

Installing PHP 8.1.12 for Windows IIS 10

Download the Non-Threadsafe x64 (64-bit) version of PHP 8.1.12 (or latest version) from here <https://windows.php.net/download#php-8.1>

Unblock the Zip File (Properties - Clear Check Box - "This file came from another computer and is blocked . . . etc" Click OK.

Unzip the Zip File to php_8_1

Using Windows file explorer, copy and paste the "php_8_1" directory (including its contained files and subdirectories) to your new and separate PHP path, such as c:\php_8_1

Using Notepad++ or similar advanced text editor, in the root of the php_8_1 directory, find and open the file "php.ini-production" and save as a new file named "php.ini" without the quotes.

Here is a snapshot of the Windows PHP8 download page which also lists the other requirements such as the Visual C++ Redistributable that must be installed on the Windows server system.

The screenshot shows the 'windows.php.net/download#php-8.1' page. It includes a sidebar with information about PHP for Windows, PECL extensions, and version selection. The main content area is titled 'Binaries and sources Releases' and contains a dropdown menu to select an option for direct access. Below this, it lists 'PHP 8.2' (no release) and 'PHP 8.1 (8.1.12)'. For PHP 8.1, it provides links to download source code (25.37MB) and tests package (15.15MB). It then lists two VS16 x64 builds: 'Non Thread Safe' (2022-Oct-25 19:03:48) and 'Thread Safe' (2022-Oct-25 18:54:50). Each build has a list of download options (Zip, Debug Pack, Development package) with their respective sizes and SHA256 hashes.

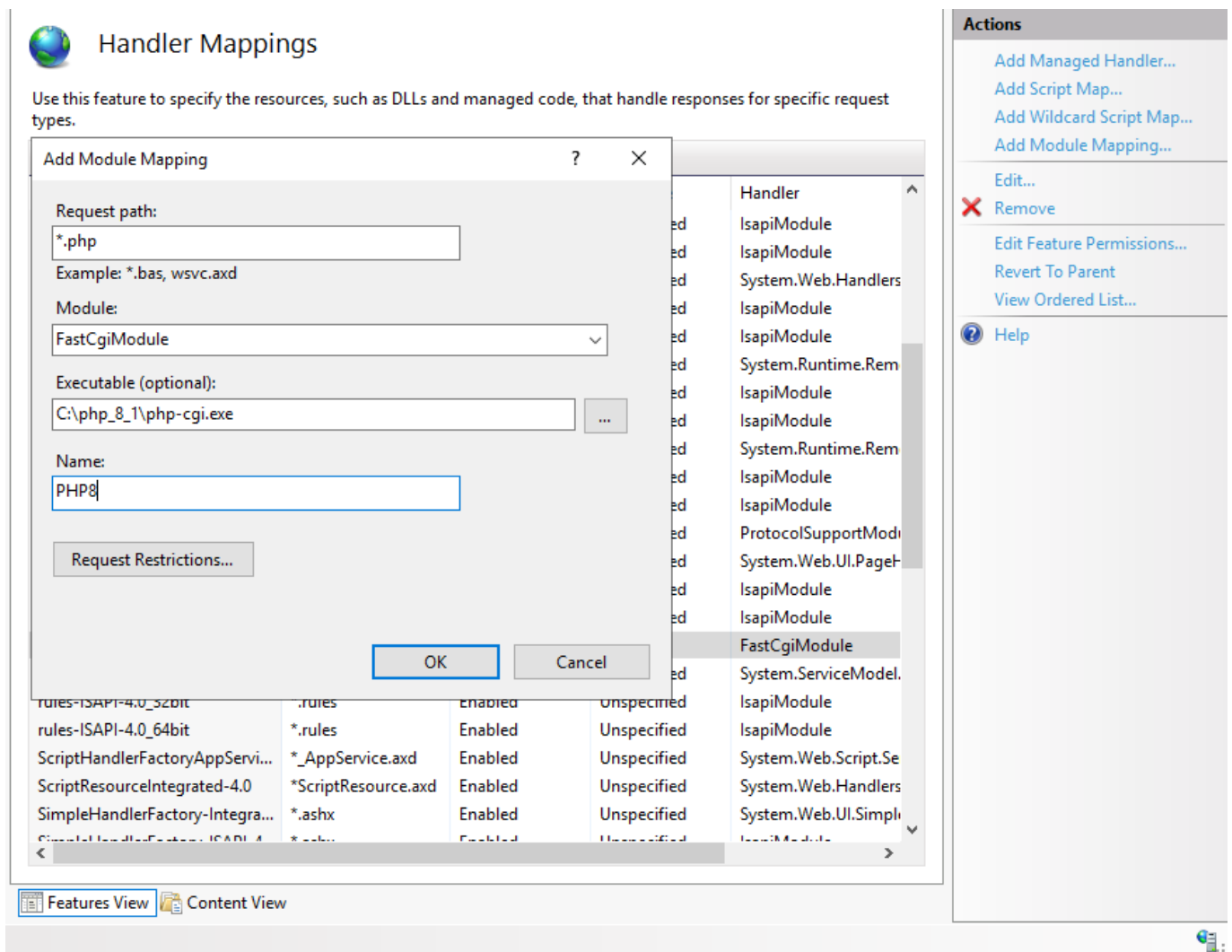
Make Sure that you have installed on your Windows Server system the Visual Studio C++ Redistributable 2015-2019 X64 (or x86 32-bit as applicable). To Check, in the Windows search (bottom left of screen next to START), type “Control Panel” and Click the hit to open it, and then open “Programs and Features” and then on the left click the link for “Turn Windows Features on or off.” Check from the resulting list whether VS C++ 2015-2019 x64 is installed.

