WP fail2ban Manual

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WP fail2ban is a WordPress plugin to write a myriad of events to syslog for integration with fail2ban.
CHAPTER 1

Introduction

1.1 History

As with many Open Source projects, P fail2ban started as way to scratch a particular itch. I had a dedicated server that was getting some unwelcome attention from various bots, and while it was trivial to configure fail2ban for ssh etc, WordPress was another story. Thus WP fail2ban was born late November 2011.

Since then it’s slowly but steadily accumulated features, and much to my surprise, gained a considerable number of installs (30,000+ at the time of writing) - I really had no idea so many other people would be interested!

Between versions 3.5 and 3.6 there was a bit of a delay. I switched my development environment from Windows 10¹ to a FreeBSD workstation and a Linux laptop, life then decided to take its turn and get in the way for a bit, all while the shadow of Gutenberg loomed large over the future of WordPress. With the advent of ClassicPress² things started to look sunnier, so I dusted off the repo, put together some better documentation, braved the horrors of svn, and in November 2018 released 3.6 as a pseudo 7th anniversary present.

1.2 Future

Version 4 was born from a desire to visualise the things WPf2b was logging; being entirely separate and distinct from the core functionality, adding this as freemium features seemed like a good plan. Time will tell.

This logical separation will continue for all future versions - if you were happy with the way 3.6 worked you’ll be happy with future versions too.

¹ It took me a while to realise that Microsoft really do want to turn Windows 10 into a toy, but I got there eventually.
² In the interests of full disclosure: I’m a Founding Committee Member and at the time of writing, Security Team Lead.
CHAPTER 2

Features

v5.1

• WAF

v5.0

• Site heath checks

Premium

• Akismet support
• Event hooks

v4.4.0

• Add WP_FAIL2BAN_USE_AUTHPRIV.
• Add WP_FAIL2BAN_FREE_ONLY.
• Add WP_FAIL2BAN_PLUGIN_LOG_OTHER.

Premium

• Add support for Pingbacks while blocking XML-RPC.

v4.3.2

• Back-port new Block event class.

Premium

• Add cron event to update trusted Cloudflare IP ranges weekly.
• Add cron event to update trusted Jetpack IP ranges weekly.
• Add cron event to update MaxMind database weekly.
• Add support for blocking by Country.
• Add XML-RPC blocking; allow trusted IPs and Jetpack.
2.1 NEW - Multisite Support

Version 4.3 introduces proper support for multisite networks.

2.2 NEW - Block username logins

Sometimes it’s not possible to block user enumeration (for example, if your theme provides Author profiles). Version 4.3 adds support for requiring the use of email addresses for login.

2.3 NEW - Filter for Empty Username Login Attempts

Some bots will try to login without a username. Version 4.3 logs these attempts and provides an “extra” filter to match them.

2.4 NEW - syslog Dashboard Widget

Ever wondered what’s being logged? The new dashboard widget shows the last 5 messages; the Premium version keeps a full history to help you analyse and prevent attacks.

2.5 Support for 3rd-party Plugins

Version 4.2 introduced a simple API for authors to integrate their plugins with WPf2b, with 2 experimental add-ons:

- Contact Form 7
- Gravity Forms

2.6 CloudFlare and Proxy Servers

WPf2b can be configured to work with CloudFlare and other proxy servers. For a brief overview see WP_FAIL2BAN_PROXIES.

2.7 Comments

WPf2b can log both successful comments (see WP_FAIL2BAN_LOG_COMMENTS), and unsuccessful comments (see WP_FAIL2BAN_LOG_COMMENTS_EXTRA).

2.8 Pingbacks

WPf2b logs failed pingbacks, and can log all pingbacks. For a brief overview see WP_FAIL2BAN_LOG_PINGBACKS.
2.9 Spam

WPf2b can log comments marked as spam. See WP_FAIL2BAN_LOG_SPAM.

2.10 User Enumeration

WPf2b can block user enumeration. See WP_FAIL2BAN_BLOCK_USER_ENUMERATION.

2.11 Work-Arounds for Broken syslogd

WPf2b can be configured to work around most syslogd weirdness. For a brief overview see WP_FAIL2BAN_SYSLOG_SHORT_TAG and WP_FAIL2BAN_HTTP_HOST.

2.12 Blocking Users

WPf2b can be configured to short-cut the login process when the username matches a regex. For a brief overview see WP_FAIL2BAN_BLOCKED_USERS.

2.13 mu-plugins Support

WPf2b can easily be configured as a must-use plugin.
3.1 Is WP fail2ban Already Installed?

WP fail2ban pre-installed in mu-plugins in a new DigitalOcean WordPress droplet.

3.2 Overview

WP\!/2b installs just like any other WordPress plugin - you need do nothing differently.
3.2.1 Premium

The Premium version installs via Freemius.

Database

Activating WPf2b Premium creates two database tables:

- wp_fail2ban_log
- wp_fail2ban_plugins

WPf2b Premium never drops the database tables - it’s your data.
Now you have $WPf2b$ installed and activated it’s time to make it do something useful.

### 4.1 WP fail2ban

The Free version of $WPf2b$ is configured by defining constants in `wp-config.php`. If you’re using the Premium version, or you know your way around `wp-config.php` already, skip ahead to Logging.

The first step is to check you can edit your `wp-config.php` file. If you’re not sure how to do that you’ll need to contact your hosting provider - for now you can skip ahead to configuring `fail2ban`.

The second step is to **take a backup** of `wp-config.php`. We’re not going to touch any other part of WordPress, so if anything goes wrong and your site stops working, restoring this backup should get you running again.

### 4.2 Logging

The key concept behind $WPf2b$ is logging *Events to syslog*. If $WPf2b$ doesn’t log an Event, or logs it to the wrong place, `fail2ban` won’t work as it should. If in doubt go with the defaults - they should work for most systems, and once you understand how the pieces fit together you can revisit this.

#### 4.2.1 Choosing the Events to Log

If you’re unfamiliar with `fail2ban` and `syslog` I recommend **not** enabling any extra logging to start with - skip ahead to configuring `fail2ban`. $WPf2b$ automatically handles the most important things with sensible defaults that should work for most systems.

#### 4.2.2 Advanced Users
Events

Over the years WPf2b has accumulated a lot of logging ability (and there’re even more on the way):

<table>
<thead>
<tr>
<th>Event</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auth OK</td>
<td>WP_FAIL2BAN_AUTH_LOG</td>
</tr>
<tr>
<td>Auth Fail</td>
<td></td>
</tr>
<tr>
<td>Blocked User</td>
<td>WP_FAIL2BAN_BLOCKED_USERS</td>
</tr>
<tr>
<td>Blocked User Enumeration</td>
<td>WP_FAIL2BAN_BLOCK_USER_ENUMERATION</td>
</tr>
<tr>
<td>Blocked Username Login</td>
<td>WP_FAIL2BAN_BLOCK_USERNAME_LOGIN</td>
</tr>
<tr>
<td>Comment</td>
<td>WP_FAIL2BAN_LOG_COMMENTS</td>
</tr>
<tr>
<td>Comment: Spam</td>
<td></td>
</tr>
<tr>
<td>Attempted Comment: Post not found</td>
<td>WP_FAIL2BAN_LOG_COMMENTS_EXTRA</td>
</tr>
<tr>
<td>Attempted Comment: Closed post</td>
<td>WP_FAIL2BAN_LOG_COMMENTS_EXTRA</td>
</tr>
<tr>
<td>Attempted Comment: Trash post</td>
<td>WP_FAIL2BAN_LOG_COMMENTS_EXTRA</td>
</tr>
<tr>
<td>Attempted Comment: Draft post</td>
<td>WP_FAIL2BAN_LOG_COMMENTS_EXTRA</td>
</tr>
<tr>
<td>Attempted Comment: Password-protected post</td>
<td>WP_FAIL2BAN_LOG_COMMENTS_EXTRA</td>
</tr>
<tr>
<td>Pingback</td>
<td>WP_FAIL2BAN_LOG_PINGBACKS</td>
</tr>
<tr>
<td>Pingback error</td>
<td>WP.Fail2ban_LOG_PINGBACK_ERROR_LOG</td>
</tr>
</tbody>
</table>

You should consider enabling Comment: Spam and Attempted Comment: Closed post, and, if you don’t use WordPress’s commenting system at all, you should enable all the Attempted Comment Events.

Facilities

By default, WPf2b uses the following syslog Facilities and Levels:

<table>
<thead>
<tr>
<th>What</th>
<th>Default</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auth OK</td>
<td>LOG_AUTH</td>
<td>INFO</td>
</tr>
<tr>
<td>Auth Fail</td>
<td></td>
<td>NOTICE</td>
</tr>
<tr>
<td>Blocked User</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blocked User Enum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comment</td>
<td>LOG_USER</td>
<td>INFO</td>
</tr>
<tr>
<td>Comment: Spam</td>
<td>LOG_AUTH</td>
<td>NOTICE</td>
</tr>
<tr>
<td>Comment: Post not found</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comment: Closed post</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comment: Trash post</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comment: Draft post</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comment: Password-protected post</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pingback</td>
<td>LOG_USER</td>
<td>INFO</td>
</tr>
<tr>
<td>Pingback error</td>
<td></td>
<td>NOTICE</td>
</tr>
</tbody>
</table>

Unfortunately, there is no way of knowing a priori which Facility goes where. There is a table of default locations of Logfile Reference for various OSs; if you’re running something not listed there and you know where the various Facilities go, please either submit a PR on GitHub, or let me know in the forum.

4.3 fail2ban

fail2ban can be tricky to configure correctly; with so many flavours of Linux it’s impossible to provide anything but general guidance.
4.3.1 Standard Filters

The filter files included are intended only as a starting point for those who want WPf2b to work “out of the box”. There is no “one size fits all” configuration possible for fail2ban - what may be a soft failure for one site should be treated as a hard failure for another, and vice versa. Careful thought should be given to what is appropriate for your environment.

