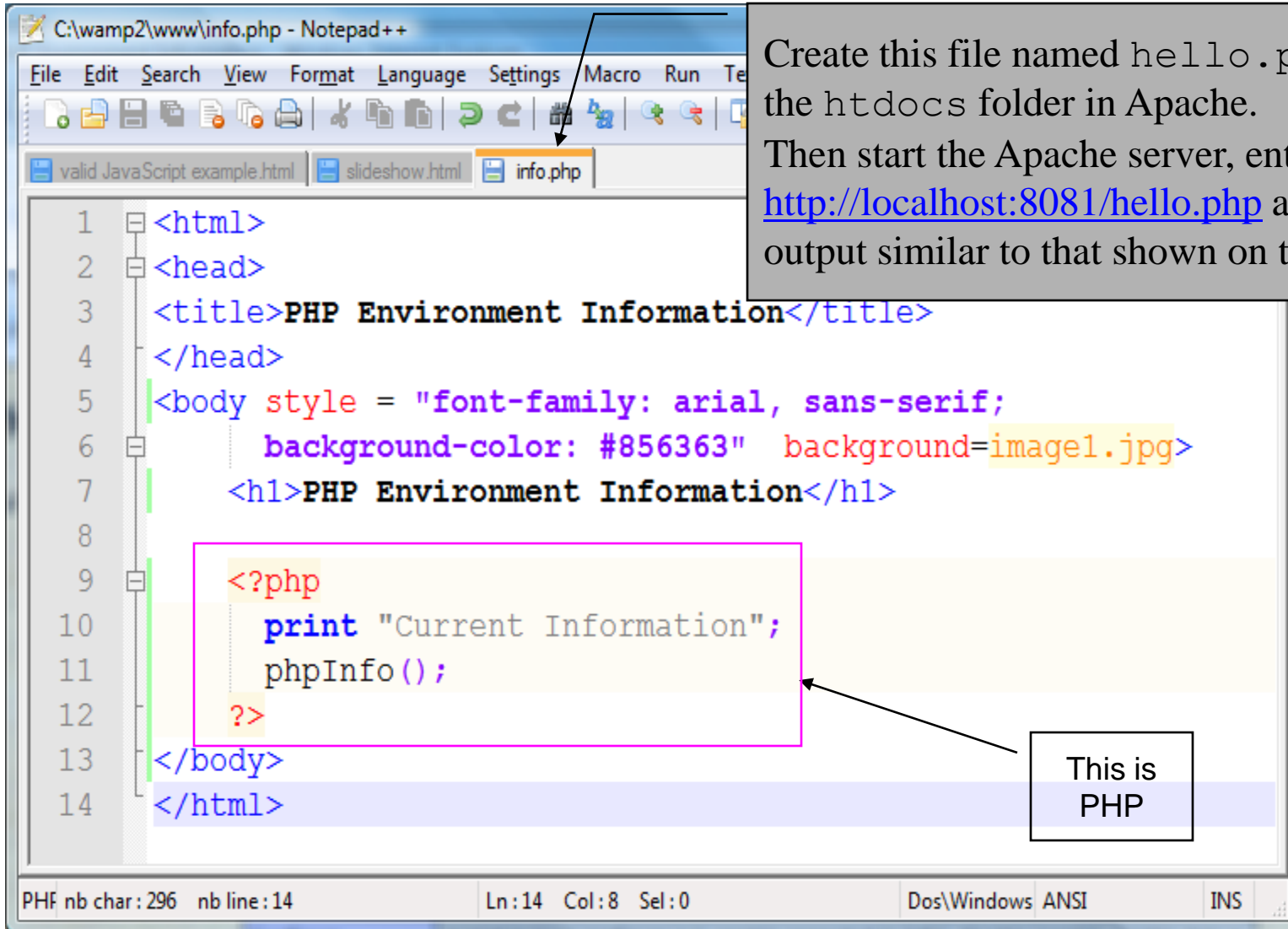
Addition to the
httpd file



A PHP Test Example

Create this file named `hello.php` and save it to the `htdocs` folder in Apache.

