



RIPSTECH

SECURITY ANALYSIS REPORT

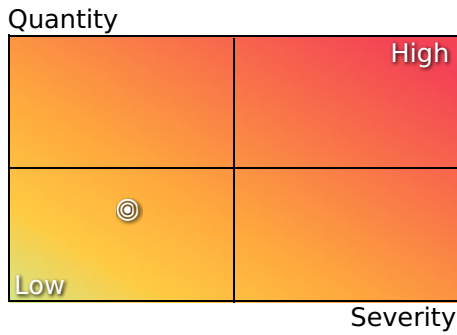
Wordpress Report
Date: 2019-04-08

1. Executive Summary

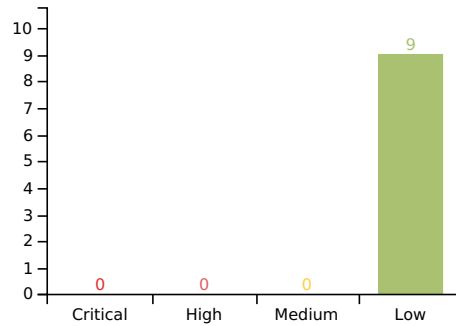
Project Name: Wordpress Report
Analysis Start Date: 2019-04-06, 10:50
Analysis End Date: 2019-04-06, 10:59
Analysis Time: 8m 52s
Engine Version(s): php-preparser 3.0.0
php-engine 3.0.4

Analyzed Files: 715
Analyzed LOC: 356,851
Analyzed Issue Types: 210
Detected Issues: 9
Max Issues per Type: 500

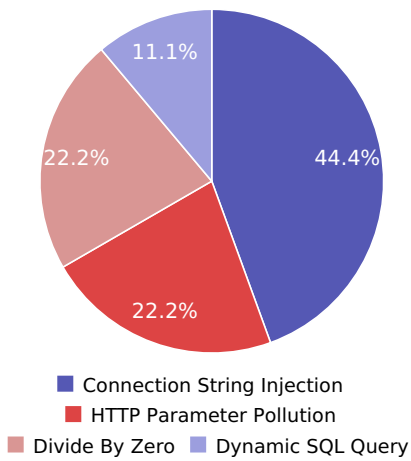
Risk Matrix



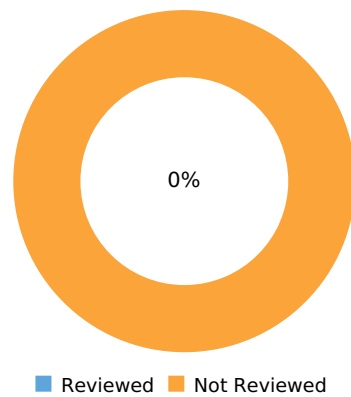
Vulnerabilities by Risk



Top Vulnerability Types



Review Status



2. Issue Breakdown

The detected security issues in this project are categorized as follows.

Severity	Vulnerability Type	CWE	OWASP Top 10	SANS 25	PCI DSS	ASVS	Issues
Low	Connection String Injection	99	A2	Rank 16	6.5.4		4
Low	HTTP Parameter Pollution	233	A2	Not Ranked	6.5.4	5.1.1	2
Low	Divide By Zero	369		Not Ranked			2
Low	Dynamic SQL Query	89		Not Ranked			1

3. Issue Details

In the following, all security issues detected in the analyzed project are presented in detail. The issues are grouped by vulnerability type and by the detected markup context. A *markup context* represents the position of user-supplied data (*source*) used in a sensitive operation (*sink*). Depending on the markup context, an attacker can alter the operation and different security mechanisms must be applied in order to patch the security issue thoroughly.

3.1. Connection String Injection

OWASP Top 10: 2017: A2
CWE: 99
SANS 25: Rank 16
PCI DSS: 6.5.4
Severity: Low

A connection string injection vulnerability occurs when user input is used as a connection credential to a resource. An attacker can misuse this behavior by performing brute force attacks against the credentials or by tricking the server into connecting to their own resource that interacts with the web application in an unexpected way.

