

Tutorial - Create an Integration Link

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Introduction

Integration links create a link in a user's cPanel interface. This link can be a simple link to a URL or a link that automatically logs you into an application with an authorization token, such as WHMCS.

The link will appear in a selected cPanel interface group and the user Preferences menu.

Create an integration link

1

Determine the app for integration.

Call the `get_users_links` function to determine the app key of the function that you wish to connect with an application link.

```
https://hostname.example.com:2087/cpses  
s#####/json-api/get_users_links?ap  
i.version=1&user=username
```

2

Create the integration link.

Call the `create_integration_link` function to create the application link.

The link will attempt to send the user to the location in the `autologin_token_url` parameter through an HTTP POST request with the `app`, `token`, `user`, and `subscriber_unique_id` parameters.

The destination server will respond with a JSON-encoded hash with either a `redirect_url` key or the `retry` and `attempt` keys.

- If the response contains `redirect_url`, the system will redirect the user to that URL. (For example, `{"redirect_url": "http://www.whmcs.com/client_area/login/?one_time_user_token_that_expires_in_120_seconds=d41d8cd98f00"}` will send the user to that unique URL.)
- If the response contains `retry` and `attempt`, the system will wait for the `retry` value in seconds for a maximum of 60 seconds and then attempt the call again. The `attempt` value indicates the number of attempts that your system has tried. The system will stop after 3 attempts. (For example, `{"retry": 30, "attempt": 2}` represents the second attempt to connect, and the system will pause the user for 30 seconds before it tries again.)

If the location in the `autologin_token_url` parameter does not respond, does not exist, or that parameter is empty, the link will send the user to the location in the `url` parameter. This is useful if you wish to create a simple link to a documentation site, a playlist of tutorial videos, another helpful website, or enthusiastic motivation from actor Shia Labeouf (<https://www.youtube.com/watch?v=oTz93Y-qeq0>).

Notes:

In this tutorial

Related documentation

- WHM API 1 Functions - update_integration_link_token — This function refreshes the token for an integration link.

Hook

- Tutorial - Create a Custom cPanel Style

- If you create a link with an `app` parameter that already exists, the function will replace the existing link with the newly-created link.
- To rename an integration link, **you** must remove it and then re-create it.

▼ [Click to view examples...](#)

Integration link

```
https://hostname.example.com:2087/cpess#####/json-api/create_integration_link?api.version=1&user=username&implements=support&label=WHMCS+Support+Desk&app=WHMCS_support&autologin_token_url=http://www.example.com/login.cgi&subscriber_unique_id=1234&url=http://www.cpanel.net&token=subway&base64_png_image=iVBORw0KGgoAAAANSUHEUgAAADAAAAAwCAYAAABXAvmHAAAABmJLR0QA%2fwD%2fAP%2bgvaeTAAAAACXBIXMMAAABIAAAAASABGyWs%2bAAALVU1EQVRo3sWZe3BU1R3HP79z793dZAPkBYIg4RUSBKkIEfCNog5WbaWOHevUWttOVXxVtFWctmpb2xGptVot1ken1bbSVsVSxVba8UkrsRIxYhbRJEqRVxJCErK7d%2b89%2fePcTW6WTdj4mH5nLuTunj3n%2b%2f2d3%2fn9fucc4f%2bAbdu2ISJkMhmxXupiMwH0lrr33qet7W6uhoRKaiVwlp9TCQSCQAFVAEdwL7gqxLgCeB0wAOuSgVSvywvLyeZTlrWeqLWukdrvVcpRXV19UF9q0%2bbeEC%2bEvgOsa74EVAaNBkP1AR%2fW0BdNBq1enp68Dyvzvf9P2qtVwNn%2bb5vh%2frrg%2f1JEP3hG0ehROFpt8qW2CLAYmRceax7aXeHv2PtFSM3LtD4NwNxYAqQAn4CnAwcFupqLjADiAG%2fAOqCz2PAq0Bb7tjDFrC8Pj7gfVvdD%2b3p9xAUoJcCKzGuKUCHhWyPSWmiV7FvCQQ4wGXAKcAEIBrqbibweMBrSuJzt4HOHwKEhAiXR5YqQHYS6quJ%2fSdHwGOxbgCGg8NZQp7zhGxyvu39rY3AJOCxkXAnDxDWcD0nM9c4AUgA1BTUzPggyEFhIhHgcXA1cBC4DHgxuX18fZQ89HALNBEZRRtNDPo8rdLt79r4aaelx%2bLqzHJ%2fKMIAmjo%2bzePAA8oBiYlEok6YNf06dP%2f1tTUpAeNQiHyDnAT8C36F18G%2bBWwgv6pPQVYo9GjjopcxMLYcJxSpPzO9mI1%2bg1BzQ9IBLQVGk1ad%2bFyAIfiroiUKIyb5aIFeAeoBQ4HtsZisQs6OzsbC3EhDUwMkc%2f03DeAJPCDY0oXa%2fTImIximrMECxtBcFRRuUYvClscNHu8LWxzn2Gn9wZJ3ZGptI788ZLiu193de%2fZwNKAaBaT6Hc%2fgFrP886ePXt2YyEzAPAV4EEodrle4EWgDBM9RgiKGudc5seuJSalaPwca3i8nX6CTakH6dY7s6J2CNASmJRtvnjEehs4HrgDs6Y0goisi0Qiv2%2fdunXboHlgVV1P%2bPU1YGeeZkXAmcFAIwxBnyZ3DRuSK%2bnVbYRzpsAk3LX803UX3XoXgpV93qpQ1c0%2bKTdu%2bQJwObAlD%2flnIpHIsmQyuW3u3LkFJ7IWYHMhDTUaH49t7jr2eFtQwRCCYp%2ffQkPqYVx9IAi7Bgr7lRV7NnWNSw
```