Then start the Apache server, enter the URL: <http://localhost:8081/hello.php> and you should see output similar to that shown on the next slide.



```
1 <html>
2 <head>
3 <title>PHP Environment Information</title>
4 </head>
5 <body style = "font-family: arial, sans-serif;
6     background-color: #856363" background=imagem1.jpg>
7     <h1>PHP Environment Information</h1>
8
9     <?php
10         print "Current Information";
11         phpinfo ();
12     ?>
13 </body>
14 </html>
```

PHF nb char : 296 nb line : 14 Ln: 14 Col: 8 Sel: 0 Dos\Windows ANSI INS

This is
PHP



PHP Environment Information - Windows Internet Explorer

http://localhost:8081/info.php

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Google Search Bookmarks Check Sign In

PHP Environment Information

PHP Environment Information

Current Information

PHP Version 5.3.0



System	Windows NT 9VQ2JH1-PC 6.0 build 6001 (Windows Vista Business Edition Service Pack 1) i586
Build Date	Jun 29 2009 21:23:30
Compiler	MSVC6 (Visual C++ 6.0)
Architecture	x86
Configure Command	cscrip /nologo configure.js "--enable-snapshot-build" "--disable-isapi" "--enable-debug-pack" "--with-pdo-oci=D:\php-sdk\oracle\instantclient10\sdk,shared" "--with-oci8=D:\php-sdk\oracle\instantclient10\sdk,shared" "--with-oci8-11g=D:\php-sdk\oracle\instantclient11\sdk,shared" "--with-enchanted=shared"
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	C:\Windows

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PHP Environment Information - Windows Internet Explorer

http://localhost:8081/info.php

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PHP Environment Information

System	Windows NT 9VQ2JH1-PC 6.0 build 6001 (Windows Vista Business Edition Service Pack 1) i586
Build Date	Jun 29 2009 21:23:30
Compiler	MSVC6 (Visual C++ 6.0)
Architecture	x86
Configure Command	cscript /nologo configure.js "--enable-snapshot-build" "--disable-isapi" "--enable-pdo" "--with-pdo-oci=D:\php-sdk\oracle\instantclient10\sdk,shared" "--with-oci8=D:\php-sdk\oracle\instantclient10\sdk,shared" "--with-oci8-11g=D:\php-sdk\oracle\instantclient11\sdk,shared" "--with-enchanted=shared"
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	C:\Windows
Loaded Configuration File	C:\wamp2\bin\apache\Apache2.2.11\bin\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20090626

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The default directory for the php.ini file will be the system directory C:/WINDOWS unless you set the path to the c:/php directory using the technique shown on page 5. Note, that in my case its coming from the WAMP server.



Apache Server Set-up

- The following couple of pages illustrate how to get the Apache HTTP Server.
- The current best version is 2.2.14, which went live on October 10, 2009.



Getting The Apache HTTP Server

Welcome! - The Apache Software Foundation - Windows Internet Explorer

http://www.apache.org/

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Google Search Bookmarks

Foundation Projects People Get Involved Support Apache Download ASF Blog

The Apache Software Foundation

Celebrating a Decade of Open Source Leadership.

The Apache Software Foundation provides support for the Apache community of open-source software projects. The **Apache projects** are characterized by a collaborative, consensus based development process, an open and pragmatic software license, and a desire to create high quality software that leads the way in its field.

We consider ourselves not simply a group of projects sharing a server, but rather a *community of developers and users.*

Latest News

If you would like to keep up with news and announcements from the foundation and all its projects, you can subscribe to the **Apache Announcements List** or you can subscribe to **our foundation blog**. Latest blog entries:

The Apache Software Foundation, live on Times Square and in Vegas!

