

EasyApache 4 Interface

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Overview

This interface allows you to update and install Apache, PHP, and other components of your web server.

Note:

This interface does **not** display the exact package names. The actual package names on the system start with the `ea-` prefix.

EasyApache 4 Home interface

When you open the *EasyApache 4* interface, the system displays the EasyApache 4 *Home* interface. The *Home* interface contains the following sections:

- *Run system update* – This link redirects you to the *System Update* interface (*WHM >> Home >> Software >> System Update*) and allows you to update the RPMs on your system.
- *Currently Installed Packages* — This section displays your system's current configuration. Click *View all packages* to see the currently installed packages, *Customize* to make changes, or *Convert to profile* to save the currently-installed packages as a profile.
- *Available Profiles* — This section displays all of the currently available profiles on your system.
- *Upload a profile* – Click *Upload a profile* to upload a custom profile. For more information, read our [EasyApache 4 - Create a Profile](#) documentation.

Convert to profile

To convert your configuration into a custom profile, perform the following steps:

1. Click *Convert to profile* in the *Currently Installed Packages* section.
2. Enter the name of your profile. The EasyApache 4 interface displays this name.

Note:

To overwrite an existing profile of the same name, select the *Overwrite an existing profile* checkbox.

3. Enter the file name of your profile. Do **not** include the `.json` extension.
4. Enter a description for your profile, if desired. The interface will display this description.
5. Enter a comma-separated list of tags, if desired.
6. Click *Convert*.

The system saves the new profile to the `/etc/cpanel/ea4/profiles/custom` directory.

Save as profile

You can save a new profile at any point during the EasyApache 4 configuration process. To save your configuration as a profile, perform the following steps:

1. Click *Save as profile* during the EasyApache 4 configuration process.

2. Enter the name of your profile. The EasyApache 4 interface displays this name.

Note:

To overwrite an existing profile of the same name, select the *Overwrite an existing profile* checkbox.

3. Enter the file name of your profile. Do **not** include a `.json` extension.

Note:

You **cannot** enter a file name of `.` or `..`, or a file name that contains the `/` or NUL character.

4. Enter a description for your profile, if desired. The interface will display this description.
5. Enter a comma-separated list of tags, if desired.
6. Click *Save*.

The system saves the new profile to the `/etc/cpanel/ea4/profiles/custom` directory.

Upload a profile

Note:

Profile files **must** use a JSON format. The system will **not** display files in any other format. For more information, read our [EasyApache 4 - Create a Profile](#) documentation.

From a local file

To upload a custom profile from a local file, perform the following steps:

1. Click *Upload a profile*.
2. Click *Browse* and select the profile that you wish to upload.

Note:

To overwrite an existing profile of the same name, select the *Overwrite an existing profile* checkbox.

3. Click *Upload*.
4. The system will upload your file and refresh the EasyApache 4 interface.

From a URL

To upload a file from a URL, perform the following steps:

1. Click *Retrieve from URL*.
2. Enter the URL that you wish to upload in the text box.
3. Click the checkmark to fetch the URL's contents.
4. Click *Upload*.
5. The system will upload your file and refresh the EasyApache 4 interface.

Install a preconfigured profile

To install a preconfigured profile **without** any changes, perform the following steps:

1. Select the profile that you wish to use and click *Provision*.
2. The interface displays the *Review* section. The system compares your current profile to the selected profile and lists the following information:
 - The packages that the system will install.
 - The packages that the system will upgrade.
 - The packages that the system will uninstall.
 - Unaffected packages.
3. To accept the changes, click *Provision*.
4. When the provision process completes, click *Done*.

Customize a profile

To install a preconfigured profile with your own customizations, perform the following steps:

Notes:

- Profiles act as templates and do **not** save your changes. When you provision a customized profile, your changes affect the *Currently Installed Packages* **only**. To create a custom profile, either click *Upload a profile* and select the profile that you wish to upload or click *Save as profile* during the customization process. For more information about custom profiles, read our [EasyApache 4 - Create a Profile](#) documentation.
- The EasyApache 4 interface provides a variety of recommendations about the packages that you can select. For more information about the recommendation system, read the [Recommendation format](#) section below.

