

NuSphere PhpExpress 3.0 User Guide

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Errors, Omissions and Suggestions

NuSphere spares no effort in preparation and inspection of this User Guide. In an unlikely event should you discover any error or if you have any suggestions or comment, please don't hesitate to contact us using Contact Us form at http://www.nusphere.com/contact_us

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1 Overview of NuSphere PhpExpress

PhpExpress is NuSphere Free PHP loader and accelerator that provides support for encoded files and also speeds up the execution of regular PHP files.

Please note that if you are using PHP files encoded with NuSphere NuCoder PhpExpress is required to be installed on the server.

This is how PhpExpress works:

- When PHP interpreter executes any PHP script it first compiles the script into bytecodes. However NuCoder produces PHP files that have been already compiled into bytecodes.
- PhpExpress loads encoded PHP scripts directly into PHP engine saving time and boosting performance of PHP interpreter
- PhpExpress also implements caching for PHP engine and accelerates execution process even if PHP Script is not encoded

1.1 Obtaining PhpExpress

PhpExpress can be downloaded from NuSphere website and distributed Free Of Charge without limitations. Every NuCoder installation also comes with PhpExpress.

How to download PhpExpress from NuSphere Website

You can download the archive containing PhpExpress from Free Downloads area of your NuSphere Account. To do that:

- Create NuSphere Account and login
- Click on Free Downloads
- Follow the link to NuSphere PhpExpress for the Operating System of your server to start the download process
- Save `NuSphere-PhpExpress-3.0.zip` file for Windows or `NuSphere-PhpExpress-3.0.tag.gz` for Linux/Unix to the disk
- For windows – using WinZip or similar program unzip `NuSphere-PhpExpress-3.0.zip` in the directory of your choice
- For Linux/Unix - use the following command to unfold `NuSphere-PhpExpress-3.0.tag.gz`:

```
tar -vzxvf Nusphere-PhpExpress-3.0.tag.gz
```
- The uncompressed archive will create a directory “NuSphere-PhpExpress” with `phpexpress-php-x.x.dll` files for Windows and many archives with `phpexpress-php-x.x.so` files for Linux/Unix operating systems (where x.x is the version of PHP compatible with the module)

1.2 How to install NuSphere PhpExpress

NuSphere PhpExpress is a PHP extension, which makes it easy to install and deploy. To install PhpExpress:

- Copy `phpexpress-php-x.x.dll` or `phpexpress-php-x.x.so` into the PHP extensions directory specified in `php.ini` file. We assume it is `c:\php\ext` under Windows or `/usr/lib/php/modules` under Linux/Unix. Please consult with `phpinfo()` page to make sure which particular directory is configured for your PHP.
- Open `php.ini` file for editing
- Add the following line:

`zend_extension_ts=c:\php\ext\phpexpress-php-x.x.dll` if you are deploying on Windows, or

`zend_extension=/usr/lib/php/modules/phpexpress-php-x.x.so` if you are deploying on Unix, Linux or Mac OS operating systems (where `x.x` is the version of PHP compatible with the module).

NOTE: if you're using php 5.3 or higher, you have to use `zend_extension` instead of `zend_extension_ts`

- Stop and start Apache if you are running PHP as Apache module or stop and start W3SVC service if you're using PHP under IIS.
- Execute a script with `phpinfo()` function call and make sure that PhpExpress is properly installed

Once PhpExpress is installed on the server, you can execute PHP Scripts encoded with NuCoder as well as regular (not encoded) PHP scripts. In both cases you will gain an improved performance in the execution of the scripts.

1.3 How to monitor PHP Cache implemented by NuSphere PhpExpress

PhpExpress accelerates execution of PHP scripts by caching them and avoiding unnecessary compilation. You can view and control PHP Cache created by PhpExpress with a single function call to the PHP function `phpexpress()` provided by PhpExpress PHP extension. `phpexpress()` produces the output similar to `phpinfo()` with the user Interface to administer PhpExpress cache. The output of `phpexpress()` is illustrated below:

NuSphere PhpExpress Version 3.0.0



System	Windows NT XDMITRI 5.1 build 2600 (Windows XP Professional Service Pack 3) i586
PHP version	5.3.2
PhpExpress version	3.0.0 (build 3013)
Debug build	no
Thread safety	enabled
Server API	Apache 2.0 Handler
Server software	Apache/2.2.11 (Win32) DAV/2 mod_ssl/2.2.11 OpenSSL/0.9.8k PHP/5.3.2
Configuration	local, win32cs, threading
Memory types	local, win32
Semaphore types	win32cs, win32mutex
PID	4084
Shared memory ID	phpexpress_3.0.0_shm.apache2handler.5.3.2
Cache owner	4084
Shared memory accessible	yes

Host ID(s)	H5A8B-844DD8-27CFDDE7AE H5A8C-3771C7-3C26D29629
------------	--

Option	State/Value
Cache enabled	<input checked="" type="radio"/> On <input type="radio"/> Off
Memory size	8,384,424 Bytes
Memory available	8,384,136 Bytes
Memory allocated	288 Bytes
Cached scripts	1
Hit ratio	99.00
Scheduled for removal	0

Cached scripts	Hits	Last hit	Locks	Modification time	Size	Reloads
C:\Program Files\NuSphere\TechPlat\apache\htdocs\pe.php	100	Wed Nov 10 11:09:09 2010	1	Sun May 30 10:50:30 2010	276	0

Please note that PHP caching is only enabled when PHP is running as an extension of the Web Server – dll on windows or shared object on Linux/Unix/Mac Operating Systems. Caching of PHP scripts when PHP is running in command-line mode is not useful and therefore disabled.

2 Deploying Encoded PHP files with NuSphere PhpDock

NuSphere PhpDock is a unique PHP deployment solution, which enables you to deploy any PHP web application as a Stand Alone Windows Desktop application w/o any changes in the code. Starting with version 1.6 PhpDock fully supports deployment of encoded PHP files same way it does it with regular PHP and HTML source files. No additional action is required.