Typical Settings

1. Copy wordpress-hard.conf and wordpress-soft.conf to your fail2ban/filters.d directory
2. Create a new file in jail.d called wordpress.conf:

```ini
[wordpress-hard]
enabled = true
filter = wordpress-hard
logpath = /var/log/auth.log
maxretry = 1
port = http,https

[wordpress-soft]
enabled = true
filter = wordpress-soft
logpath = /var/log/auth.log
maxretry = 3
port = http,https
```

Note: Make sure you change logpath to the correct log for your OS. If your OS uses systemd it may be simpler and/or easier to install a real syslog service first.

3. Reload or restart fail2ban

**wordpress-hard.conf and wordpress-soft.conf**

There are some things that are almost always malicious, e.g. blocked users and pingbacks with errors. *wordpress-hard.conf* is designed to catch these so that you can ban the IP immediately.

Other things are relatively benign, like a failed login. You can’t let people try forever, but banning the IP immediately would be wrong too. *wordpress-soft.conf* is designed to catch these so that you can set a higher retry limit before banning the IP.

For the avoidance of doubt: you should be using both filters.

4.3.2 Custom Filters

You should never modify the standard *wordpress-hard.conf* and *wordpress-soft.conf* files. Instead, copy them to, for example, *wordpress-hard-custom.conf* and *wordpress-soft-custom.conf*, and edit those.

It is very rare that individual filter rules are modified, but new rules are common; there is always an entry in the “Updating” notes when there is any change to the rules. It is your responsibility to ensure the rules in your custom filters are kept current.
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**wordpress-extra.conf**

Version 4 introduced a number of new logging options which didn’t fit cleanly into either of the *hard* or *soft* filters - they’re *extra*.

For example, if your site doesn’t use WordPress comments at all, you could add the rules matching attempted comments to the *hard-custom* filter. Again, there is no “one size fits all” for these rules.

### 4.3.3 Updating

Whether you use the standard filter files or a highly-customised set of your own, it is critical they are kept up to date. There is always an entry in the “Updating” notes when the filter files need to be updated.

Obsolete filters may cause users to be blocked incorrectly, or attackers not to be detected.

*WPf2b cannot* update them for you.

See *Updating Filters*.

### 4.4 *mu-plugins* Support

There are two main reasons for using *mu-plugins*:

1. You need to load *WPf2b* before other security plugins,
2. You don’t trust the site administrators.

#### 4.4.1 Loading Early

One of the better ways is to install *WPf2b* as usual and then create a symlink in *mu-plugins*:

```bash
# ln -s ../plugins/wp-fail2ban/wp-fail2ban.php
# ls -l
total 1
```

or for the Premium version:

```bash
# ln -s ../plugins/wp-fail2ban-premium/wp-fail2ban.php
# ls -l
total 1
```

This has the advantage that you can update *WPf2b* as usual without having to update *mu-plugins* directly. For the free version you don’t need to activate *WPf2b*, but you do for the Premium version.

#### 4.4.2 Forcing Usage

The main objective here is to stop people fiddling with things, so there are necessarily some restrictions on configuring *WPf2b*.

---

1 For example, WordFence, which assumes it’s the only one.
WP fail2ban must be configured in wp-config.php - you can’t use the Premium config UI; not only does it make no sense, it won’t work.\(^2\)

The actual configuration itself is simple; for the Free version:

1. Extract the Free version of WPf2b into a directory called wp-fail2ban within mu-plugins.
2. symlink wp-fail2ban.php:

```bash
# ln -s wp-fail2ban/wp-fail2ban.php
# ls -l
total 1
```

3. Keep WPf2b up-to-date.

For the Premium version:

1. Extract the Premium version of WPf2b into a directory called wp-fail2ban-premium within mu-plugins.
2. symlink wp-fail2ban.php:

```bash
# ln -s wp-fail2ban-premium/wp-fail2ban.php
# ls -l
total 1
```

3. Keep WPf2b up-to-date.

Keeping WPf2b up-to-date

It’s that last step that catches out most people - WordPress doesn’t check mu-plugins for updates, so by configuring WPf2b in this way **you are taking responsibility** for keeping WPf2b up-to-date. I do my best, but I cannot guarantee there will never be a critical problem with WPf2b - you and you alone are responsible for checking for updates and installing them.

### 4.5 Site Health Tool

New in version 5.0.0.

WP fail2ban uses the standard WordPress Site Health tool to check things are configured correctly.

#### 4.5.1 Checking fail2ban

This works well for typical installations, but there are two things to note:

\(^2\) It may look like it works now, but in a future release it will be blocked.
Running PHP with chroot

PHP will not be able to access files outside the chroot, so the health checks will not work.

If you really want them to work, you could ensure the chroot includes the parent directory of the document root (you may already have done this and moved wp-config.php outside the document root), and then use nullfs to mount the fail2ban install into the chroot above the document root. You will then need to tell WP fail2ban where to find your fail2ban install (see below).

Most people will simply disable the checks by adding this to wp-config.php

```php
define('WP_FAIL2BAN_SITE_HEALTH_SKIP_FILTERS', true);
```

See also:

* WP_FAIL2BAN_SITE_HEALTH_SKIP_FILTERS

Non-Standard Install Path for fail2ban

If your fail2ban install lives somewhere other than /etc/fail2ban or /usr/local/etc/fail2ban you will need to tell WP fail2ban where to find it by adding something like this to wp-config.php

```php
/**
 * Be sure to change the path to point to your fail2ban install
 */
define('WP_FAIL2BAN_INSTALL_PATH', '/var/fail2ban');
```

Other Reasons

There are, of course, many other reasons why PHP won’t be able to read the fail2ban filter files, e.g. tighter chmod, SELinux.

If you have a way to allow the health checks to run in any of these situations and think it may help others, please either write it up and submit a PR, or get in touch on the forums.
CHAPTER 5

Usage

5.1 Event Log

5.2 Report: Events by Country

5.3 Clearing the Cache
While WPf2b needs no routine maintenance, from time to time there are changes that will require modifying your configuration.

### 6.1 Updating Filters

Keeping your fail2ban filters up-to-date is critical for the correct operation of WPf2b.

#### 6.1.1 When to Update

Knowing when to update your filters has changed since 4.4.x. The release notes, as always, still say whether updating is necessary, but now that WPf2b uses Semantic Versioning (SemVer) it’s trivial to determine when an update is needed. In addition, the WordPress Site Health tool now checks if the filters are up-to-date.

**SemVer**

**From v5.0.1 to v5.0.x** You will **never** need to update the filters.

**From v5.0.x to v5.1.0** You **may** need to update the filters to enable **new** features; existing configurations will continue to work as before.

**From v5.x.y to v6.0.0** You **may** need to update the filters for **existing** features to work.

#### 6.1.2 How to Update


The old filter files can be found in the `filter.d` directory in your fail2ban install.

It’s usually a good idea to take a backup of the old filters.
Then, copy the new filter files to the `filter.d` directory, and reload the `fail2ban` jails:

```
# fail2ban-client reload
```

**Tip:** `fail2ban` can usually be found in:

- `/etc/fail2ban/
- `/usr/local/etc/fail2ban/

but may live somewhere else on your system.

If you’re running Windows and know where `fail2ban` usually lives, please submit a PR for this page.
CHAPTER 7

Add-ons

Gravity Forms
8.1 API

New in version 4.2.0: Added API to allow 3rd-party plug-ins.

8.1.1 Overview

The basic steps are:

Register Plugin

\texttt{do\_action(string action, string slug, string name) \rightarrow void}

Register plugin.

Parameters

- \texttt{$action(string)} – Must be \texttt{wp\_fail2ban\_register\_plugin}.
- \texttt{$slug(string)} – Plugin slug. This must be the actual plugin slug. Maximum length is 200.
- \texttt{$name(string)} – Plugin display name. This should be an unescaped string - HTML is allowed.

Throws

- \texttt{LengthException} – Either \texttt{$slug} or \texttt{$name} is too long; the \texttt{message} will say which.
- \texttt{RuntimeException} – Database error (Premium only).
Example

```php
try {
    do_action('wp_fail2ban_register_plugin', 'my-plugin-slug', 'My Plugin Name');
} catch (\LengthException $e) {
    // slug or name too long
} catch (\RuntimeException $e) {
    // database error
}
```

Register Message

do_action(string $action, string $slug, array $args) → void

Parameters

- $action(string) – Must be wp_fail2ban_register_message.
- $slug(string) – The plugin slug used in Register Plugin.
- $args['slug'](string) – The message slug.
- $args['fail'](string) – Recommended action.
- $args['priority'](int) – syslog priority to use. Only the following priorities are supported:
  - LOG_CRIT
  - LOG_ERR
  - LOG_WARNING
  - LOG_NOTICE
  - LOG_INFO
  - LOG_DEBUG
- $args['event_class'](string) – Class of Event. This is one of:
  - Auth Authentication-related Events.
  - Block Blocking Events.
  - Comment Comment-related Events.
  - XMLRPC XML-RPC-related Events.
  - Password Password-related Events.
  - REST REST API-related Events.
  - Spam Spam-related Events.
- $args['event_id'](int) – Event ID - 16 bits you may do with as you please.
- $args['message'](string) – Message with substitutions. Note that " from <IP>" is appended.
- $args['vars'](string[]) – An array of substitutions mapped to regular expressions.

When logging a message the substitutions are checked and substituted if present. The regex will be used to generate a matching rule for fail2ban.
Throws

- **InvalidArgumentException** – Missing entry or invalid type. The message will give details.
- **UnexpectedValueException** – Invalid value. The message will say which.

Example

```php
$args = [
    'slug' => 'my-plugin-msg-slug-1',
    'fail' => 'hard',
    'priority' => LOG_NOTICE,
    'event_class' => 'Password',
    'event_id' => 0x001F,
    'message' => 'Message with ___VAR1___ and ___VAR2___',
    'vars' => [
        'VAR1' => '\d+',
        'VAR2' => '*.'
    ]
];
try {
    do_action('wp_fail2ban_register_message', 'my-plugin-slug', $args);
} catch (InvalidArgumentException $e) {
    // Missing entry or invalid type
} catch (UnexpectedValueException $e) {
    // Invalid value
}
```

Log Message

```php
do_action(string $action, string $plugin_slug, string $message_slug, array $vars) → void
```

Parameters

- **$action**(string) – Must be wp_fail2ban_log_message.
- **$plugin_slug**(string) – The plugin slug used in Register Plugin.
- **$message_slug**(string) – The message slug used in Register Message.
- **$vars**(array) – The variable substitutions registered with the message.

