

# Guide to API Authentication - Secure Remote Logins

## Guide to API Authentication

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## Introduction

cPanel & WHM supports secure remote logins via the `Cpanel::LogMeIn` module.



### Important:

- API calls that use a method that includes a URL **must** use the correct port:
  - 2082 — Unsecure calls to cPanel's APIs.
  - 2083 — Secure calls to cPanel's APIs.
  - 2086 — Unsecure calls to WHM's APIs, or to cPanel's APIs via the WHM API.
  - 2087 — Secure calls to WHM's APIs, or to cPanel's APIs via the WHM API.
  - 2095 — Unsecure calls to cPanel's APIs via a Webmail session.
  - 2096 — Secure calls to cPanel's APIs via a Webmail session.
- Otherwise-correct calls will return `Permission denied` or `Function not found` errors if they use an incorrect port number.
- This document **only** includes cPanel & WHM authentication methods. For Manage2 authentication information, read our [Guide to the Manage2 API](#) documentation.

## Secure remote logins

To allow users to log in to cPanel & WHM remotely, write a script that calls the `Cpanel::LogMeIn` module's `get_loggedin_url()` subroutine. This subroutine returns a URL for remote logins to cPanel, WHM, or Webmail.

## Parameters

When you call the `get_loggedin_url()` subroutine, you **must** pass in the following parameters:

Parameter	Type	Description	Possible values	Example
<code>user</code>	<i>string</i>	<b>Required</b> The cPanel, WHM, or Webmail username.	A valid username. In most scripts, retrieve this value from user input.	<code>username</code>
<code>pass</code>	<i>string</i>	<b>Required</b> The account's password.	A secure password. In most scripts, retrieve this value from user input.	<code>123456lug gage</code>
<code>hostname</code>	<i>string</i>	<b>Required</b> The cPanel, WHM, or Webmail account's main domain.	A valid domain on the server.	<code>example. com</code>
<code>service</code>	<i>string</i>	<b>Required</b> The account's service type.	<ul style="list-style-type: none"><li><code>cpanel</code></li><li><code>whm</code></li><li><code>webmail</code></li></ul>	<code>cpanel</code>

## Related documentation

- [Manage2 API Functions - Add a Pickup Phrase](#) — This function creates a pickup phrase that you use to authenticate with the Manage2 API.
- [Manage2 API Functions - Register Key-Based Authentication](#) — This function registers a server to use keyed authentication.
- [Manage2 API - Authentication Methods](#) — The Manage2 API supports HTTP or key-based authentication.
- [Guide to API Authentication](#) — cPanel & WHM supports several API authentication methods.
- [Guide to External Authentication - OpenID Connect](#) — External authentication allows your server's users to log in to WHM, cPanel, and Webmail through OpenID Connect-compliant identity providers.

goto_uri	<i>string</i>	<p><b>Required</b></p> <p>The location to which the script will redirect the user. The <code>get_loggedin_url()</code> subroutine uses this value to create the URL.</p>	<p>A valid path, relative to the <code>/usr/local/cpanel/base/</code> directory.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #fff9c4;"> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>For the best system speed and performance, we recommend that you append the <code>/json-api/dummy</code> string to your <code>goto_uri</code> parameter. For example:</li> </ul> <pre style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> &amp;goto_uri= /json-api /dummy /frontend /paper_lantern /park /index.html </pre> <ul style="list-style-type: none"> <li>We introduced this functionality in cPanel &amp; WHM version 76.</li> </ul> </div>	/frontend /paper_lantern /park /index.html
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## Returns

The `get_loggedin_url()` subroutine returns the following values:

Return	Type	Description	Possible values	Example
login_ok	<i>boolean</i>	Whether the function authenticated the user successfully.	<ul style="list-style-type: none"> <li>1 — Success.</li> <li>0 — Failure.</li> </ul>	1
login_message	<i>string</i>	A status message from the subroutine.	<ul style="list-style-type: none"> <li>Login OK</li> <li>An error message.</li> </ul>	Login OK
login_url	<i>string</i>	The secure remote login URL.	A valid URL that includes a valid session token and directs the user to the <code>goto_uri</code> path.	<code>https://example.com:2083/cpsess#####/frontend/paper_lantern/park/index.html</code>

## Example Perl script

```

#!/usr/bin/perl

use lib '/usr/local/cpanel';
use Cpanel::LogMeIn ();

# The cPanel, WHM, or Webmail username entered at login.
my $user    = 'YYYYYY';

# The cPanel, WHM, or Webmail password entered at login.
my $pass    = 'XXXXXX';

# The cPanel, WHM, or Webmail account's main domain.
my $host    = 'localhost';

# The service to log in to (cpanel, whm, or webmail).
my $service = 'cpanel';

# Call the get_loggedin_url subroutine.
my ( $login_ok, $login_message, $login_url, $security_token ) =
Cpanel::LogMeIn::get_loggedin_url(
    'user'    => $user,
    'pass'    => $pass,
    'hostname' => $host,
    'service' => $service,
    'goto_uri' => '/'
);

# Set up HTTP headers with the returned values.
if ($login_ok) {
    print "Location: $login_url\r\n\r\n";
}
else {
    print "Content-type: text/plain\r\n\r\n";
    print "LOGIN FAILED: $login_message\n";
}

# Call the get_loggedin_url subroutine for a different URL.
( $login_ok, $login_message, $login_url, $security_token ) =
Cpanel::LogMeIn::get_loggedin_url(
    'active_token_for_reuse' =>
$security_token,

    'user'    => $user,
    'pass'    => $pass,
    'hostname' => $host,
    'service' => $service,
    'goto_uri' => '/frontend/paper_lantern/park/index.html'
);

# Set up HTTP headers with the returned values.
if ($login_ok) {
    print "Location: $login_url\r\n\r\n";
}
else {
    print "Content-type: text/plain\r\n\r\n";
    print "LOGIN FAILED: $login_message\n";
}

```