

cPanel Plugins - Pluggable Statistics Modules

Guide to cPanel Plugins

The dynamicui Files

Add Plugins (11.42 and earlier)

Add Plugins (11.44 and later)

Pluggable Statistics Modules

Uninstall Plugins

Introduction

Pluggable statistics modules can display custom statistics items in the cPanel interface.

Important:

We **strongly** recommend that you test this feature on any themes that you support (for example, *Basic*, *Dark*, *Light*, and *Retro*).

Module behavior

Before you create a custom statistics module, make certain that you understand how the system interacts with custom statistics modules:

- If any item in a module fails, this function will **not** display any items from that module. However, failure in one module will not prevent the display of other modules.
- Custom data modules execute on every cPanel *Home* interface page load.
 - The interface loads custom modules after the initial page load.
 - The system does not cache the data that custom modules poll.

The presence of the `/var/cpanel/perl/Cpanel/ResourceUsage/Custom` directory triggers each `ResourceUsage` call. Every time that a user loads or refreshes the cPanel *Home* interface, the system **must** open and list the contents of that directory. If no modules exist in the directory, you should delete the directory to avoid the extra disk load.

Create the custom module

To create a custom statistics module, create the `/var/cpanel/perl/Cpanel/ResourceUsage/Custom/modulename.pm` file, where `modulename` represents your new module's name.

Notes:

- Create a **unique** module name.
- The system can process multiple custom modules.

Your custom module's contents should resemble the following example:

```
package
Cpanel::ResourceUsage::Custom::modulena
me;

use strict;
use warnings;

# This feature expects each custom
module to contain a "get_usages"
function
# that returns an array of hashes, with
each hash matching the parameters below:

sub get_usages {
    my ($username) = @_;
```

cPanel Plugins

About cPanel Plugins

- *cPanel Pluggable Statistics Module Configuration at a Glance*

```

        return (
            {
                id            => '...',
                #string, not displayed
                description => '...',
                #string, displayed
                usage        => ...,
                #nonnegative integer
                maximum      => ...,
                #optional, nonnegative integer
                formatter    =>
                'format_bytes', #optional; if defined,
                the value is passed through the
                specified formatter for display
                app          => '...',
                #optional, to link to a cPanel interface
                before      => '...',
                #optional, to display immediately before
                another entry
            },
            {
                id            => '...',
                #string, not displayed
                description => '...',
                #string, displayed
                usage        => ...,
                #nonnegative integer
                maximum      => ...,
                #optional, nonnegative integer
                formatter    =>
                'format_bytes_per_second', #optional; if
                defined, the value is passed through the
                specified formatter for display
                url          => '...',
                #optional, to link to a URL
                after       => '...',
                #optional, to display immediately after
                another entry
            },
            # insert any other modules here
            ...
        );

```

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    }
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Parameters

Key	Type	Description	Possible Values	Example
id	string	<p>Required</p> <p>The identifier. The system uses this value to determine the item display order.</p> <ul style="list-style-type: none"> If you create two or more items with the same <code>id</code> value, the last item will display in the interface and this function will ignore the others. You must use a unique <code>id</code> value across all modules. 	<p>ASCII, spaces, and the underscore (<code>_</code>) character.</p> <p>Click to view a list of system id values...</p> <p>The system uses the following default <code>ResourceUsage</code> IDs:</p>	new item id

Related Documentation

- [Guide to cPanel Plugins - Add Plugins to Legacy cPanel Versions](#)
 - [cPanel & WHM version 11.4.2 and earlier requires you to manually add items to the dynamic icui files.](#)

- disk_usage
- cachedmysqldiskusage (MySQL@Disk Usage).
- bandwidth
- addondomains
- subdomains
- aliases
- emailaccounts
- mailinglists
- autoresponders
- forwarders
- emailfilters
- ftpaccounts
- mysql_databases

Notes:

- For each item, you can **only** use the `before` **or** the `after` keys, not both.
- If you create a custom item that uses any of the above `id` key, the custom item will replace the default item.
- When you create a new item, you can enter the item's `id` value as a value for the `before` **or** `after` parameter.