Throws **InvalidArgumentException** – Plugin or message not registered.

Example

```php
function myplugin_foobar()
{
    $vars = [
        'VAR1' => 12345,
        'VAR2' => 'xyz'
    ];
    do_action(
        'wp_fail2ban_log_message',
        'my-plugin-slug',
```
Design

To allow 3rd-party plugins to add support for *WPf2b* more easily, the API uses actions. This avoids the need to check if *WPf2b* is installed, then import a file, check for versions, and so on. Integration code can be written that will work if *WPf2b* is installed, and do nothing if not.

**Note:** Because *do_action* has no return value *WPf2b* will throw an Exception if there is an error.

### 8.1.2 Example

```php
/**
 * function myplugin_wpf2b_register()
 {
   // Register the plugin
   try {
     do_action('wp_fail2ban_register_plugin',
       'my-plugin-slug',
       'My Plugin Name');
   }
   catch (\LengthException $e) {
     // slug or name too long
   } catch (\RuntimeException $e) {
     // database error
   }

   // Register a message
   $args = [
     'slug' => 'my-plugin-msg-slug-1',
     'fail' => 'hard',
     'priority' => LOG_NOTICE,
     'event_class' => 'Password',
     'event_id' => 0x001F,
     'message' => 'Message with ___VAR1___ and ___VAR2___',
     'vars' => {
       'VAR1' => '\d+',
       'VAR2' => '*.'
     }
   ];
   try {
     do_action('wp_fail2ban_register_message',
       'my-plugin-slug',
       $args
   })
```
37 )
38 } catch ( \InvalidArgumentException $e ) {
39 // Missing entry or invalid type
40 } catch ( \UnexpectedValueException $e ) {
41 // Invalid value
42 }
43 add_action(
44 'wp_fail2ban_register',
45 __NAMESPACE__ .'\myplugin_wp2b_register'
46 );
47
48 /**
49 *
50 */
51 function myplugin_foobar()
52 {
53 $vars = [
54 'VAR1' => 12345,
55 'VAR2' => 'xyz'
56 ];
57 do_action(
58 'wp_fail2ban_log_message',
59 'my-plugin-slug',
60 'my-plugin-msg-slug-1',
61 $vars
62 );
63 }

8.2 Events

New in version 5.0.0: Add event actions.

8.2.1 EventData Class

```php
final class EventData implements \ArrayAccess, \Iterator, \Countable
{
/**
 * Database fields; read-only
 */
int $blog_id;
int $event;
string $ipv6;
?string $username;
?string $password;
?int $ref_id;
?string $iso;
?int $plugin;
?string $request_method;
?string $url;
?string $content_type;
?string $referer;
```
function getUserAgent(): ?string;
function getPostdata(): ?string;
function getHttpHeaders(): ?string;
}

final class org\lecklider\charles\wordpress\wp_fail2ban\premium\EventData
WPf2b Event data.

property $blog_id → int
   Database field: blog_id

property $event → int
   Database field: event

property $ipv6 → string
   Database field: ipv6

property $username → ?string
   Database field: username

property $password → ?string
   Database field: password

property $ref_id → ?int
   Database field: ref_id

property $iso → ?string
   Database field: iso

property $plugin → ?int
   Database field: plugin

property $request_method → ?string
   Database field: request_method

property $url → ?string
   Database field: url

property $content_type → ?string
   Database field: content_type
property $referer → ?string
    Database field: referer

property $user_agent → ?string
    Database field: user_agent

property $post → ?string
    Database field: post

property $headers → ?string
    Database field: headers

public getBlogId() → int
    Get the ID of the blog that generated the event.

    Returns The Blog ID as an integer.

public getEventId() → int
    Get the ID of the Event.

    Returns Returns the Event ID as an integer.

public getIp() → string
    Get the IP address of the host that caused the Event.

    Returns Returns the IP address as a string.

public getUsername() → ?string
    Get the username used to trigger the Event. Set by:
    • WPF2B_EVENT_AUTH_BLOCK_USER
    • WPF2B_EVENT_AUTH_BLOCK_USERNAME_LOGIN
    • WPF2B_EVENT_AUTH_FAIL
    • WPF2B_EVENT_AUTH_OK
    • WPF2B_EVENT_PASSWORD_REQUEST

    Returns The username as a string, or null if not set.

public getPassword() → ?string
    Get the password used to trigger the Event. Set by:
    • WPF2B_EVENT_AUTH_BLOCK_USER
    • WPF2B_EVENT_AUTH_BLOCK_USERNAME_LOGIN
    • WPF2B_EVENT_AUTH_FAIL

    Returns The password as a string, or null if not set.

public getRefId() → ?int
    Get the referenced ID for the Event. Set by:
    • WPF2B_EVENT_COMMENT_CLOSED
    • WPF2B_EVENT_COMMENT_DRAFT
    • WPF2B_EVENT_COMMENT_NOT_FOUND
    • WPF2B_EVENT_COMMENT_PASSWORD
    • WPF2B_EVENT_COMMENT_SPAM

8.2. Events
• \textit{WP2B\_EVENT\_COMMENT\_TRASH}
• \textit{WP2B\_EVENT\_COMMENT}

\textbf{Returns} The Reference ID as an integer, or \texttt{null} if not set.

\textbf{public getIsoCountryCode}() \rightarrow \texttt{?string}
Get the 2-letter ISO country code for the Event.

\textbf{Returns} The country code as a string, or \texttt{null} if unknown.

\textbf{public getPluginId}() \rightarrow \texttt{?int}
Get the registered plugin ID. See \textit{Register Plugin}.

\textbf{Returns} The plugin ID as an integer, or \texttt{null} for core Events.

\textbf{public getRequestMethod}() \rightarrow \texttt{?string}
Get the HTTP Request Method for the Event. See \textit{WP\_FAIL2BAN\_EX\_LOG\_URL}.

\textbf{Returns} The request method as a string, or \texttt{null} if URL logging is not enabled.

\textbf{public getUrl}() \rightarrow \texttt{?string}
Get the HTTP URL for the Event. See \textit{WP\_FAIL2BAN\_EX\_LOG\_URL}.

\textbf{Returns} The URL as a string, or \texttt{null} if URL logging is not enabled.

\textbf{public getContentType}() \rightarrow \texttt{?string}
Get the HTTP Content Type for the Event. See \textit{WP\_FAIL2BAN\_EX\_LOG\_POST\_DATA}.

\textbf{Returns} The content type as a string, or \texttt{null} if POST data logging is not enabled.

\textbf{public getReferer}() \rightarrow \texttt{?string}
Get the HTTP Referer for the Event. See \textit{WP\_FAIL2BAN\_EX\_LOG\_REFERER}.

\textbf{Returns} The Referer as a string, or \texttt{null} if Referer logging is not enabled.

\textbf{public getUserAgent}() \rightarrow \texttt{?string}
Get the HTTP User Agent for the Event. See \textit{WP\_FAIL2BAN\_EX\_LOG\_USER\_AGENT}.

\textbf{Returns} The user agent as a string, or \texttt{null} if User Agent logging is not enabled.

\textbf{public getPostData}() \rightarrow \texttt{?string}
Get the HTTP POST data for the Event. See \textit{WP\_FAIL2BAN\_EX\_LOG\_POST\_DATA}.

\textbf{Returns} The POST data as a string, or \texttt{null} if POST data logging is not enabled.

\textbf{public getHttpHeaders}() \rightarrow \texttt{?string}
Get the HTTP headers for the Event. See \textit{WP\_FAIL2BAN\_EX\_LOG\_HEADERS}.

\textbf{Returns} The HTTP headers as a string, or \texttt{null} if header logging is not enabled.
9.1 4.3.0

- Add new dashboard widget: last 5 syslog messages.
- Add full multisite support.
- Add username login blocking (force login with email).
- Add separate logging for login attempts with an empty username.
- Improve user enumeration blocking compatibility with the WordPress block editor (Gutenberg).
- Bump the minimum PHP version to 5.6.

9.1.1 Patches

4.3.0.1

Premium Only

- Fix issue when `WP_FAIL2BAN_BLOCK_USERNAME_LOGIN` enabled and `WP_FAIL2BAN_BLOCKED_USERS` not configured.

4.3.0.2

Premium Only

- Fix issue where some events weren’t logged.
4.3.0.3

Premium Only

- Fix incorrect total for Event Log.
- Fix database renumber for Pingbacks.

4.3.0.4

- Fix plugin event registration.
- Add colour to “Last 5 Messages” dashboard widget.

4.3.0.5

- Fix empty username detection for multisite.
- Fix harmless warning when activating new multisite install.
- Fix esoteric edge-case where `wp-load.php` is loaded via a script run from the CLI in a directory with a `functions.php` file.

4.3.0.6

- Fix Forbidden error on Posts page for roles below Editor when user enum blocking enabled. [WordPress only]

4.3.0.7

- Finish refactoring to allow inclusion of constants in `wp-config.php` (h/t @iCounsellor).

Premium Only

- Fix MaxMind database update.

9.1.2 Upgrade

To take advantage of the new features you will need to update your `fail2ban` filters; existing filters will continue to work as before.

Premium Users

Please backup your database before upgrading.

4.3.0.7

Premium Users

Please update your MaxMind database.
10.1 All

10.1.1 WP_FAIL2BAN_AUTH_LOG

Facility for Auth class events.

Default: LOG_AUTH or LOG_AUTHPRIV

New in version 2.2.0.
Changed in version 4.4.0: Uses WP_FAIL2BAN_USE_AUTHPRIV

Listing 1: Example: Using LOG_LOCAL5

```php
/**
 * Facility for Auth class events.
 */
define('WP_FAIL2BAN_AUTH_LOG', LOG_LOCAL5);
```

See also:
- WP_FAIL2BAN_USE_AUTHPRIV
- Auth Events

10.1.2 WP_FAIL2BAN_BLOCKED_USERS

Block login for specified usernames.