Go

Apache Projects

- **HTTP Server**
- **Abdera**
- **ActiveMQ**
- **Ant**
- **APP**

Foundation

- **FAQ**
- **Licenses**
- **News**
- **Press Inquiries**
- **Public Records**

Internet | Protected Mode: Off 100%

From the main www.apache.org webpage, select the HTTP Server link.



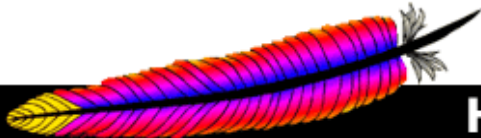
Welcome! - The Apache HTTP Server Project - Windows Internet Explorer

http://httpd.apache.org/

File Edit View Favorites Tools Help

Google Search Bookmarks Check Translate Sign In

Welcome! - The Apache HTTP Server Project



Apache HTTP SERVER PROJECT

The Number One HTTP Server On The Internet

Essentials

- [About](#)
- [License](#)
- [FAQ](#)
- [Security Reports](#)

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows NT. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

Apache has been the most popular web server on the Internet since April 1996.

The Apache HTTP Server is a project of [The Apache Software Foundation](#).

Download!

- [from a mirror](#)


Apache HTTP Server at ApacheCon US 2009 - 2-6 November, Oakland, CA

Documentation

- [Version 2.2](#)
- [Version 2.0](#)
- [Version 1.3](#)
- [Trunk \(dev\)](#)
- [Wiki](#)

The Apache Web Server is where it all started, and, although now just one project among many, it has continued to develop new and exciting features over its entire 15 year history.

Join us at ApacheCon US 2009 for [httpd.conf](#), a two-day conference-within-a-conference, jam-packed with great content. In addition to covering general aspects of the server, we'll also show you what's new in 2.2, and what's coming in the 2.4 release - SNI, dynamic configuration files,



Celebrating a Decade of Open Source Leadership
<http://www.apache.org/>

Done Internet | Protected Mode: Off 100%

From the main HTTP Server page, select download from a mirror site.



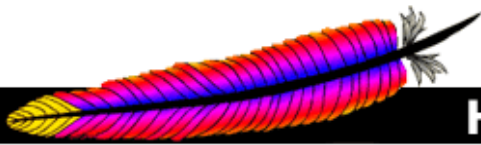
Download - The Apache HTTP Server Project - Windows Internet Explorer

http://httpd.apache.org/download.cgi

File Edit View Favorites Tools Help

Google Search Bookmarks Check Translate Sign In

Download - The Apache HTTP Server Project



Apache HTTP SERVER PROJECT

Downloading the Apache HTTP Server

Essentials

- [About](#)
- [License](#)
- [FAQ](#)
- [Security Reports](#)

Use the links below to download the Apache HTTP Server from one of our **mirrors**. You **must** [verify the integrity](#) of the downloaded files using signatures downloaded from our main distribution directory.

Only current recommended releases are available on the main distribution site. Older releases are available from the [archive download site](#).

If you are downloading the Win32 distribution, please read these [important notes](#).

Download!

- [from a mirror](#)

Documentation

- [Version 2.2](#)
- [Version 2.0](#)
- [Version 1.3](#)
- [Trunk \(dev\)](#)
- [Wiki](#)

Mirror

The currently selected mirror is **http://mirror.atlanticmetro.net/apache**. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available.