- Guide to cPanel Variables

The Live API system and dynamic interface can access cPanel's global variables.

- Tutorial - Create a New Paper Lantern Interface in PHP

This tutorial uses PHP to create a new cPanel interface for the Paper Lantern theme.

description	<i>string</i>	<p>Required</p> <p>The text to display to users in the interface.</p> <div data-bbox="732 310 870 1388" style="border: 1px solid orange; padding: 5px;"> <p>Note : This function converts all lowercase strings to start case (all words start with a capital letter). For example, a value of new custom stat will display <i>New Custom Stat</i> in the interface.</p> </div>	ASCII, spaces, and the underscore (_) character.	new item description
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- [Tutorial - Add a Link to the cPanel Interface](#) — This tutorial adds an icon that links to an external location to the cPanel interface.
- [Guide to cPanel Plugins - Uninstall Plugins](#) — To uninstall plugins from cPanel & WHM, choose the uninstallation process according to your system's version.

usage	<i>integer</i>	<p>Required</p> <p>The amount of the resource that the item uses.</p> <div data-bbox="732 289 872 911" style="border: 1px solid black; padding: 5px;"> <p>Note : Item s who se u sag e val ues appr oach the m axi mum valu e displ ay at the top of the stati stics bar.</p> </div>	<ul style="list-style-type: none"> • A positive integer. • 0 	1
maximum	<i>integer</i>	<p>The maximum value of the range for the item.</p> <p>The system defaults to unlimited and displays the infinity symbol in the interface () if any of the following conditions are true:</p> <ul style="list-style-type: none"> • You do not include this key. • You do not supply a value. • You enter undef. 	<ul style="list-style-type: none"> • A positive integer. • 0. <div data-bbox="891 1039 1031 1633" style="border: 1px solid black; padding: 5px;"> <p>Note : If you enter a strin g for the m axi mum key inste ad of an integ er, the funct ion will displ ay <i>N</i> <i>aN</i>.</p> </div>	100

formatter	<i>string</i>	<p>Applies units to the usage value based on the specified formatter.</p> <p>If you do not include this key, the system will not display any units to the user.</p>	<ul style="list-style-type: none"> format_bytes — This function will convert the usage value into a storage format (for example, MB or GB). format_bytes_per_second — This function will convert the usage value into a storage format per second (for example, 2048 displays 2 KB/s). <div data-bbox="893 737 1029 1079" style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Important: Any unrecognized value will cause an error.</p> </div>	format_bytes
app	<i>string</i>	<p>A link that will redirect the user to a specific cPanel interface.</p> <p>If you do not include this key, the item does not include a link.</p>	<p>A valid app key in the specified format. For a list of available app keys, run WHM API 1's get_users_links function.</p>	Backups_Home
url	<i>string</i>	<p>A link that will redirect the user to a valid domain.</p> <p>If you do not include this key, the item does not include a link.</p>	<p>A valid URL.</p> <div data-bbox="893 1402 1029 1843" style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>Warning: The URL must contain the https:// or http:// protocol.</p> </div>	https://www.example.com

before	<i>string</i>	<p>Display this item before another item.</p> <div data-bbox="735 226 870 688" style="border: 1px solid black; padding: 5px;"> <p>Note : For each item, you can only use the before or the after key, not both.</p> </div> <p>If you do not supply a value for or include this key, this feature will display these keys after all others.</p>	<p>A valid ResourceUsage or custom item's ID.</p> <p>This value must exactly match the ResourceUsage item's id value or your custom item's id value. Otherwise, the system inserts the item at the default location.</p>	disk_usage
after	<i>string</i>	<p>Display this item after another item.</p> <div data-bbox="735 997 870 1459" style="border: 1px solid black; padding: 5px;"> <p>Note : For each item, you can only use the before or the after key, not both.</p> </div> <p>If you do not supply a value for or include this key, this feature will display these keys after all others.</p>	<p>A valid ResourceUsage or custom item's id.</p> <p>This value must exactly match the ResourceUsage item's id value or your custom item's id value. Otherwise, the system inserts the item at the default location.</p>	cachedmysqldiskusage