- WHM API 1 Functions - remove_integration_link — This function removes an integration link from the cPanel interface.
- WHM API 1 Functions - list_integration_links — This function lists integration links in the cPanel interface.

bj6TTj7em0%2bTteV9h3YnJGFp7jOGu6urqaa
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- WHM API 1 Functions - get_integration_link_use_r_config

This function retrieves configuration information about a specified integration link in a specified user's cPanel interface.

- Tutorial - Create an Integration Link

Integration links create a link in a user's cPanel interface.

%2bGIxvH1%2bgMTswJ8z3BYIGtVJojAnAzZiI
FDnkCCZHPGpJ0Y3lbXt33bdgPdUjF6GkFz%2b
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ACV0RVh0ZGF0ZTptb2RpZnkAMjAxNS0wOS0wM
lQxMjjozOT00C0wNTowMNF14kkAAAAASUVORK
5CYII%3d

Simple link

```
https://hostname.example.com:2087/cps  
ess#####/json-api/create_integra  
tion_link?api.version=1&user=username  
&implements=support&label=WHMCS+Suppo  
rt+Desk&app=WHMCS_support&url=http://  
www.cpanel.net&token=subway&base64_pn  
g_image=iVBORw0KGgoAAAANSUHEUgAAADAAA  
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```

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r93gzrJwFNQ6tB7KMHF6M7B34D0xEeDXgdAs%
2fIDsvVmjhNpXY0qYTUDqo5blw72p7yB07Li8
Ps6quh6uqy9GUGngVQ0X0D%2bz7YJuAOk77wk
RDW8tPzIKEnAo60RVORErhq%2b9dUrsKIgjIL
72210%2fucVSDh2pDwoZatj4H%2bRdIAdHBVW
ZAAAAJXRFWHRkYXRlOmNyZWF0ZQAyMDElLTA5
LTAyVDEyOjM5OjQ4LTA1OjAwppVa9QAAACV0R

```
Vh0ZGF0ZTptb2RpZnkAMjAxNS0wOS0wMlQxMj  
ozOTo0OC0wNTowMNFjI4kkAAAAASUVORK5CYII  
%3d
```

3

Refresh the user's application token.

Call the `update_integration_link_token` function to refresh the user's application token.

```
https://hostname.example.com:2087/cpses  
s#####/json-api/update_integration  
_link_token?api.version=1&user=username  
&app=WHMCS_billing&token=subway
```

Useful functions

cP

List integration links.

Call the `list_integration_links` function to retrieve a user's list of integration links.

```
https://hostname.example.com:2087/cpses  
s#####/json-api/list_integration_l  
inks?api.version=1&user=username
```

Delete the integration link.

Call the `remove_integration_link` function to remove the application's link from a user's cPanel interface.

```
https://hostname.example.com:2087/cpses  
s#####/json-api/remove_integration  
_link?api.version=1&user=username&app=W  
HMCS+Billing
```