

# Apache mod\_userdir Tweak

(WHM >> Home >> Security Center >> Apache mod\_userdir Tweak)

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## Overview

This interface allows you to disable the Apache mod\_userdir module's functionality for your users.

### Warnings:

- We **strongly** recommend that you **restrict** this access for most of your users. Before you use this interface, make certain that you read the [Security Implications](#) and [Warnings](#) sections below.
- If you enable Apache's ruby24-mod\_passenger module in WHM's [EasyApache 4 Interface \(WHM >> Home >> Software >> EasyApache 4\)](#), the system disables Apache's mod\_userdir module by default.

## The Apache mod\_userdir module

The Apache mod\_userdir module allows for visitors to access a user's website via a URL that contains that user's username. For example:

```
https://host.example.com/~username  
https://example.net/~username  
https://192.168.0.20/~username
```

Most servers use the Apache mod\_userdir module as a temporary URL system that allows users to view their websites. This temporary URL system functions even if the system does not possess a configured DNS or the domain does not yet point to the server.

### Note:

When you enable the Apache mod\_userdir module, **any** virtual host can access any website that uses the same IP address. It does **not** function only with the hostname.

## Enable mod\_userdir access

To enable mod\_userdir access, perform the following steps:

1. Select the *Enable mod\_userdir Protection* checkbox.
2. To enable mod\_userdir functionality for specific hosts, select the appropriate *Exclude Protection* checkboxes.

### Important:

This action allows **all** users to access content on the host via the Apache mod\_userdir module. We recommend that you only enable mod\_userdir functionality on the DefaultHost.

3. To only allow mod\_userdir functionality for specific additional users to access these hosts, enter their usernames in the *Additional Users* text box.
  - Resellers can use this feature to allow their customers to access their own websites before DNS information propagates.
  - To enter multiple users, separate each account name with a space.
4. Click **Save**.

### Note:

To allow your users to access their **own** accounts through this module, but not circumvent bandwidth limits, select the *Exclude*

Protection checkbox for the *DefaultHost (nobody)* host.

**Warning:**

Do **not** select the *Exclude Protection* checkbox on a user's domain if you only wish to allow an individual user to access their site with a `mod_userdir` URL.

## Example

You own the following three cPanel accounts:

- Arthur's cPanel account (`arthur`) owns `arthurexample.com`
- Betty's cPanel account (`betty`) owns `bettyexample.com`
- Charles' cPanel account (`charles`) owns `charlesexample.com`

Arthur's domain resolves, but Betty's and Charles' domains do not yet resolve.

To enable `mod_userdir` protection for the server to deny one user the ability to use another user's bandwidth, select the *Enable mod\_userdir Protection* checkbox.

However, if you still want to allow Betty and Charles to use Arthur's domain to see their sites, perform the following steps:

1. Do **not** select the checkbox next to `arthurexample.com` (Arthur)
2. Enter `betty charles` in the *Additional Users* text box.
3. Click *Save*.

Betty and Charles can browse their sites with the following URLs:

- `https://arthurexample.com/~betty`
- `https://arthurexample.com/~charles`

## Security Implications

We **strongly** recommend that you restrict `mod_userdir` functionality for most of your users. `mod_userdir` can expose potential security issues.

- The system accounts for bandwidth per-host rather than per-user. If a user access another user's content via `mod_userdir`, then the server will not record their bandwidth usage correctly. This can also potentially allow for one user to use the bandwidth of another.

When you disable `mod_userdir` protection for a host, we recommend that you do **not** exclude the entire host, but rather exclude only specific users via the "Additional Users" field.

## Warnings

### Enabled `mod_userdir` protection

Before you enable the Apache `mod_userdir` module, make certain that you understand the following information:

- Java servlets do **not** work with `mod_userdir`-based URLs because Tomcat requires you to add additional directives to the virtual host.

**Important:**

EasyApache 3 does **not** support new installations of Tomcat.

As of cPanel & WHM version 76, EasyApache 4 now supports Tomcat 8.5. For more information, read our [Tomcat documentation](#).

