

EWF Deployment

WIP= work in progress

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Apache on Windows

Apache Install

Check the correct version (Win 32 or Win64)

[Apache Version](#): Apache 2.4.4

Windows: <http://www.apachelounge.com/download/>

Deploying EWF CGI

[CGI overview](#)

A new process is started for each HTTP request. So if there are N request to the same CGI program, the code of the CGI program is loaded into memory N times.

When a CGI program finished handling a request, the program terminates.

1. Build EWF application

`ec -config app.ecf -target app_cgi -finalize -c_compile -project_path .`

Note: change app.ecf and target app_cgi based on your own configuration.

2. Copy the generated exe file and the www content

Copy the app.exe and the folder "www" into a folder served by apache2, for example under <APACHE_PATH>/htdocs.

<APACHE_PATH> = path to your apache installation

Edit httpd.conf under c:/<APACHE_PATH>/conf

```
DocumentRoot "c:/<APACHE_PATH>/htdocs"
```

```
<Directory "c:/<APACHE_PATH>/htdocs">
```

```
    AllowOverride All    --
```

```
    Require all granted -- this is required in Apache 2.4.4
```

```
</Directory>
```

Check that you have the following modules enabled

```
LoadModule cgi_module modules/mod_cgi.so
```

```
LoadModule rewrite_module modules/mod_rewrite.so
```

Tip:

To check the syntax of your httpd.conf file. From command line run the following

```
$>httpd -t
```

[.htaccess CGI](#)

<http://perishablepress.com/stupid-htaccess-tricks/>

```
Options +ExecCGI +Includes +FollowSymLinks -Indexes
```

```
AddHandler cgi-script exe
```

```
<IfModule mod_rewrite.c>
```

```
    RewriteEngine on
```

```
    RewriteRule ^$ $service [L]
```

```
RewriteCond %{REQUEST_FILENAME} !-f
RewriteCond %{REQUEST_FILENAME} !-d
RewriteCond %{REQUEST_URI} !$service
RewriteRule ^(.*)$ $service/$1
```

```
RewriteRule .* - [E=HTTP_AUTHORIZATION:%{HTTP:Authorization},L]
</IfModule
```

Replace \$service with the name of your executable service, for example app_service.exe

Deploying EWF FCGI

To deploy FCGI you will need to download the mod_fcgi module.

You can get it from here <http://www.apachelounge.com/download/>

FCGI overview

FastCGI allows a single, long-running process to handle more than one user request while keeping close to the CGI programming model, retaining the simplicity while eliminating the overhead of creating a new process for each request. Unlike converting an application to a web server plug-in, FastCGI applications remain independent of the web server.

1. Build EWF application

```
ec -config app.ecf -target app_fcgi -finalize -c_compile -project_path .
```

Note: change app.ecf and target app_fcgi based on your own configuration.

2. Copy the generated exe file and the www content

Copy the app.exe and the folder "www" into a folder served by apache2, for example under <APACHE_PATH>/htdocs.

<APACHE_PATH> = path to your apache installation

Edit httpd.conf under c:/<APACHE_PATH>/conf

```
DocumentRoot "c:/<APACHE_PATH>/htdocs"
```

```
<Directory "c:/<APACHE_PATH>/htdocs">
```

```
    AllowOverride All    --
```

```
    Require all granted -- this is required in Apache 2.4.4
```

```
</Directory>
```

Check that you have the following modules enabled

```
LoadModule rewrite_module modules/mod_rewrite.so
```

```
LoadModule fcgid_module modules/mod_fcgid.so
```

By default Apache does not comes with fcgid module, so you will need to download it, and put the module under Apache2/modules

[.htaccess FCGI](#)

<http://perishablepress.com/stupid-htaccess-tricks/>

```
Options +ExecCGI +Includes +FollowSymLinks -Indexes
```

```
<IfModule mod_fcgid.c>
```

```
    AddHandler fcgid-script .ews
```

```
    FcgidWrapper $FULL_PATH/$service .ews
```

```
</IfModule>
```

```
<IfModule mod_rewrite.c>
```

```
    RewriteEngine on
```

```
    RewriteBase /
```

```
    RewriteRule ^$ service.ews [L]
```

```
    RewriteCond %{REQUEST_FILENAME} !-f
```

```
    RewriteCond %{REQUEST_FILENAME} !-d
```

```
    RewriteCond %{REQUEST_URI} !=/favicon.ico
```

```
    RewriteCond %{REQUEST_URI} !service.ews
```

```
    RewriteRule ^(.*)$ service.ews/$1
```

```
RewriteRule .* - [E=HTTP_AUTHORIZATION:%{HTTP:Authorization},L]  
</IfModule>
```

Replace \$service with the name of your executable \$service, for example app_service.exe
You will need to create an service.ews file, this file will be located at the same place where you copy your app service executable.

LightHTTPD on Windows

Download <http://en.wlmp-project.net/downloads.php?cat=lighty&type=ssl>