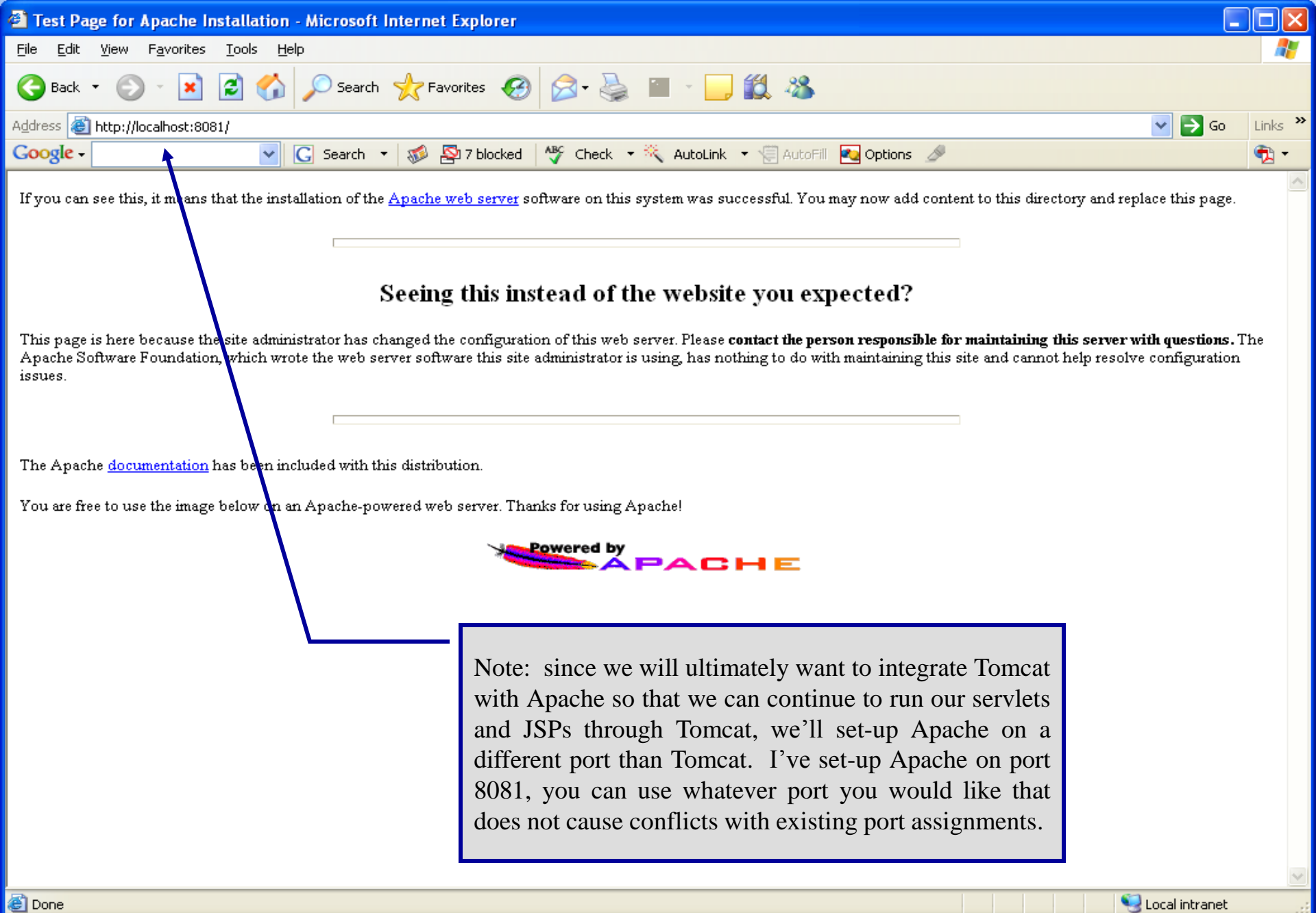
Other mirrors:

You may also consult the [complete list of mirrors](#).

Done Internet | Protected Mode: Off 100%

Either accept the default mirror site or select another.





If you can see this, it means that the installation of the [Apache web server](#) software on this system was successful. You may now add content to this directory and replace this page.

Seeing this instead of the website you expected?

This page is here because the site administrator has changed the configuration of this web server. Please **contact the person responsible for maintaining this server with questions**. The Apache Software Foundation, which wrote the web server software this site administrator is using, has nothing to do with maintaining this site and cannot help resolve configuration issues.