1. Select the profile that you wish to use and click *Customize*.
2. Select the MPM module that you wish to install. The interface displays any existing conflicts. Click *Yes* to resolve any conflicts or *No* if you do not wish to make the changes.

Notes:

- You can **only** use one Apache MPM module at a time.
- To navigate between customization options, click that option's link in the left side of the interface.

3. Click *Next*. The available Apache modules will appear.
4. Select the Apache modules that you wish to install. You can also search for your desired packages.
5. Click *Next*. The available PHP versions will appear.
6. Select the PHP versions that you wish to install. You can also search for your desired packages.

Note:

This interface **only** installs cPanel & WHM-provided PHP packages. If you wish to install an alternate, vendor-provided version of PHP, you **must** use yum. For more information, read our [How to Locate and Install a PHP Version or Extension](#) and [Yellowdog Updater, Modified \(yum\) Basics](#) documentation.

7. If you select a new version of PHP, the system will detect the PHP extensions that already exist for other installed versions of PHP. You can select the following options:

Notes:

- In the following examples, `PHP ##` represents the PHP version that you selected.
- If you do **not** select one of the following options, the system **only** installs the selected PHP version and its required extensions.

- *PHP ## and Extensions* — This option installs the selected PHP version and all detected extensions.
- *PHP ## only* — This option **only** installs the PHP version and its required extensions.
- *Edit* — This option displays the proposed PHP extensions. You can deselect any extensions that you do not wish to install.

8. Click *Next*. The available PHP extensions will appear.
9. Select the PHP extensions that you wish to install. Select the checkbox for a version of PHP if you wish to filter your results. You can also search for an extension by name.
10. Click *Next*. The available Ruby RPMs will appear.
11. Select the Ruby RPMs that you wish to install.

Note:

If you enable the `mod_passenger` module, the system will disable [Apache's mod_userdir](#) module.

12. Click *Next*. The available additional packages will appear.
13. Select the additional packages that you wish to install.

Note:

This section **only** displays additional packages if any exist.

14. Click *Next*. The *Review* section will appear.
15. Review your selections to confirm the changes. The *Review* section displays the following information:
 - The packages that the system will install.
 - The packages that the system will upgrade.
 - The packages that the system will uninstall.
 - Unaffected packages.
16. To accept the changes, click *Provision* to start the build process.

17. When the provision process completes, click *Done*.

Command line changes

You can perform some changes on the command line with EasyApache 4. To install or uninstall packages manually, you can use `yum`. For more information, read our [Yellowdog Updater, Modified \(yum\) Basics](#) documentation.

We also provide some tools to provision profiles in our [ea-cpanel-tools RPM](#).

Recommendation format

The system stores the recommendations that it provides in an RPM inside the `ea-cpanel-tools` package, which creates directories and files in the `/etc/cpanel/ea4/recommendations/` directory. The RPM contains JSON-formatted files for each recommendation, and places each file in a directory with the same name as the corresponding package. The recommendation file will resemble the following example:

```
{
  "on" : "add",
  "name" : "PHP DSO",
  "desc" : "PHP DSO runs as the user by default. In a shared hosting
environment, this is a security issue.",
  "level" : "danger",
  "url" : "https://www.example.com",
  "options" : [
    {
      "recommended" : true,
      "text" : "We strongly recommend that you install one of the
following packages unless this is a single-user system:",
      "level" : "success",
      "items" : [
        "ea-apache24-mod_ruid2",
        "ea-apache24-mod_mpm_itk"
      ]
    },
    {
      "recommended" : false,
      "text" : "If you use suPHP, you will add some security, but may
experience performance issues on your server.",
      "level" : "warning"
    }
  ]
}
```

