
From IOST Wiki

Moodle: Part 1 - Setting up PHP on the Server

<< | Moodle For Windows | Installing FastCGI onto the webserver >>

1. Download the latest **Non-Thread Safe** version of the PHP zip Package from the Windows Binary Section of the PHP website <http://www.php.net/downloads.php> *Do not download the installer package*
2. Create a Folder on the server for the PHP application. In this case we'll use `C:\PHP`
3. Extract the Downloaded PHP zip file to the `C:\PHP` folder
4. Create a session state folder called *Sessions* in your PHP directory: `C:\PHP\Sessions`
5. Open the `C:\PHP` folder and rename the `php.ini-recommended` to `php.ini` - then open the file in notepad and make the following changes:
 1. Uncomment (remove the ; from) the `cgi.force_redirect` line and set it to 0:
`cgi.force_redirect=0`
 2. Set the `safe_mode` variable to OFF: **`safe_mode = Off`**
 3. Set the `memory_limit` variable to a value based on the amount of RAM in our case **`512M`**
 4. Set the `session.save_handler` variable to FILES: **`session.save_handler = FILES`**
 5. Set the `magic_quotes_gpc` variable to OFF: **`magic_quotes_gpc = Off`**
 6. Set the `magic_quotes_runtime` = Off: **`magic_quotes_runtime = Off`**
 7. Set the `file_uploads` variable to ON: **`file_uploads = On`**
 8. Set the `session.auto_start` variable to 0: **`session.auto_start = 0`**
 9. Set the `session.bug_compat_warn` to 0: **`session.bug_compat_warn = 0`**
 10. Uncomment and set the `session.save_path` variable to `C:\php\sessions`: **`Session.save_path = "C:\PHP\sessions"`**
 11. Set the `extension_dir` variable to `C:\PHP\ext`: **`extension_dir = "C:\PHP\ext"`**
 12. Uncomment the variable **`extension=php_ldap.dll`**
 13. Uncomment the variable **`extension=php_curl.dll`**
 14. Uncomment the variable **`extension=php_openssl.dll`**
 15. Uncomment the variable **`extension=php_xmldrpc.dll`**
 16. Uncomment the variable **`extension=mbstring.dll`**
 17. Uncomment the variable **`extension=php_gd2.dll`**
 18. Uncomment and set the `date.timezone` variable to "Europe\London": **`date.timezone = "Europe\London"`**
 19. Set the `post_max_size` variable to 1024M: **`post_max_size = 1024M`**
 20. Set the `upload_max_filesize` variable to 1024M: **`upload_max_filesize = 1024M`**
 21. Set the `max_execution_time` to 600: **`max_execution_time = 600`**
6. Add `C:\PHP` to the servers PATH environment variable
7. Add the following Key to the Windows Registry: **`HKLM\SOFTWARE\PHP\IniFilePath = C:\PHP`**
8. Download the **`php_browscap.ini`** file from <http://browsers.garykeith.com/downloads.asp> and save it to the `C:\PHP\extras` folder
9. Uncomment and add the full path to the browscap variable in to the `php.ini` file:
`browscap="C:\php\extras\php_browscap.ini"`

10. Download the Windows Cache Extension for PHP from **<http://www.iis.net/expand/WinCacheForPHP>**

1. Add the extension variable to the list of extensions: **extension = php_wincache.dll**

This should complete the configuration of PHP for the server

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Moodle: Part 2 - Installing FastCGI On the Server

<< [Installation and Configuration of PHP](#) | [Moodle For Windows](#) | [Configuring PHP script mapping in IIS](#) >>

1. Download the FastCGI msi from <http://www.iis.net/expand/FastCGI>
2. Run the installer on the server: it should extract several files to the folder `C:\windows\system32\inetsrv` folder. the files all start with **fcgi**
3. Navigate to the `C:\windows\system32\inetsrv` folder and open the `fcgiext.ini`
4. Add the following to the end of the file

```
[Types]
php=PHP
[PHP]
ExePath=C:\PHP\php-cgi.exe
InstanceMaxRequests=10000
EnvironmentVars=PHP_FCGI_MAX_REQUESTS:10000
ActivityTimeout=300
```

This should complete the Configuration of FastCGI

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Moodle: Part 3 - Configure PHP Script Mapping in IIS

<< [Installing FastCGI onto the webserver](#) | [Moodle For Windows](#) | [Creating a Moodle application in IIS](#) >>

To allow IIS to process PHP Pages we have to manually add a script mapping for the .php file extension and set it to run using the FastCGI handler

NOTE: If the Web Service Extension *FastCGI Handler* exists then proceed to step 2