The Apache [documentation](#) has been included with this distribution.

You are free to use the image below on an Apache-powered web server. Thanks for using Apache!



Note: since we will ultimately want to integrate Tomcat with Apache so that we can continue to run our servlets and JSPs through Tomcat, we'll set-up Apache on a different port than Tomcat. I've set-up Apache on port 8081, you can use whatever port you would like that does not cause conflicts with existing port assignments.



http://www.php.net/

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Google Search Bookmarks Check Sign In

PHP: Hypertext Preprocessor

php downloads documentation faq getting help mailing lists licenses wiki reporting bugs php.net sites links conferences my php.net

search for in the function list

Select downloads from the main PHP page.

What is PHP?

PHP is a widely-used general-purpose scripting language that is especially suited for Web development and can be embedded into HTML. If you are new to PHP and want to get some idea of how it works, try the [introductory tutorial](#). After that, check out the online [manual](#), and the example archive sites and some of the other resources available in the [links section](#).

Ever wondered how popular PHP is? see the [Netcraft Survey](#).

[Thanks To](#)

PHP 5.3.1 Released!

[19-Nov-2009] The PHP development team would like to announce the immediate availability of PHP 5.3.1. This release focuses on improving the stability of the PHP 5.3.x branch with over 100 bug fixes, some of which are security related. All users of PHP are encouraged to upgrade to this release.

Security Enhancements and Fixes in PHP 5.3.1:

- Added "max_file_uploads" INI directive, which can be set to limit the number of file uploads per-request to 20 by default, to prevent possible DOS via temporary file exhaustion.
- Added missing sanity checks around exif processing.
- Fixed a safe_mode bypass in tempnam().
- Fixed a open_basedir bypass in posix_mkfifo().
- Fixed failing safe_mode_include_dir.

Further details about the PHP 5.3.1 release can be found in the [release announcement](#), and the full list of changes are available in the [ChangeLog](#).

Stable Releases

[Current PHP 5.3 Stable: 5.3.1](#)
[Current PHP 5.2 Stable: 5.2.11](#)

Release Candidates

[5.2.12RC3 \(27 Nov 2009\)](#)

Upcoming Events [\[add\]](#)

November

User Group Events

30. [Long Island PHP Users Group](#)

December

Conferences

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PHP: Downloads - Windows Internet Explorer

http://www.php.net/downloads.php

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PHP: Downloads

php downloads | documentation | faq | getting help | mailing lists | licenses | wiki | report

search for

Binaries for other systems

We do not distribute UNIX/Linux binaries. Most Linux distributions come with PHP these days, so if you do not want to compile your own, go to your distribution's download site. Binaries available on external servers:

- AS/400
- Mac OS X
- Novell NetWare
- OS/2
- RISC OS
- SGI IRIX 6.5.x
- Solaris (SPARC, INTEL)
- Solaris OpenCSW packages
- Redhat/CentOS Binaries

Development and

PHP 5.3.1

Complete Source Code

- [PHP 5.3.1 \(tar.bz2\)](#) [10,212Kb] - 19 Nov 2009
md5: 63e97ad450f0f7259e785100b634c797
- [PHP 5.3.1 \(tar.gz\)](#) [13,294Kb] - 19 Nov 2009
md5: 41fbb368d86acb13fc3519657d277681

Windows Binaries

- For the Windows binaries and installer, see <http://windows.php.net/download/>.

PHP 5.2.11

Complete Source Code

- [PHP 5.2.11 \(tar.bz2\)](#) [8,819Kb] - 17 September 2009
md5: 286bf34630f5643c25ebcedfec5e0a09
- [PHP 5.2.11 \(tar.gz\)](#) [11,419Kb] - 17 September 2009

Done Internet | Protected Mode: Off 100%

Select appropriate download for your system. For Windows, the installer version works well except it requires manual set-up for Apache. See earlier notes for details.