New in version 2.0.0.
The bots that try to brute-force WordPress logins aren’t that clever (no doubt that will change), but they may only make one request per IP every few hours in an attempt to avoid things like `fail2ban`. With large botnets this can still create significant load.

`WPf2b` allows you to specify a regex that will shortcut the login process if the requested username matches. For example,

```
Listing 2: Example: regex

```chmod
* Block logic
*/
define('WP_FAIL2BAN_BLOCKED_USERS', '^admin$');
```

will block any attempt to log in as `admin` before most of the core WordPress code is run. Unless you go crazy with it, a regex is usually cheaper than a call to the database, so this should help keep things running during an attack.

`WPf2b` doesn’t do anything to the regex other than make it case-insensitive.

If you’re running PHP 7 or later you can specify an array of users instead:

```
Listing 3: Example: Array of usernames

```chmod
* Block login
*/
define('WP_FAIL2BAN_BLOCKED_USERS', ['admin', 'another', 'user']);
```

**History**

Based on a suggestion from @jmadea.

**10.1.3 WP_FAIL2BAN_BLOCK_USERNAME_LOGIN**

**Force login with email address/prevent login with username.**

Default setting: `disabled`

New in version 4.3.0.

```
/*
 * Force login with email address/prevent login with username.
 */
define('WP_FAIL2BAN_BLOCK_USERNAME_LOGIN', true);
```

**Important:** You should define this in `wp-config.php` even if you are using the Premium version of `WPf2b`.

**See also:**

- `WP_FAIL2BAN_BLOCK_USER_ENUMERATION`
### 10.1.4 WP_FAIL2BAN_BLOCK_USER_ENUMERATION

Block user enumeration.

**Default setting:** *disabled*

New in version 2.1.0.

Changed in version 4.0.0: Now also blocks enumeration via the REST API.

```php
/**
 * Block user enumeration.
 */
define('WP_FAIL2BAN_BLOCK_USER_ENUMERATION', true);
```

**Important:** You should define this in `wp-config.php` even if you are using the Premium version of WPf2b.

**Warning:** If your theme has Author profile pages (e.g. TwentyTwenty) you will need to block username logins instead.

#### History

Based on a suggestion from @geeklol and a plugin by @ROIBOT.

See also:

- [WP_FAIL2BAN_BLOCK_USERNAME_LOGIN](#)

### 10.1.5 WP_FAIL2BAN_COMMENT_ATTEMPT_LOG

Facility for attempted comment events.

**Default:** `LOG_AUTH` or `LOG_AUTHPRIV`

New in version 5.0.0.

Listing 4: Example: Using LOG_LOCAL5

```php
/**
 * Facility for attempted comment events.
 */
define('WP_FAIL2BAN_COMMENT_ATTEMPT_LOG', LOG_LOCAL5);
```

See also:

- [WP_FAIL2BAN_LOG_COMMENT_ATTEMPTS](#)
- [WP_FAIL2BAN_USE_AUTHPRIV](#)
10.1.6 WP_FAIL2BAN_COMMENT_EXTRA_LOG

Facility for extra comment events.

Default: LOG_AUTH or LOG_AUTHPRIV

New in version 4.0.5.
Changed in version 4.4.0: Uses WP_FAIL2BAN_USE_AUTHPRIV
Deprecated since version 5.0.0.

Listing 5: Example: Using LOG_LOCAL5

```php
/**
 * Facility for extra comment events.
 */
define('WP_FAIL2BAN_COMMENT_EXTRA_LOG', LOG_LOCAL5);
```

See also:

- WP_FAIL2BAN_LOG_COMMENT_ATTEMPTS
- WP_FAIL2BAN_LOG_COMMENTS_EXTRA
- WP_FAIL2BAN_USE_AUTHPRIV

10.1.7 WP_FAIL2BAN_COMMENT_LOG

Facility for Comment class events.

Default facility: LOG_USER

New in version 3.5.0.

Listing 6: Example: Using LOG_LOCAL3

```php
/**
 * Facility for Comment events.
 */
define('WP_FAIL2BAN_COMMENT_LOG', LOG_LOCAL3);
```

See also:

- WP_FAIL2BAN_LOG_COMMENTS
- WP_FAIL2BAN_LOG_COMMENTS_EXTRA
- Facilities
10.1.8 WP_FAIL2BAN_DISABLE_LAST_LOG

Disable logging last event messages.

Default setting: false

New in version 4.3.0.

WP/2b v4.3.0 introduced a new dashboard widget to display the last 5 syslog messages. These messages are stored in the options table; for most sites this won’t be an issue, but, if you’re already doing a lot of updates to the options table or have some other esoteric configuration, you might want to disable this feature:

```php
/**
 * Disable logging last event messages.
 */
define('WP_FAIL2BAN_DISABLE_LAST_LOG', true);
```

10.1.9 WP_FAIL2BAN_EX_BLOCK_COUNTRIES

Default setting: disabled

Premium only

New in version 4.3.2.0.

10.1.10 WP_FAIL2BAN_EX_BLOCK_COUNTRIES_LOG

Facility for blocked country event

Default facility: LOG_USER

Premium only

New in version 4.3.2.0.

Listing 7: Example: Using LOG_LOCAL2

```php
/**
 * Facility for blocked country event.
 */
define('WP_FAIL2BAN_EX_BLOCK_COUNTRIES_LOG', LOG_LOCAL2);
```

10.1.11 WP_FAIL2BAN_EX_LOG_HEADERS

Default setting: disabled
**Premium only**

New in version 4.3.0.

Lorem

```php
define('WP_FAIL2BAN_EX_LOG_HEADERS', true);
```

### 10.1.12 WP_FAIL2BAN_EX_LOG_POST_DATA

Default setting: *disabled*

**Premium only**

New in version 4.3.0.

Lorem

```php
define('WP_FAIL2BAN_EX_LOG_POST_DATA', true);
```

### 10.1.13 WP_FAIL2BAN_EX_LOG_REFERER

Default setting: *disabled*

**Premium only**

New in version 4.3.0.

Lorem

```php
define('WP_FAIL2BAN_EX_LOG_REFERER', true);
```

### 10.1.14 WP_FAIL2BAN_EX_LOG_URL

Default setting: *disabled*

**Premium only**

New in version 4.3.0.

Lorem

```php
define('WP_FAIL2BAN_EX_LOG_URL', true);
```

### 10.1.15 WP_FAIL2BAN_EX_LOG_USER_AGENT

Default setting: *disabled*

**Premium only**

New in version 4.3.0.
10.1.16 WP_FAIL2BAN_EX_MAXMIND_LICENSE

*Premium only*

New in version 4.3.0.

```php
define('WP_FAIL2BAN_EX_MAXMIND_LICENSE', true);
```

10.1.17 WP_FAIL2BAN_EX_PROXY_CLOUDFLARE

*Premium only*

New in version 4.3.2.0.

10.1.18 WP_FAIL2BAN_EX_WAF

Control the state of the WAF.

Default setting: *disabled*

*Premium only*

New in version 5.1.0.

The state can be one of:

- **on** Enabled; blocks detected threats.
- **off** Disabled.
- **logging** Detects and logs threats.

Listing 8: Example: Enabling logging only

```php
/**
 * WAF state.
 */
define('WP_FAIL2BAN_EX_WAF', 'logging');
```

10.1.19 WP_FAIL2BAN_EX_WAF_LOG

Facility for WAF class events.

Default facility: **LOG_USER**
Listing 9: Example: Using LOG_LOCAL5

```php
/**
 * Facility for WAF events.
 */
define('WP_FAIL2BAN_EX_WAF_LOG', LOG_LOCAL5);
```

### 10.1.20 WP_FAIL2BAN_EX_WAF_SQLI_PLUGINS

Check plugin queries for SQLi.

**Default setting: disabled**

**Premium only**

New in version 5.1.0.

Listing 10: Example: Enabling SQLi detection for plugins

```php
/**
 * WAF: check plugin queries for SQLi.
 */
define('WP_FAIL2BAN_EX_WAF_SQLI_PLUGINS', true);
```

### 10.1.21 WP_FAIL2BAN_EX_WAF_SQLI_WordPress

Check WordPress core queries for SQLi.

**Default setting: disabled**

**Premium only**

New in version 5.1.0.

**Note:** This setting exists for testing; it is published for completeness.
Listing 11: Example: Enabling SQLi detection for WordPress core

```php
/**
 * WAF: check WordPress core queries for SQLi.
 */
define('WP_FAIL2BAN_EX_WAF_SQLI_WORDPRESS', true);
```

**Warning:** Do not enable this in normal operation without good technical justification.

### 10.1.22 WP_FAIL2BAN_EX_WAF_UPDATE_OPTION

Check that current user may update core WordPress options.

**Default setting:** *disabled*

**Premium only**

New in version 5.1.0.

When a plugin tries to update a core WordPress option, check the current user has `update_options` or `update_network_options` capabilities.


```php
/**
 * WAF: check caps for update_option().
 */
define('WP_FAIL2BAN_EX_WAF_UPDATE_OPTION', true);
```

### 10.1.23 WP_FAIL2BAN_EX_XMLRPC_BLOCKED

**Premium only**

New in version 4.3.2.0.

### 10.1.24 WP_FAIL2BAN_EX_XMLRPC_JETPACK

**Premium only**

New in version 4.3.2.0.

### 10.1.25 WP_FAIL2BAN_EX_XMLRPC_LOG

Facility for XML-RPC class events.
Default facility: LOG_USER

**Premium only**

New in version 4.3.2.0.

Listing 13: Example: Using LOG_LOCAL7

```php
/**
 * Facility for XML-RPC events.
 */
define('WP_FAIL2BAN_EX_WAF_LOG', LOG_LOCAL7);
```

10.1.26 WP_FAIL2BAN_EX_XMLRPC_TRUSTED_IPS

**Premium only**

New in version 4.3.2.0.