- The following PHP handlers do **not** allow you to use the Apache `mod_userdir` module.
  - PHP via CGI.
  - FastCGI.
  - PHP-FPM.

Select the tabs below for directions on how to use this module:

[EasyApache 3](#) [EasyApache 4](#):

To use Apache's `mod_userdir` module, perform the following actions in WHM's [Configure PHP and suEXEC](#) interface (*WHM >> Home >> Security Center >> Configure PHP and suEXEC*):

- Set the *PHP Handler 5* option to *suphp*.
- Set the *Apache suEXEC* option to *off*.

To use Apache's `mod_userdir` module, perform the following actions:

- Make certain that the `mod_suphp` module is installed in the *Apache Modules* section of WHM's [EasyApache 4 Interface](#) (*WHM >> Home >> Software >> EasyApache 4*).
- Select *suphp* for each version of PHP installed on your system in the *PHP Handlers* section of WHM's [MultiPHP INI Editor](#) interface (*WHM >> Home >> Software >> MultiPHP Manager*).
- `open_basedir` protection restricts PHP's access to the home directory of the user who owns the base domain, **not** the home directory of the user account that a visitor accesses. If you enable `open_basedir` protection in WHM's [PHP open\\_basedir Tweak](#) interface (*WHM >> Home >> Security Center >> PHP open\_basedir Tweak*), visitors **cannot** access some sites via the `mod_userdir` module.
- Websites that use the `mod_rewrite` or other directives in their `.htaccess` files will **not** function correctly when visitors view them through `mod_userdir` URLs.
- If you enable Apache's `mod_ruid2` module, then the `mod_userdir` module will **not** function correctly. For more information, read our [Apache Module: ModRuid2](#) documentation.

**Warning:**

Under certain conditions, a user can attack another user's account if they access a malicious script through a `mod_userdir` URL.

## The Symlink Race Condition Protection option

The following table describes when the *Symlink Race Condition Protection* option blocks `mod_userdir` access:

Condition	<code>mod_userdir</code> access	Example URL
The requested URL includes a file and does not belong to the owner of the file.	Blocked.	<code>example.com/~username/file</code>
The requested URL includes a file and an IP address that belongs to another account.	Blocked.	<code>192.168.0.20/~username/file</code>
The requested URL contains a directory.	Not blocked.	<code>example.com/~username/dir</code>
You wish to access the server's hostname.	Not blocked.	<code>host.example.com/~username</code>

## Disabled `mod_userdir` protection

Before you disable `mod_userdir` protection, make certain that you understand the following information:

- While this WHM feature allows you to restrict `mod_userdir` functionality, it does **not** remove the module itself. Some [PCI compliance](#) scans may still detect it.
- This feature does **not** list IP addresses because the `mod_userdir` module uses virtual hosts.
  - You **cannot** use IP addresses to configure this feature.
  - If you do not protect the default host, you can access the server's main IP address through the `mod_userdir` module in **most** cases.
  - If you attempt to provide protection on a dedicated IP address, the site's contents will still display when protection is enabled. To disable this behavior, open the `/etc/apache2/conf.d/includes/post_virtualhost_global.conf` file with a text editor and add the following line:

```
UserDir disabled
```

## Additional documentation

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

- [Apache mod\\_userdir Tweak](#)
- [ModSecurity Vendors](#)
- [Global Configuration](#)
- [Log Rotation](#)
- [The splitlogs Binary](#)
  
- [SSH Access](#)
- [SSL TLS Wizard](#)
- [Apache Handlers](#)
- [Errors](#)
- [Security Policy](#)
  
- [Apache mod\\_userdir Tweak](#)
- [ModSecurity Vendors](#)
- [How to Modify Your Hosts File](#)
- [Additional Security Software](#)
- [How to Purchase a LiteSpeed Web Server License](#)
  
- [cPanel API 2 Modules - UserHttpUtils](#)
- [UAPI Modules - Mime](#)
- [cPanel API 2 Functions - Mime::listhandlers](#)
- [cPanel API 2 Functions - Mime::listmime](#)
- [cPanel API 2 Functions - Stats::lastapachehits](#)