1. Add and Allow the PHP FastCGI Handler
 1. Open the IIS manager
 2. Right Click the *Web Service Extensions* folder
 3. Select *Add a new Web service extension*
 4. Type *PHP FastCGI* as the extension name
 5. Click the *Add...* button and enter the full path to the fcgiext.dll file. This should be `c:\windows\system32\inetsrv\fcgiext.dll`
 6. Click *OK*
 7. Enable the *Set extension status to Allowed* option and then click *OK*
2. Add the new .php extension mapping
 1. Open IIS Manager
 2. Right Click on *Web Sites*
 3. Select *Properties*
 4. Open the *Home Directory* tab
 5. Click the *Configuration...* button
 6. Make sure the *Cache ISAPI Extensions* checkbox is selected
 7. Click *Add...*
 8. Enter the full path to the fcgiext.dll *Executable* field. This should be `c:\windows\system32\inetsrv\fcgiext.dll`
 9. Enter *.php* in the *Extension* field
 10. Select the *Limit to* radio button and enter GET,POST,HEAD
 11. Click *OK*
 12. Click *OK*
 13. Click *OK*

IIS will now be able to use FastCGI to process .php pages in the sites that you create in IIS

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Moodle: Part 4 - Creating a Moodle Application in IIS

<< [Configuring PHP script mapping in IIS](#) | [Moodle For Windows](#) | [Configuring PHP to work with MSSQL 2005](#) >>

NOTE: Creating the Moodle Application like this should only be doen for dedicated servers - once configured IIS on this server should not be used to host any other sites

1. Open IIS Manager
2. Expand *Web Sites*
3. Right Click on the *Default Web Site*
4. Select *Properties*
5. Open the *Home Directory* Tab
6. Enter the Path to the Moodle Directory in the *Local Path* field. If it does not exist create it - in this case **D:\moodle**
7. Open the *Documents* tab
8. Click *Add*
9. Enter *index.php*
10. Click *OK*
11. Remove all other items from the list
12. Click *OK*

"NOTE: Once this is complete you can now test PHP is configured correctly

1. Create a new file in "D:\Moodle" called index.php
2. Edit the file and add the following information

```
<?php phpinfo() ;
```

 1. Save and Close the file
 2. Open an Internet window and in the address bar type **http://localhost**
 3. The PHP test should be displayed

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Moodle: Part 5 - Configure PHP to work with MSSQL 2005

<< [Creating a Moodle application in IIS](#) | [Moodle For Windows](#) | [Creating the Moodle Database and Database Login](#) >>

NOTE: PLEASE ENSURE MICROSOFT SQL SERVER IS INSTALLED BEFORE CONTINUING

The following will configure PHP to work with MSSQL 2005 - you should not use the built in library `php_mssql.dll` as this library does not support UTF-8 encoding MSSQL Server uses UCS-2 so an alternative library needs to be downloaded in order to get it work.

1. Download the **Non-Thread Safe** version of the `php_dlib.dll` library from moodle.org
http://docs.moodle.org/en/Installing_MSSQL_for_PHP#Using_FreeTDS_on_Windows
2. Extract the `php_dlib.dll` to `C:\PHP\ext`
3. Open the `php.ini` file and add `extension=php_dlib.dll` to the extensions list
4. Save and Close the `php.ini` file
5. Navigate to the root of C
6. Create a file called `freetds.conf`
7. Edit the file and add the following information

```
[global]
host = <ENTER IP OF DATABASE SERVER HERE>
port = 1433
client charset = UTF-8
tds version = 7.0
text size = 20971520
```

1. Reboot the server so that php picks up the changes to the `php.ini` file

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Moodle: Part 6 - Creating the Moodle database and Database Login

<< [Configuring PHP to work with MSSQL 2005](#) | [Moodle For Windows](#) | [Installing Moodle](#) >>

NOTE: These instructions can be used for both, standard and express editions of SQL 2005

1. Navigate to the Root of D:
2. Add a new folder called *MoodleDB*
3. Open MS SQL Server Management Studio
 1. Right Click on the Databases Folder
 2. Select *New Database...*
 3. Enter the name of the database - in this case *moodle*
 4. In the database files window scroll right and locate the path column
 5. For the two entries in the path column click the ... button
 6. In the next window Select the previously created *MoodleDB* folder
 7. Click OK
 8. Repeat for the remaining entries
 9. Open the *Options* page - use all default settings except:
 10. Set *ANSI NULLS Enabled* to **TRUE**
 11. Set *Quoted Identifiers Enabled* to **TRUE**
 12. Click *OK* the new database will be created
4. Open the *Security* folder in the Object Explorer window
5. Expand the *Logins* sub-folder
6. Right click on the *Logins* folder
7. Select *New Login*
8. Enter the Login name. In this case *curricdom\moodledbsvc*
9. Select the Moodle Database as the default Database
10. Open the *User Mapping* page
11. Select the Moodle database in the *Users Mapped to this Login* section
12. Select *dbo* as the default schema
13. Select the following database role memberships
 1. *db_datareader*
 2. *db_datawriter*
 3. *db_ddladmin*
14. Click *OK* the new database user will be created and mapped to the moodle database
15. Close MS SQL Server Management Studio