The JSON file contains the following fields:

Field	Description	Accepted values
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on	<p>Required.</p> <p>The action that triggers a recommendation.</p> <div data-bbox="586 231 1008 352" style="border: 1px solid #f9e79f; padding: 5px;"> <p>Note: You can only use this field in the top level of the JSON file.</p> </div>	<ul style="list-style-type: none"> • add • remove
desc	<p>The package's description.</p> <div data-bbox="586 443 1008 564" style="border: 1px solid #f9e79f; padding: 5px;"> <p>Note: You can only use this field in the top level of the JSON file.</p> </div>	A valid string.
url	<p>A URL that provides more information.</p> <div data-bbox="586 653 1008 795" style="border: 1px solid #f9e79f; padding: 5px;"> <p>Note: You can use this field in both the top level of the JSON file and the <code>options</code> hash.</p> </div>	A valid URL.
name	<p>Required.</p> <p>The package's label.</p> <div data-bbox="586 936 1008 1058" style="border: 1px solid #f9e79f; padding: 5px;"> <p>Note: You can only use this field in the top level of the JSON file.</p> </div>	A valid string.
options	<p>Required.</p> <p>The options to resolve a recommendation.</p> <div data-bbox="586 1192 1008 1314" style="border: 1px solid #f9e79f; padding: 5px;"> <p>Note: You can only use this field in the top level of the JSON file.</p> </div>	An array of hashes that contains the <code>level</code> , <code>items</code> , <code>recommended</code> , <code>text</code> , and <code>url</code> fields.
items	<p>An array of information that corresponds with the <code>text</code> field.</p> <div data-bbox="586 1428 1008 1549" style="border: 1px solid #f9e79f; padding: 5px;"> <p>Note: You can only use this field in the <code>options</code> hash.</p> </div>	A valid array.

recommended	<p>The type of recommendation that the interface will return.</p> <div style="border: 1px solid #f0e68c; padding: 5px;"> <p>Notes:</p> <ul style="list-style-type: none"> This field determines which icon displays next to the text in the interface. If you do not include this field, then the interface will not display an icon. You can only use this field in the <code>options</code> hash. </div>	<ul style="list-style-type: none"> true false
text	<p>Required.</p> <p>The text returned in the user interface.</p> <div style="border: 1px solid #f0e68c; padding: 5px;"> <p>Note:</p> <p>You can only use this field in the <code>options</code> hash.</p> </div>	A valid string.
level	<p>The level that triggers a recommendation to appear, based on Bootstrap 3 alert components.</p> <div style="border: 1px solid #f0e68c; padding: 5px;"> <p>Notes:</p> <ul style="list-style-type: none"> You can use this field in both the top level of the JSON file and the <code>options</code> hash. This field's value only affects the UI if set to the <code>danger</code> level. </div>	<ul style="list-style-type: none"> primary success info warning danger

Additional documentation

Suggested documentation [For cPanel users](#) [For WHM users](#) [For developers](#)

- [EasyApache 4](#)
- [EasyApache 4 FAQ](#)
- [Apache](#)
- [PHP Home](#)
- [MultiPHP INI Editor for cPanel](#)
- [MultiPHP Manager for cPanel](#)
- [The rebuild_phpconf Script](#)
- [How to Limit a User's Available PHP Versions in the MultiPHP Manager](#)
- [EasyApache 4 Interface](#)
- [PHP-FPM User Pools](#)
- [PHP-FPM Code and FileSystem Layout for EasyApache 4](#)
- [WHM API 1 Functions - php_set_vhost_versions](#)
- [WHM API 1 Functions - ea4_metainfo](#)
- [UAPI Functions - LangPHP::php_get_impacted_domains](#)

- WHM API 1 Functions - `ea4_pre_migrate_check`
- WHM API 1 Functions - `php_fpm_config_get`