Configure Handler Mappings for FastCGI Module in IIS Manager

1. Start IIS Manager by clicking on Start, Programs, Administrative Tools, and then Internet Information Services (IIS) Manager.
2. From the IIS Manager, click on the hostname of your server in the Connections panel on the left.
3. Double-click on the Handler Mappings icon. Insert a screen capture here depicting IIS and

handler mappings

- From the Handler Mappings Actions panel, click on Add Module Mapping.
- Type the following information into the appropriate text boxes, and then click OK. Request path: *.php then Module : FastCGI module then Executable: C:\php_8\php-cgi.exe then Name: FastCGI
- Click OK, and then click Yes.



Configure the php.ini File

- In the c:\php_8_1 folder, open the php.ini-production file using a good text editor like Notepad++ and then "save as" the contents of this file using the new file name "php.ini" and then close (x) both the php.ini-production file (tab) and the new php.ini file (tab) from within Notepad++.
- Re-open the php.ini file using Notepad++ text editor and then un-comment and modify certain settings within php.ini as follows:
- Set fastcgi.impersonate = 1 ;REMARK FastCGI under IIS supports the ability to impersonate security tokens of the calling client. This allows IIS to define the security context that the request runs under.
- Set cgi.fix_pathinfo = 0 ;REMARK The cgi.fix_pathinfo provides PATH_INFO/PATH_TRANSLATED support for Common Gateway Interface (CGI). Setting this to 1 will cause PHP CGI to fix its paths to conform to the specification.
- Set cgi.force_redirect = 0
- Set open_basedir = a path pointing to a folder or network path where the content of the Web

site(s) is located. (Such as c:\hostdata), or just leave it commented like this ";open_basedir =" without the quotes

7. Set extension_dir to point to a location where PHP extensions reside. This is typically extension_dir = ".\ext" However, per remarks in the "php.ini-production" file in both PHP7 and PHP8 it says for "Windows" set it instead as follows: extension_dir = "ext"
8. Set error_log="C:\php_errors.log" ;REMARK This can help with troubleshooting. Alternatively, set **error_log = "c:\php\logs\errors_log"** and make a new sub-folder in c:\php named "logs" and grant the sub-folder "logs" full control write access for both IUSR and IIS_USERS.
9. Enable the required PHP extension by un-commenting the appropriate lines within the extensions section of the php.ini file. See a further discussion of which extensions to enable.