10.1.27 WP_FAIL2BAN_FREE_ONLY

New in version 4.4.0.

Default setting: `false`

Hide Freemius interface:

```php
define('WP_FAIL2BAN_FREE_ONLY', true);
```

10.1.28 WP_FAIL2BAN_HTTP_HOST

New in version 3.0.0.

This is for some flavours of Linux where `WP_FAIL2BAN_SYSLOG_SHORT_TAG` isn’t enough. If you configure your web server to set an environment variable named `WP_FAIL2BAN_SYSLOG_SHORT_TAG` on a per-virtual host basis, WPf2b will use that in the syslog tag. This allows you to configure a unique tag per site in a way that makes sense for your configuration, rather than some arbitrary truncation or hashing within the plugin.

**Note:** This feature has not been tested as extensively as others. While I’m confident it works, FreeBSD doesn’t have this problem so this feature will always be second-tier.
10.1.29 WP_FAIL2BAN_INSTALL_PATH

New in version 5.0.0.

The path to the fail2ban install.
The Site Health tool looks in the following locations:
• /etc/fail2ban
• /usr/local/etc/fail2ban
If your fail2ban install lives elsewhere you should define it in wp-config.php:

```php
define('WP_FAIL2BAN_INSTALL_PATH', '/var/fail2ban');
```

10.1.30 WP_FAIL2BAN_LOG_COMMENTS

Log submitted comments.

Default setting: disabled

New in version 3.5.0.

```php
/** *
 * Log submitted comments.
 */
define('WP_FAIL2BAN_LOG_COMMENTS', true);
```

The comment ID and IP will be written to WP_FAIL2BAN_COMMENT_LOG and matched by wordpress-extra.conf.

See also:
• WP_FAIL2BAN_COMMENT_LOG

10.1.31 WP_FAIL2BAN_LOG_COMMENTS_EXTRA

Log extra comment events.

New in version 4.0.0.

Deprecated since version 5.0.0: See WP_FAIL2BAN_LOG_COMMENT_ATTEMPTS

WPf2b can optionally log the following comment-related events:

Not found  Attempted comment on a non-existent post

WPF2B_EVENT_COMMENT_NOT_FOUND

Closed  Attempted comment on a post with closed comments
**WP fail2ban Manual**

**WPF2B_EVENT_COMMENT_CLOSED**

*Trash*  Attempted comment on a post in Trash

**WPF2B_EVENT_COMMENT_TRASH**

*Draft*  Attempted comment on a Draft post

**WPF2B_EVENT_COMMENT_DRAFT**

*Password-protected*  Attempted comment on a password-protected post

**WPF2B_EVENT_COMMENT_PASSWORD**

To enable this feature OR the event constants.

Listing 14: Example: enable *Closed* and *Draft*

```php
Listing 14: Example: enable Closed and Draft

/**
 * Log comments on 'Closed' and 'Draft' posts
 */
define('WP_FAIL2BAN_LOG_COMMENTS_EXTRA', WPF2B_EVENT_COMMENT_CLOSED | WPF2B_EVENT_COMMENT_DRAFT);
```

You must also load the constants before trying to use them. In *wp-config.php* add:

```php
include __DIR__.'/wp-content/plugins/wp-fail2ban/lib/constants.php';
```

or for the Premium version:

```php
include __DIR__.'/wp-content/plugins/wp-fail2ban-premium/lib/constants.php';
```

If you have non-standard paths, e.g. plugins in a different place, you’ll need to adjust the *include* path to suit.

The Post ID and IP will be written to *WP_FAIL2BAN_COMMENT_LOG* and matched by *wordpress-extra.conf*.

### 10.1.32 WP_FAIL2BAN_LOG_COMMENT_ATTEMPTS

**Log attempted comments.**

Default setting: *disabled*

New in version 5.0.0.

*WPf2b* can optionally log the following comment-related events:

<table>
<thead>
<tr>
<th>Event</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not found</td>
<td>Attempted comment on a non-existent post.</td>
</tr>
<tr>
<td>Closed</td>
<td>Attempted comment on a post with closed comments.</td>
</tr>
<tr>
<td>Trash</td>
<td>Attempted comment on a post in Trash.</td>
</tr>
<tr>
<td>Draft</td>
<td>Attempted comment on a Draft post.</td>
</tr>
<tr>
<td>Password-protected</td>
<td>Attempted comment on a password-protected post.</td>
</tr>
</tbody>
</table>
/**
 * Log attempted comments.
 */
define('WP_FAIL2BAN_LOG_COMMENT_ATTEMPTS', true);

The comment ID and IP will be written to WP_FAIL2BAN_COMMENT_ATTEMPT_LOG and matched by wordpress-soft.conf.

See also:
• WP_FAIL2BAN_COMMENT_ATTEMPT_LOG

10.1.33 WP_FAIL2BAN_LOG_PASSWORD_REQUEST

Log password reset requests.

Default setting: disabled

New in version 3.5.0.

/**
 * Log password reset requests.
 */
define('WP_FAIL2BAN_LOG_PASSWORD_REQUEST', true);

The username and IP will be written to WP_FAIL2BAN_PASSWORD_REQUEST_LOG and matched by wordpress-extra.conf.

10.1.34 WP_FAIL2BAN_LOG_PINGBACKS

Log pingbacks.

Default setting: disabled

New in version 2.2.0.

/**
 * Log pingbacks.
 */
define('WP_FAIL2BAN_LOG_PINGBACKS', true);

History

Based on a suggestion from @maghe.

See also:
• WP_FAIL2BAN_PINGBACK_LOG
10.1.35 WP_FAIL2BAN_LOG_SPAM

Log comments marked as spam.

Default setting: disabled

New in version 3.5.0.

```php
/**
 * Log spam comments.
 *
 define('WP_FAIL2BAN_LOG_SPAM', true);
```

The comment ID and IP will be written to $WP_FAIL2BAN_SPAM_LOG and matched by wordpress-hard.conf.

See also:
- WP_FAIL2BAN_SPAM_LOG

10.1.36 WP_FAIL2BAN_OPENLOG_OPTIONS

New in version 3.5.0.

This allows you to change the advanced syslog connection parameters.

If you know you need this you’ll know the options you need and what they do. If you don’t, you won’t.

If in doubt, leave this setting alone.

10.1.37 WP_FAIL2BAN_PASSWORD_REQUEST_LOG

Facility for logging password reset events.

Default facility: LOG_USER

New in version 4.0.0.

Listing 15: Example: Using LOG_LOCAL3

```php
/**
 * Facility for logging password reset events.
 */
 define('WP_FAIL2BAN_PASSWORD_REQUEST_LOG', LOG_LOCAL3);
```

See also:
- WP_FAIL2BAN_LOG_PASSWORD_REQUEST
10.1.38 WP_FAIL2BAN_PINGBACK_ERROR_LOG

New in version 4.0.5: Reserved for future use.

define('WP_FAIL2BAN_PINGBACK_ERROR_LOG', LOG_LOCAL3);

10.1.39 WP_FAIL2BAN_PINGBACK_LOG

Facility for logging pingbacks.

Default facility: LOG_USER

New in version 2.2.0.

Listing 16: Example: Using LOG_LOCAL3

```php
/**
 * Facility for logging pingbacks.
 */
define('WP_FAIL2BAN_PINGBACK_LOG', LOG_LOCAL3);
```

See also:

- WP_FAIL2BAN_LOG_PINGBACKS
- Facilities

10.1.40 WP_FAIL2BAN_PLUGIN_AUTH_LOG

Facility for “Auth” class plugin events.

Default: LOG_AUTH or LOG_AUTHPRIV

New in version 4.2.0.

Changed in version 4.4.0: Uses WP_FAIL2BAN_USE_AUTHPRIV

Listing 17: Example: Using LOG_LOCAL5

```php
/**
 * Facility for "Auth" class plugin events.
 */
define('WP_FAIL2BAN_PLUGIN_AUTH_LOG', LOG_LOCAL5);
```

See also:

- WP_FAIL2BAN_PLUGIN_LOG_AUTH
- Facilities
10.1.41 WP_FAIL2BAN_PLUGIN_COMMENT_LOG

Facility for “Comment” class plugin events.

Default facility: LOG_USER

New in version 4.2.0.

Listing 18: Example: Using LOG_LOCAL3

```php
/**
 * Facility for "Comment" class plugin events.
 */
define('WP_FAIL2BAN_PLUGIN_COMMENT_LOG', LOG_LOCAL3);
```

See also:

- WP_FAIL2BAN_PLUGIN_LOG_COMMENT
- Facilities

10.1.42 WP_FAIL2BAN_PLUGIN_LOG_AUTH

Enable logging plugin “Auth” class events.

Default setting: disabled

New in version 4.2.0.

```php
/**
 * Enable logging plugin "Auth" class events.
 */
define('WP_FAIL2BAN_PLUGIN_LOG_AUTH', true);
```

See also:

- WP_FAIL2BAN_PLUGIN_AUTH_LOG
- WP_FAIL2BAN_USE_AUTHPRIV

10.1.43 WP_FAIL2BAN_PLUGIN_LOG_COMMENT

Enable logging plugin “Comment” class events.

Default setting: disabled

New in version 4.2.0.
/**
 * Enable logging plugin "Comment" class events.
 */
define('WP_FAIL2BAN_PLUGIN_LOG_COMMENT', true);

See also:
• WP_FAIL2BAN_PLUGIN_COMMENT_LOG

10.1.44 WP_FAIL2BAN_PLUGIN_LOG_OTHER

Enable logging plugin “Other” class events.

Default setting: disabled

New in version 4.2.0.

/**
 * Enable logging plugin "Other" class events.
 */
define('WP_FAIL2BAN_PLUGIN_LOG_OTHER', true);

See also:
• WP_FAIL2BAN_PLUGIN_OTHER_LOG

10.1.45 WP_FAIL2BAN_PLUGIN_LOG_PASSWORD

Enable logging plugin “Password” class events.

Default setting: disabled

New in version 4.2.0.

