

Automated Post-Production Tests

Overview

You can create tests that EasyApache runs after each build. To do this, create an option module (opt mod) that runs the test.

Option modules are options that advanced administrators can add to the *EasyApache 3* interface (*Home >> Software >> EasyApache 3*). For more information about opt mods, click *Cpanel::Easy Framework POD* on the first *EasyApache 3* interface in WHM, or enter the `/scripts/easyapache --perldoc` command at the command line.

Warning:

It is extremely insecure to access a user's directory as the `root` user during tests. If you wish to access a user's directory during an automated post-production test, assume the identity of that user. cPanel & WHM does **not** provide support for servers that have been successfully attacked as a result of poorly designed tests.

Getting started

To assume another user's identity, run the following command:

```
su $username
```

For example, if you wish to test one of Apache's specific functions, you will need to use the proper Apache `Cpanel::Easy::Apache::$mytest` namespace, where `$mytest` stands for the name of your test file. When you create your test file, make sure that you use the `*.pm` filename extension. You do not need to use the filename extension when you specify your namespace.

Test the functionality of PHP

If you wish to test the functionality of PHP 4 or 5, you will need to use the `Cpanel::Easy::PHP$X:: $mytest` namespace, where `$X` stands for the major version of PHP that you wish to test (4 or 5) and `$mytest` stands for the name of your test file. When you create your test file, make sure that you use the `*.pm` filename extension. You do not need to use the filename extension when you specify your namespace.

Place the test files into the directory that corresponds to the appropriate namespace:

- **For Apache** — `/var/cpanel/easy/apache/custom_opt_mods/Cpanel/Easy/Apache/$mytest.pm`
- **For PHP4** — `/var/cpanel/easy/apache/custom_opt_mods/Cpanel/Easy/PHP4/$mytest.pm`
- **For PHP5** — `/var/cpanel/easy/apache/custom_opt_mods/Cpanel/Easy/PHP5/$mytest.pm`

The following sample shows how you should structure a test file:

```
package Cpanel::Easy::Apache::MyTestXYZ;
our $easyconfig = {
    'name' => 'Add post restart tests for XYZ',
    'note' => 'This option does not alter anything with the build, it only
adds tests to be run after a successful build and restart',
    'step' => {
        '0' => {
            'name' => 'Type A tests',
            'command' => sub {
                my ($easy) = @_;

                # see the post_httpd_restart_tests in Cpanel::Easy source
for examples)
                push @{$
$easy->{'_'}{'post_httpd_restart_tests'} },
```

```

        {
            'name'    => 'A2 support',
            'command' => sub {
                my ( $easy, $is_fatal_boolean_sr ) = @_;

                # do your tests for "A2 support" here
                # if all is well:

return(1, 'ok');

                # if not report it:
# return(0, q{maketest suitable error message [_1]}, 'here');
                # to abort the build (YOU PROBABLY DO NOT WANT
TO USE THIS)          # ${ $is_fatal_boolean_sr } = 1;
# return(0, q{maketest suitable error message [_1]}, 'here');
            },
            {
                'name' => 'A5 support',
                ...
            },
        },
    },
    '1' => {
        'name'    => 'Type B tests',
        'command' => sub {
            my ($easy) = @_;
            push @{$easy->{'_'}}{'post_httpd_restart_tests'},
            ...
        },
    },
},

# doesn't make much sense to add these tests unless we have the
functionality 'depends' => {
    'optmods' => {
        'Cpanel::Easy::Apache::XYZ' => 1, # This needs Apache's XYZ to
be available    },
    },
};

```

```
1;
```

How to skip your custom option modules and post-production tests

You are able to skip your custom option modules and post-production tests before Apache is built. This can be useful if you need to troubleshoot an issue.

To skip your custom option modules, perform the following steps at the command line:

1. Run the following command before build time:

```
/scripts/easyapache --skip-custom-optmods
```

2. Rebuild Apache with the `/scripts/easyapache` script.

If you prefer to use WHM's *EasyApache 3* interface to skip these option modules, perform the following steps:

1. Click *Help* on the first *EasyApache 3* interface.
2. Select the *Do not build any opt mods that are not included in ea3 core* box.
3. Click *Submit*.
4. Return to the previous interface and build the profile.

If the build completes successfully, you will then need to reconfigure or omit the option modules.