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Moodle: Part 7 - Installing Moodle

<< [Creating the Moodle Database and Database Login](#) | [Moodle For Windows](#) | [Setup the Moodle Cron Job](#) >>

1. Download the latest Moodle package (.zip) from **<http://www.moodle.org/downloads>** (currently 1.9.7+)
2. Copy the contents moodle folder in the extracted zip file to D:\moodle drive - check any files before overwriting
3. Create a MoodleData Directory (for security place this outside the moodle folder (web root) - in this case *D:\MoodleData*)
4. Run the moodle installation by navigating to **<http://moodle/install.php>**
 1. Select the Language to install in - usually English(en)
 2. Click *Next*
 3. Ensure all the PHP Settings say **Pass**
 4. Click *Next*
 5. Enter the Web Address as ***http://moodle***
 6. Enter the Data Directory as *D:\moodledata*
 7. Click *Next*
 8. Select type **SQL*Server with UTF-8 support (mssql_n)**
 9. Enter the Host server as **Moodle**
 10. Enter Database as **Moodle**
 11. Enter User
 12. Enter Password
 13. Enter Tables Prefix as **mdl_**
 14. Click *Next*
 15. Ensure all the Server Checks checkout OK
 16. Click *Next*
 17. Click *Next*
 18. Click *Continue*
 19. Read the T's & C's and Click *Yes*
 20. Leave *Unattended operation* unchecked and click *Continue*

The Database Table Creation will begin Check for any errors during install and click *Continue* until finished Any warnings will be displayed at the top of the page

Once at the Setup Administrator Account page follow these instructions to set up the moodle admin account

1. Enter a Username - In this case **admin**
2. Enter a Password - NOTE: Strong passwords are required by default
3. Leave First name and surname as default
4. Enter an Email address
5. Enter a City/Town
6. Select a Country
7. Click *Update Profile*
8. Enter the Full site name
9. Enter a Short Name (Single Word)

10. Click *Save Changes*

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Moodle: Part 8 - Setup the Moodle Cron Job

<< [Installing Moodle](#) | [Moodle For Windows](#) | [LDAP Settings](#) >>

1. Open an RDP Connection to the moodle server
2. Open Control Panel
3. Click *Scheduled Tasks*
4. Double Click *Add Scheduled Task*
5. Click *Next*
6. Click *Browse*
7. Browse to the PHP Folder and Select **PHP.exe**
8. Click *Open*
9. Enter *MoodleCron* as the name
10. Select *Daily* as the schedule
11. Click *Next*
12. Select 12:00AM as the start time
13. Select *Every Day*
14. Set Start date as today
15. Click *Next*
16. Enter the Username
17. Enter and confirm the password
18. Click *Next*
19. Check the *Open advanced Properties*
20. Click *Finish*

1. In the run field append the following to the end of the php.exe program -f d:\moodle\admin\cron.php
2. Click the *Schedule* tab
3. Click the *Advanced*

1. Check *Repeat task*
2. Set the job to run every 30 minutes
3. Set the duration to 23 hours and 59 minutes
4. Click *OK*

4. Click *OK*
5. Right Click the new task
6. Select *Run*
7. Once complete check the *Last Result* Column for an error code of 0x0 which mean the job ran successfully

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Moodle: LDAP Server Settings

<< [Setup the Moodle Cron Job](#) | [Moodle For Windows](#) | >>

Navigate to: **Users > Authentication > LDAP server**

NOTE: *BLANK* indicates the field should be left empty

Field	Setting
Host URL	192.168.3.253;192.168.15.253
Version	3
LDAP Encoding	utf-8
Hide Passwords	Yes
Distinguished Name	CN=Moodle Service,OU=Moodle,OU=Services and Applications,DC=st-thomasmore,DC=walsall,DC=gov,DC=uk
Password	
User Type	MS ActiveDirecotry
Contexts	dc=st-thomasmore,dc=walsall,dc=gov,dc=uk
Search Subcontexts	Yes
Dereference aliases	No
User Attribute	sAMAccountName
Member Attribute	<i>BLANK</i>
Member Attribute uses dn	<i>BLANK</i>
Object Class	<i>BLANK</i>
Force Change Password	No
Use Standard Change Password	No
Password Format	Plain Text
Password-Change URL	<i>BLANK</i>
Expiration	No
Expiration Warning	10
Expiration Attribute	<i>BLANK</i>
Grace Logins	No
Grace Login	<i>Blank</i>
Create Users Externally	No
Context for new users	<i>BLANK</i>
Creators	CN=Staff,OU=Staff - STAFF,DC=st-thomasmore,DC=walsall,DC=gov,DC=uk

Remove ext user	Keep Internal
Enable	No
Subnet	192.168.0.0/22
MS IE fast Path	Yes

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