/**
 * Enable logging plugin "Password" class events.
 */
define('WP_FAIL2BAN_PLUGIN_LOG_PASSWORD', true);

See also:
• WP_FAIL2BAN_PLUGIN_PASSWORD_LOG

10.1.46 WP_FAIL2BAN_PLUGIN_LOG_REST

Enable logging plugin “REST” class events.

Default setting: disabled

New in version 4.2.0.
/**
 * Enable logging plugin "REST" class events.
 */
define('WP_FAIL2BAN_PLUGIN_LOG_REST', true);

See also:
  - WP_FAIL2BAN_PLUGIN_REST_LOG

10.1.47 WP_FAIL2BAN_PLUGIN_LOG_SPAM

Enable logging plugin “Spam” class events.

Default setting: disabled

New in version 4.2.0.

/**
 * Enable logging plugin "Spam" class events.
 */
define('WP_FAIL2BAN_PLUGIN_LOG_SPAM', true);

See also:
  - WP_FAIL2BAN_PLUGIN_SPAM_LOG

10.1.48 WP_FAIL2BAN_PLUGIN_LOG_XMLRPC

Enable logging plugin “XML-RPC” class events.

Default setting: disabled

New in version 4.2.0.

/**
 * Enable logging plugin "XML-RPC" class events.
 */
define('WP_FAIL2BAN_PLUGIN_LOG_XMLRPC', true);

See also:
  - WP_FAIL2BAN_PLUGIN_XMLRPC_LOG

10.1.49 WP_FAIL2BAN_PLUGIN_OTHER_LOG

Facility for “Other” class plugin events.

Default facility: LOG_USER

New in version 4.2.0.
Listing 19: Example: Using LOG_LOCAL3

```php
/**
 * Facility for "Other" class plugin events.
 */
define('WP_FAIL2BAN_PLUGIN_OTHER_LOG', LOG_LOCAL3);
```

See also:

- WP_FAIL2BAN_PLUGIN_LOG_OTHER
- Facilities

10.1.50 WP_FAIL2BAN_PLUGIN_PASSWORD_LOG

Facility for “Password” class plugin events.

Default facility: LOG_USER

New in version 4.2.0.

Listing 20: Example: Using LOG_LOCAL3

```php
/**
 * Facility for "Password" class plugin events.
 */
define('WP_FAIL2BAN_PLUGIN_PASSWORD_LOG', LOG_LOCAL3);
```

See also:

- WP_FAIL2BAN_PLUGIN_LOG_PASSWORD
- Facilities

10.1.51 WP_FAIL2BAN_PLUGIN_REST_LOG

Facility for “REST” class plugin events.

Default facility: LOG_USER

New in version 4.2.0.

Listing 21: Example: Using LOG_LOCAL3

```php
/**
 * Facility for "REST" class plugin events.
 */
define('WP_FAIL2BAN_PLUGIN_REST_LOG', LOG_LOCAL3);
```

See also:

- WP_FAIL2BAN_PLUGIN_LOG_REST
- Facilities
10.1.52 WP_FAIL2BAN_PLUGIN_SPAM_LOG

Facility for “Spam” class plugin events.

Default: LOG_AUTH or LOG_AUTHPRIV

New in version 4.2.0.

Changed in version 4.4.0: Uses WP_FAIL2BAN_USE_AUTHPRIV

Listing 22: Example: Using LOG_LOCAL5

```php
/**
 * Facility for Spam class plugin events.
 */
define('WP_FAIL2BAN_PLUGIN_SPAM_LOG', LOG_LOCAL5);
```

See also:
- WP_FAIL2BAN_PLUGIN_LOG_SPAM
- Facilities

10.1.53 WP_FAIL2BAN_PLUGIN_XMLRPC_LOG

Facility for “XML-RPC” class plugin events.

Default facility: LOG_USER

New in version 4.2.0.

Listing 23: Example: Using LOG_LOCAL5

```php
/**
 * Facility for XML-RPC class events.
 */
define('WP_FAIL2BAN_PLUGIN_XMLRPC_LOG', LOG_LOCAL5);
```

See also:
- WP_FAIL2BAN_PLUGIN_LOG_XMLRPC
- Facilities

10.1.54 WP_FAIL2BAN_PROXIES

New in version 2.0.0.

Changed in version 4.0.0: Entries can be ignored by prefixing with #

Changed in version 5.0.0: Entries can include IPv6 addresses. Added “Unknown Proxy in X-Forwarded-For” message.

A list of IP addresses for the trusted proxies that will appear as the remote IP for a request. When defined:
• If the remote address appears in the **WP_FAIL2BAN_PROXIES** list, **WPf2b** will use the IP address from the *X-Forwarded-For* header

• If the remote address does not appear in the **WP_FAIL2BAN_PROXIES** list and there is an *X-Forwarded-For* header, **WPf2b** will return a 403 error

• If there’s no *X-Forwarded-For* header, **WPf2b** will behave as if **WP_FAIL2BAN_PROXIES** isn’t defined

To set **WP_FAIL2BAN_PROXIES**, add something like the following to `wp-config.php`:

```php
define('WP_FAIL2BAN_PROXIES', [ '192.168.0.42', '192.168.42.0/24' ]);
```

**Premium**

The list is processed and cached for performance. Updating the list from the UI will automatically clear the cache, but you must do so manually if you are using a `define()`.

See also:

• *Clearing the Cache*

**10.1.55 WP_FAIL2BAN_REMOTE_ADDR**

IP address to use for anonymised requests.

Default setting: **disabled**

New in version 3.6.0.

Some themes and plugins anonymise requests; I’m sure there’s a good reason.

```php
/**<*
 * IP address to use for anonymised requests.
 */
define('WP_FAIL2BAN_REMOTE_ADDR', '172.16.123.123');
```

**Attention:** You must define this in `wp-config.php` even if you are using the Premium version of **WPf2b**.

**10.1.56 WP_FAIL2BAN_SITE_HEALTH_SKIP_FILTERS**

Ignore filter files during **Health Check**.

New in version 5.0.0.

Default setting: **disabled**

**WPf2b** uses the WordPress Site Heath tool to check for obsolete and modified filter files.
However, this test will not work with many server configurations, e.g. if PHP is using chroot. In that case you should disable these checks to give you cleaner output from the Site Health tool (they’re otherwise harmless).

In `wp-config.php`:

```php
/*
 * Ignore filter files during Health Check.
 */
define('WP_FAIL2BAN_SITE_HEALTH_SKIP_FILTERS', true);
```

**Warning:** It is your responsibility to ensure your filters are kept current.

### 10.1.57 WP_FAIL2BAN_SPAM_LOG

**Facility for Spam class events.**

**Default:** `LOG_AUTH` or `LOG_AUTHPRIV`

New in version 4.0.0.

Changed in version 4.4.0: Uses `WP_FAIL2BAN_USE_AUTHPRIV`

See also:

- `WP_FAIL2BAN_USE_AUTHPRIV`
- `Spam Events`

**Listing 24: Example: Using LOG_LOCAL4**

```php
/*
 * Facility for Spam class events.
 */
define('WP_FAIL2BAN_SPAM_LOG', LOG_LOCAL4);
```

### 10.1.58 WP_FAIL2BAN_SYSLOG_SHORT_TAG

**Use short tag for syslog.**

**Default setting:** `disabled`

New in version 3.0.0.

Uses `wp` instead of `wordpress`.  

```php
define('WP_FAIL2BAN_SYSLOG_SHORT_TAG', true);
```

See also:

- `WP_FAIL2BAN_HTTP_HOST`
- `WP_FAIL2BAN_TRUNCATE_HOST`
10.1.59 WP_FAIL2BAN_TRUNCATE_HOST

New in version 3.5.0.

If you’ve set WP_FAIL2BAN_SYSLOG_SHORT_TAG and defining WP_FAIL2BAN_HTTP_HOST for each virtual host isn’t appropriate, you can set WP_FAIL2BAN_TRUNCATE_HOST to whatever value you need to make syslog happy:

```php
define('WP_FAIL2BAN_TRUNCATE_HOST', 8);
```

This does exactly what the name suggests: truncates the host name to the length you specify. As a result there’s no guarantee that what’s left will be enough to identify the site.

10.1.60 WP_FAIL2BAN_USE_AUTHPRIV

Use AUTHPRIV by default.

Default setting: disabled

New in version 4.4.0.

By default, WP/2b uses LOG_AUTH for logging various events. However, some systems use LOG_AUTHPRIV instead, but there’s no good run-time way to tell. If your system uses LOG_AUTHPRIV you should add the following to wp-config.php:

```php
/**
 * Use AUTHPRIV
 */
define('WP_FAIL2BAN_USE_AUTHPRIV', true);
```

Note: This only changes the default use of LOG_AUTH - it doesn’t override individual settings.

Attention: You must define this in wp-config.php even if you are using the Premium version of WP/2b.

See also:

- Logfile Reference

10.1.61 WP_FAIL2BAN_XMLRPC_LOG

New in version 3.6.0.

This is for debugging and future development.

Attackers are doing weird things with XML-RPC, so this logs the raw post data to the file specified:
define('WP_FAIL2BAN_XMLRPC_LOG', '/var/log/xml-rpc.log');

10.2 Logging
10.2.1 Premium
10.2.2 Deprecated
10.3 syslog
10.4 Block
10.4.1 Premium
10.5 Remote IPs
10.5.1 Premium
10.6 Plugins
10.7 Site Health
10.8 WAF
10.8.1 Premium
10.9 Miscellaneous
10.10 Development
10.11 Reserved
Facilities

While the full list of facilities is reproduced here for completeness, using anything but LOG_AUTH, LOG_AUTHPRIV, and/or LOG_LOCAL0..7 is unlikely to have the desired results. LOG_USER can be used for Notices, but Info messages are generally not saved.