Enable Extensions in the php.ini file for PHP 8

Using Notepad++ or similar text editor, find and edit the php.ini file to enable extensions. Make sure that the applicable/corresponding php_*.dll file for the extension that you wish to activate is still available within the latest php8/ext/ directory

See the following screen snippet for examples:

```
929 extension=bz2
930 ; REM ENABLED curl ON PHP8 INSTALLATION
931 extension=curl
932 ;extension=ffi
933 ; REM ENABLED ftp ON PHP8 INSTALLATION
934 extension=ftp
935 ; REM ENABLED fileinfo ON PHP8 INSTALLATION
936 extension=fileinfo
937 ; REM ENABLED gd ON PHP8 INSTALLATION
938 extension=gd
939 ;extension=gettext
940 ;extension=gmp
941 ; REM ENABLED php_intl.dll ON INSTALLATION
942 extension=intl
943 ; REM ENABLED imap ON PHP8 INSTALLATION
944 extension=imap
945 ;extension=ldap
946 ; REM ENABLED mbstring ON PHP8 INSTALLATION
947 extension=mbstring
948 ;extension=exif ; Must be after mbstring
949 ; REM ENABLED mysqli on PHP8 INSTALLATION
950 extension=mysqli
951 ;extension=oci8_12c ; Use with Oracle 12c
952 ;extension=oci8_19 ; Use with Oracle 19c
953 ;extension=odbc
954 ; REM ENABLED openssl ON PHP8 INSTALLATION
955 extension=openssl
956 ;extension=pdo_firebird
957 ; REM ENABLED pdo_mysql ON PHP8 INSTALLATION
958 extension=pdo_mysql
959 ;extension=pdo_oci
960 ;extension=pdo_odbc
961 ; REM ENABLED pdo_pgsql ON PHP8 INSTALLATION
962 extension=pdo_pgsql
963 ;extension=pdo_sqlite
964 ;extension=pgsql
965 ;extension=shmop
966
967 ; The MIBS data available in the PHP distribution
968 ; See https://www.php.net/manual/en/snmp
969 ;extension=snmp
970
971 ; REM ENABLED soap ON PHP8 INSTALLATION
972 extension=soap
973 ;extension=sockets
974 ;extension=sodium
975 ;extension=sqlite3
976 ;extension=tidy
977 ; REM ENABLED xsl ON PHP8 INSTALLATION
978 extension=xsl
```

Enable File Uploads in php.ini file for PHP 8

Use a file editor like Notepad++ to edit the php.ini file.

By default file uploads are enabled.

file_uploads = On

See the following screen snippet for examples of extensions to enable:

```
846 ;;;;;;;;;;
847 ; File Uploads ;
848 ;;;;;;;;;;
849
850 ; Whether to allow HTTP file uploads.
851 ; https://php.net/file-uploads
852 file_uploads = On
853
854 ; Temporary directory for HTTP uploaded files (will use system default if not
855 ; specified).
856 ; https://php.net/upload-tmp-dir
857 ;upload_tmp_dir =
858 ; REM CONFIGURED PHP 8 UPLOADS DIRECTORY AND ADDED \temp\uploads FOLDERS AND ENABLED IUSR WRITE PERMISSIONS ON "uploads" DIRECTORY
859 upload_tmp_dir="c:\php_8_1\temp\uploads"
860
861 ; Maximum allowed size for uploaded files.
862 ; https://php.net/upload-max-filesize
863 ; REM INSERTED ";" TO DISABLE NEXT LINE WITH 2M LIMIT AND INSTEAD INSERTED 750M LIMIT ON SECOND LINE
864 ; upload_max_filesize = 2M
865 upload_max_filesize = 750M
866
867 ; Maximum number of files that can be uploaded via a single request
868 ; REM DISABLED 20 ON NEXT LINE AND INSERTED AND ENABLED 60 SECOND LINE
869 ;max_file_uploads = 20
870 max_file_uploads = 60
871
```

From:
<https://installconfig.com/> - Install Config Wiki

Permanent link:
https://installconfig.com/doku.php?id=installing_php_8_1_12_windows_iis_10&rev=1667074181

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