<table>
<thead>
<tr>
<th>Facility</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG_AUTH</td>
<td>security/authorization messages (use LOG_AUTHPRIV instead in systems where that constant is defined)</td>
</tr>
<tr>
<td>LOG_AUTHPRIV</td>
<td>security/authorization messages (private)</td>
</tr>
<tr>
<td>LOG_CRON</td>
<td>clock daemon (cron and at)</td>
</tr>
<tr>
<td>LOG_DAEMON</td>
<td>other system daemons</td>
</tr>
<tr>
<td>LOG_KERN</td>
<td>kernel messages</td>
</tr>
<tr>
<td>LOG_LOCAL0...7</td>
<td>reserved for local use, these are not available in Windows</td>
</tr>
<tr>
<td>LOG_LPR</td>
<td>line printer subsystem</td>
</tr>
<tr>
<td>LOG_MAIL</td>
<td>mail subsystem</td>
</tr>
<tr>
<td>LOG_NEWS</td>
<td>USENET news subsystem</td>
</tr>
<tr>
<td>LOG_SYSLOG</td>
<td>messages generated internally by syslogd</td>
</tr>
<tr>
<td>LOG_USER</td>
<td>generic user-level messages</td>
</tr>
<tr>
<td>LOG_UUCP</td>
<td>UUCP subsystem</td>
</tr>
</tbody>
</table>
### Logfile Reference

<table>
<thead>
<tr>
<th>OS</th>
<th>Level</th>
<th>LOG_AUTH</th>
<th>LOG_AUTHPRIV</th>
<th>LOG_USER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CentOS 7</td>
<td></td>
<td>(not used)</td>
<td>/var/log/secure</td>
<td></td>
</tr>
<tr>
<td>FreeBSD</td>
<td>INFO</td>
<td>/var/log/auth/log</td>
<td>/var/log/auth/log</td>
<td>.</td>
</tr>
<tr>
<td></td>
<td>NOTICE</td>
<td>/var/log/auth/log</td>
<td>/var/log/auth/log</td>
<td>/var/log/messages</td>
</tr>
<tr>
<td>Ubuntu 18</td>
<td>(all)</td>
<td>/var/log/auth.log</td>
<td>/var/log/auth.log</td>
<td>/var/log/syslog</td>
</tr>
</tbody>
</table>
# Default Facilities

<table>
<thead>
<tr>
<th>Facility</th>
<th>Define</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG_AUTH</td>
<td>WP_FAIL2BAN_AUTH_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_COMMENT_EXTRA_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PINGBACK_ERROR_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PLUGIN_AUTH_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PLUGIN_SPAM_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_SPAM_LOG</td>
</tr>
<tr>
<td>LOG_USER</td>
<td>WP_FAIL2BAN_COMMENT_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PASSWORD_REQUEST_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PINGBACK_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PLUGIN_COMMENT_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PLUGIN_OTHER_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PLUGIN_PASSWORD_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PLUGIN_REST_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_PLUGIN_XMLRPC_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_XMLRPC_LOG</td>
</tr>
</tbody>
</table>

## 13.1 Premium

<table>
<thead>
<tr>
<th>Facility</th>
<th>Define</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG_USER</td>
<td>WP_FAIL2BAN_EX_BLOCK_COUNTRIES_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_EX_XMLRPC_LOG</td>
</tr>
<tr>
<td></td>
<td>WP_FAIL2BAN_EX_WAF_LOG</td>
</tr>
</tbody>
</table>
Note: Events may belong to more than one class.

14.1 Auth Events

Authentication events. Broadly, anything to do with users.

14.1.1 WPF2B_EVENT_AUTH_OK

Authentication OK.

<table>
<thead>
<tr>
<th>Facility</th>
<th>Level</th>
<th>Filter</th>
<th>Rule</th>
<th>EventData</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG_AUTH or LOG_AUTHPRIV</td>
<td>INFO</td>
<td>n/a</td>
<td>Accepted password for .* from &lt;HOST&gt;</td>
<td>$username</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

See also:

WP_FAIL2BAN_USE_AUTHPRIV

14.1.2 WPF2B_EVENT_AUTH_FAIL
Authentication failed.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>LOG_AUTH or LOG_AUTHPRIV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Level</td>
<td>NOTICE</td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordpress-soft.conf</td>
</tr>
<tr>
<td></td>
<td>Rules</td>
<td>Authentication failure for .* from &lt;HOST&gt; Authentication attempt for unknown user .* from &lt;HOST&gt;</td>
</tr>
<tr>
<td>EventData</td>
<td>$username</td>
<td>Username</td>
</tr>
<tr>
<td></td>
<td>$password</td>
<td>Password</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

See also:

WP_FAIL2BAN_USE_AUTHPRIV

14.1.3 WPF2B_EVENT_AUTH_EMPTY_USER

Empty Username.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>LOG_AUTH or LOG_AUTHPRIV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Level</td>
<td>NOTICE</td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordpress-soft.conf</td>
</tr>
<tr>
<td></td>
<td>Rule</td>
<td>Empty username from &lt;HOST&gt;</td>
</tr>
</tbody>
</table>

New in version 4.3.0.

See also:

WP_FAIL2BAN_USE_AUTHPRIV

14.1.4 WPF2B_EVENT_AUTH_BLOCK_USER

Blocked username.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>LOG_AUTH or LOG_AUTHPRIV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Level</td>
<td>NOTICE</td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordpress-hard.conf</td>
</tr>
<tr>
<td></td>
<td>Rule</td>
<td>Blocked authentication attempt for .* from &lt;HOST&gt;</td>
</tr>
<tr>
<td>EventData</td>
<td>$username</td>
<td>Username</td>
</tr>
<tr>
<td></td>
<td>$password</td>
<td>Password</td>
</tr>
</tbody>
</table>

New in version 4.3.0.

See also:
### 14.1.5 WPF2B_EVENT_AUTH_BLOCK_USER_ENUM

Blocked user enumeration.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>LOG_AUTH or LOG_AUTHPRIV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Level</td>
<td>NOTICE</td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordPress-hard.conf</td>
</tr>
<tr>
<td></td>
<td>Rule</td>
<td>Blocked user enumeration attempt from &lt;HOST&gt;</td>
</tr>
</tbody>
</table>

New in version 4.3.0.

See also:

- WP_FAIL2BAN_USE_AUTHPRIV
- WP_FAIL2BAN_BLOCKED_USERS

### 14.1.6 WPF2B_EVENT_AUTH_BLOCK_USERNAME_LOGIN

Blocked login with username.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>LOG_AUTH or LOG_AUTHPRIV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Level</td>
<td>NOTICE</td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordPress-hard.conf</td>
</tr>
<tr>
<td></td>
<td>Rule</td>
<td>Blocked username authentication attempt for .* from &lt;HOST&gt;</td>
</tr>
<tr>
<td>EventData</td>
<td>$username</td>
<td>Username</td>
</tr>
<tr>
<td></td>
<td>$password</td>
<td>Password</td>
</tr>
</tbody>
</table>

New in version 4.3.0.

See also:

- WP_FAIL2BAN_USE_AUTHPRIV
- WP_FAIL2BAN_BLOCK_USER_ENUMERATION

### 14.1.7 WPF2B_EVENT_REST_AUTH_OK

REST Authentication OK.

*Not currently used.*

### 14.1.8 WPF2B_EVENT_REST_AUTH_FAIL
REST Authentication failed.

Not currently used.

14.2 Block Events

Things that have been actively prevented.

14.2.1 WP2F_EVENT_BLOCK_COUNTRY

Attempted access from a blocked Country.

Premium only

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>LOG_AUTH or LOG_AUTHPRIV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Level</td>
<td>NOTICE</td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordpress-hard.conf</td>
</tr>
<tr>
<td>Rule</td>
<td>Blocked access from country '...' from &lt;HOST&gt;</td>
<td></td>
</tr>
</tbody>
</table>

New in version 4.3.0.

See also:

WP_FAIL2BAN_USE_AUTHPRIV

14.2.2 WP2F_EVENT_XMLRPC_BLOCKED

Blocked RPC-XML request.

Premium only

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BAN_EX_XMLRPC_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Level</td>
<td>NOTICE</td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordpress-hard.conf</td>
</tr>
<tr>
<td>Rule</td>
<td>XML-RPC request blocked from &lt;HOST&gt;</td>
<td></td>
</tr>
</tbody>
</table>

New in version 4.3.0.

See also:

WP_FAIL2BAN_EX_XMLRPC_BLOCKED

14.3 Comment Events

Anything to do with comments.
14.3.1 WPF2B_EVENT_COMMENT

Comment submitted.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BAN_COMMENT_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>INFO</td>
<td></td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordpress-extra.conf</td>
</tr>
<tr>
<td>Rule</td>
<td>Comment \d+ from &lt;HOST&gt;</td>
<td></td>
</tr>
<tr>
<td>EventData</td>
<td>$ref_id</td>
<td>Comment ID</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

14.3.2 WPF2B_EVENT_COMMENT_SPAM

Comment marked as spam.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BAN_SPAM_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>NOTICE</td>
<td></td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordpress-hard.conf</td>
</tr>
<tr>
<td>Rule</td>
<td>Spam comment \d+ from &lt;HOST&gt;</td>
<td></td>
</tr>
<tr>
<td>EventData</td>
<td>$ref_id</td>
<td>Comment ID</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

14.3.3 WPF2B_EVENT_COMMENT_SPAM_AKISMET

Comment marked as spam.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BAN_SPAM_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>NOTICE</td>
<td></td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordpress-hard.conf</td>
</tr>
<tr>
<td>Rule</td>
<td>Akismet discarded spam comment from &lt;HOST&gt;</td>
<td></td>
</tr>
</tbody>
</table>

New in version 5.0.0.

14.3.4 WPF2B_EVENT_COMMENT_NOT_FOUND

Attempted comment on non-existent Post.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BAN_COMMENT_EXTRA_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>NOTICE</td>
<td></td>
</tr>
<tr>
<td>fail2ban</td>
<td>Filter</td>
<td>wordpress-extra.conf</td>
</tr>
<tr>
<td>Rule</td>
<td>Comment attempt on non-existent post \d+ from &lt;HOST&gt;</td>
<td></td>
</tr>
<tr>
<td>EventData</td>
<td>$ref_id</td>
<td>Post ID</td>
</tr>
</tbody>
</table>

New in version 4.0.0.
14.3.5 WPF2B_EVENT_COMMENT_CLOSED

Attempted comment on closed Post.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BANCOMMENT_EXTRA_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>NOTICE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fail2ban</th>
<th>Filter</th>
<th>wordpress-extra.conf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule</td>
<td>Comment attempt on closed post \d+ from &lt;HOST&gt;</td>
<td></td>
</tr>
<tr>
<td>EventData</td>
<td>$ref_id</td>
<td>Comment ID</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

14.3.6 WPF2B_EVENT_COMMENT_TRASH

Attempted comment on post in Trash.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BANCOMMENT_EXTRA_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>NOTICE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fail2ban</th>
<th>Filter</th>
<th>wordpress-extra.conf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule</td>
<td>Comment attempt on trash post \d+ from &lt;HOST&gt;</td>
<td></td>
</tr>
<tr>
<td>EventData</td>
<td>$ref_id</td>
<td>Comment ID</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

14.3.7 WPF2B_EVENT_COMMENT_DRAFT

Attempted comment on draft Post.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BANCOMMENT_EXTRA_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>NOTICE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fail2ban</th>
<th>Filter</th>
<th>wordpress-extra.conf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule</td>
<td>Comment attempt on draft post \d+ from &lt;HOST&gt;</td>
<td></td>
</tr>
<tr>
<td>EventData</td>
<td>$ref_id</td>
<td>Comment ID</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

14.3.8 WPF2B_EVENT_COMMENT_PASSWORD

Attempted comment on password-protected Post.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BANCOMMENT_EXTRA_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>NOTICE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fail2ban</th>
<th>Filter</th>
<th>wordpress-extra.conf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule</td>
<td>Comment attempt on password-protected post \d+ from &lt;HOST&gt;</td>
<td></td>
</tr>
<tr>
<td>EventData</td>
<td>$ref_id</td>
<td>Comment ID</td>
</tr>
</tbody>
</table>
New in version 4.0.0.

## 14.4 Other Events

Whatever doesn’t fit better into another Class.

### 14.4.1 WPF2B_EVENT_OTHER_UNKNOWN_PROXY

Attempted access via an untrusted proxy.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>LOG_AUTH or LOG_AUTHPRIV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>NOTICE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fail2ban</th>
<th>Filter</th>
<th>wordpress-hard.conf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule</td>
<td>Untrusted X-Forwarded-For header from &lt;HOST&gt;</td>
<td></td>
</tr>
</tbody>
</table>

New in version 5.0.0.

See also:

`WP_FAIL2BAN_USE_AUTHPRIV`

## 14.5 Password Events

Password-related events.

### 14.5.1 WPF2B_EVENT_PASSWORD_REQUEST

Password reset request.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BAN_PASSWORD_REQUEST_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>NOTICE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fail2ban</th>
<th>Filter</th>
<th>wordpress-extra.conf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule</td>
<td>Password reset requested for .* from &lt;HOST&gt;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EventData</th>
<th>$username</th>
<th>Username</th>
</tr>
</thead>
</table>

New in version 4.0.0.

## 14.6 REST Events

REST API events.

## 14.7 Spam Events

Anything that can be classified as spam, not just comments.
14.8 XML-RPC Events

XML-RPC events, including Pingbacks.

14.8.1 WPF2B_EVENT_XMLRPC_PINGBACK

Pingback.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>Level</th>
<th>Filter</th>
<th>Rule</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WP_FAIL2BAN_PINGBACK_LOG</td>
<td>INFO</td>
<td>wordpress-soft.conf</td>
<td>Pingback requested from &lt;HOST&gt;</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

14.8.2 WPF2B_EVENT_XMLRPC_PINGBACK_BOGUS

Bogus Pingback.

*Premium only*

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>Level</th>
<th>Filter</th>
<th>Rule</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WP_FAIL2BAN_PINGBACK_LOG</td>
<td>NOTICE</td>
<td>wordpress-hard.conf</td>
<td>.*; Bogus Pingback from &lt;HOST&gt;</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

14.8.3 WPF2B_EVENT_XMLRPC_PINGBACK_ERROR

Pingback error.

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>Level</th>
<th>Filter</th>
<th>Rule</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WP_FAIL2BAN_PINGBACK_LOG</td>
<td>NOTICE</td>
<td>wordpress-hard.conf</td>
<td>Pingback error .* generated from &lt;HOST&gt;</td>
</tr>
</tbody>
</table>

New in version 4.0.0.

14.9 WAF Events

Web Application Firewall (WAF) events.
14.9.1 WPF2B_EVENT_WAF_SQLI

SQLi detected.

*Premium only*

<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BAN_EX_WAF_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>WARNING if enabled, NOTICE if logging only</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fail2ban</th>
<th>Filter</th>
<th>wordpress-hard.conf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rule</td>
<td>SQLi blocked from &lt;HOST&gt;</td>
<td></td>
</tr>
</tbody>
</table>

New in version 5.1.0.

14.9.2 WPF2B_EVENT_WAF_UPDATE_OPTION

Unauthorised call to `update_option()` detected.

*Premium only*

```
<table>
<thead>
<tr>
<th>syslog</th>
<th>Facility</th>
<th>WP_FAIL2BAN_EX_WAF_LOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>WARNING if enabled, NOTICE if logging only</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>fail2ban</th>
<th>Filter</th>
<th>wordpress-hard.conf</th>
</tr>
</thead>
</table>
| Rule     | WAF: `update_option(<option_name>)=<option_value> from <HOST>`, where:

- `<option_name>` is the name of the core WordPress option being updated.
- `<option_value>` is the JSON-encoded value being set. The following options are used for encoding:
  - JSON_NUMERIC_CHECK
  - JSON_UNESCAPED_SLASHES
  - JSON_PRESERVE_ZERO_FRACTION
  - JSON_INVALID_UTF8_SUBSTITUTE |
```

New in version 5.1.0.
15.1 wordpress-hard.conf

```diff
# Fail2Ban filter for WordPress hard failures
# Auto-generated: 2019-04-18T14:45:30+00:00
#
[INCLUDES]
before = common.conf

[Definition]
_daemon = (?:wordpress|wp)

failregex = ^%(__prefix_line)sAuthentication attempt for unknown user .* from <HOST>$
^%(__prefix_line)sREST authentication attempt for unknown user .* from <HOST>$
^%(__prefix_line)sXML-RPC authentication attempt for unknown user .* from <HOST>$
^%(__prefix_line)sXML-RPC multicall authentication failure from <HOST>$
^%(__prefix_line)sPingback error .* generated from <HOST>$

ignoreregex =
```

# DEV Notes:
# Requires the 'WP fail2ban' plugin:
# https://wp-fail2ban.com/
# 
# Author: Charles Lecklider
15.2 wordpress-soft.conf

```
# Fail2Ban filter for WordPress soft failures
# Auto-generated: 2019-04-18T14:45:30+00:00
#

[INCLUDES]
before = common.conf

[Definition]
_daemon = (?:wordpress|wp)

failregex = ^%(__prefix_line)sAuthentication failure for .* from <HOST>$
            ^%(__prefix_line)sREST authentication failure for .* from <HOST>$
            ^%(__prefix_line)sXML-RPC authentication failure for .* from <HOST>$

ignoreregex =

# DEV Notes:
# Requires the 'WP fail2ban' plugin:
# https://wp-fail2ban.com/
#
# Author: Charles Lecklider
```

15.3 wordpress-extra.conf

```
# Fail2Ban filter for WordPress extra failures
# Auto-generated: 2019-04-18T14:45:30+00:00
#

[INCLUDES]
before = common.conf

[Definition]
_daemon = (?:wordpress|wp)

failregex = ^%(__prefix_line)sComment \d+ from <HOST>$
            ^%(__prefix_line)sComment post not found \d+ from <HOST>$
            ^%(__prefix_line)sComments closed on post \d+ from <HOST>$
            ^%(__prefix_line)sComment attempt on trash post \d+ from <HOST>$
            ^%(__prefix_line)sComment attempt on draft post \d+ from <HOST>$
            ^%(__prefix_line)sComment attempt on password-protected post \d+ from <HOST>$
            ^%(__prefix_line)sPassword reset requested for .* from <HOST>$

ignoreregex =

# DEV Notes:
# Requires the 'WP fail2ban' plugin:
# https://wp-fail2ban.com/
```
# Author: Charles Leclider
PHP Namespace Index

0

org\lecklider\charles\wordpress\wp_fail2ban\premium,
<table>
<thead>
<tr>
<th>Column</th>
<th>Method/Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>blog_id</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData property), 28</td>
</tr>
<tr>
<td>C</td>
<td>content_type</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData property), 28</td>
</tr>
<tr>
<td>E</td>
<td>event</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData property), 28</td>
</tr>
<tr>
<td></td>
<td>(class in org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData), 29</td>
</tr>
<tr>
<td>G</td>
<td>getBlogId()</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 29</td>
</tr>
<tr>
<td></td>
<td>getContentType()</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 30</td>
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<tr>
<td></td>
<td>getEventId()</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 29</td>
</tr>
<tr>
<td></td>
<td>getHttpHeaders()</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 30</td>
</tr>
<tr>
<td></td>
<td>getIp()</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 29</td>
</tr>
<tr>
<td></td>
<td>getIsoCountryCode()</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 30</td>
</tr>
<tr>
<td></td>
<td>getPassword()</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 29</td>
</tr>
<tr>
<td></td>
<td>getPluginId()</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 30</td>
</tr>
<tr>
<td></td>
<td>getPostData()</td>
</tr>
<tr>
<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 30</td>
</tr>
<tr>
<td></td>
<td>getReferer()</td>
</tr>
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<td></td>
<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 30</td>
</tr>
<tr>
<td></td>
<td>getRefId()</td>
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<tr>
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<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 29</td>
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<td>getRequestMethod()</td>
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<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 28</td>
</tr>
<tr>
<td></td>
<td>getUrl()</td>
</tr>
<tr>
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<td>(org\lecklider\charles\wordpress\wp_FAIL2ban\premium\EventData method), 30</td>
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