A connection string injection vulnerability occurs when user input is used as part of the connection details to a resource. If any part of the connection details needs to be dynamic, it is recommended to restrict it by a whitelist.

Issue #87349 - wordpress/wp-includes/Requests/Transport/fsockopen.php: 123

Path: wordpress/wp-includes/Requests/Transport/fsockopen.php
Line: 123
Sink: stream_socket_client
Source: _POST
Taint: HTTP

Code Summary

The POST parameter 'file' is received in line 83 of the file wordpress/wp-admin/plugin-editor.php.

The user-supplied data is concatenated into uri markup in line 117 of the file wordpress/wp-includes/Requests/Transport/fsockopen.php in the method Requests_Transport_fsockopen::request().

The user-supplied data is then used unsanitized in the sensitive operation stream_socket_client() in line 123 of the file wordpress/wp-includes/Requests/Transport/fsockopen.php in the method Requests_Transport_fsockopen::request(). Please refer to the context and description for further information.

wordpress/wp-admin/includes/file.php

```
352 function wp_edit_theme_plugin_file( $args ) {  
  :  
356 $file = $args['file'];  
  :  
370 $plugin = null;  
  :  
403 $stylesheet = $args['theme'];  
  :  
  :
```

```
496 $scrape_key = md5( rand() );
:
498 $scrape_nonce = strval( rand() );
:
502 $scrape_params = array(
503 'wp_scrape_key' => $scrape_key,
504 'wp_scrape_nonce' => $scrape_nonce,
505 );
:
526 $url = add_query_arg( compact( 'plugin', 'file' ), admin_url( 'plugin-editor.php' ) );
:
528 $url = add_query_arg(
529 array(
530 'theme' => $stylesheet,
531 'file' => $file,
532 ),
533 admin_url( 'theme-editor.php' )
534 );
:
536 $url = admin_url();
:
538 $url = add_query_arg( $scrape_params, $url );
539 $r = wp_remote_get( $url, compact( 'cookies', 'headers', 'timeout' ) );
:
608 }
```

wordpress/wp-admin/plugin-editor.php

```
83 $r = wp_edit_theme_plugin_file( wp_unslash( $_POST ) );
```

wordpress/wp-includes/Requests/Transport/fsockopen.php

```
15 class Requests_Transport_fsockopen implements Requests_Transport {
:
58 public function request($url, $headers = array(), $data = array(), $options = array()) {
:
61 $url_parts = parse_url($url);
:
65 $host = $url_parts['host'];
:
72 $remote_socket = 'ssl://' . $host;
:
74 $url_parts['port'] = 443;
:
109 $remote_socket = 'tcp://' . $host;
:
115 $url_parts['port'] = 80;
:
117 $remote_socket .= ':' . $url_parts['port'];
:
123 $socket = stream_socket_client($remote_socket, $errno, $errstr, ceil($options['connect_timeout']), STREAM_CLIENT_CONNECT, $context);
:
292 }
:
444 }
```

wordpress/wp-includes/class-http.php

```
28 class WP_Http {
:
149 public function request( $url, $args = array() ) {
:
265 $url = wp_http_validate_url( $url );
:
}
```

```
268 $url = wp_kses_bad_protocol( $url, array( 'http', 'https', 'ssl' ) );
:
384 $requests_response = Requests::request( $url, $headers, $data, $type, $options );
:
437 }
:
610 public function get( $url, $args = array() ) {
:
612 $r = wp_parse_args( $args, $defaults );
613 return $this->request( $url, $r );
614 }
:
1061 }
```

wordpress/wp-includes/class-requests.php

```
21 class Requests {
:
357 public static function request($url, $headers = array(), $data = array(), $type = self::GET, $options = array()) {
:
379 $response = $transport->request($url, $headers, $data, $options);
:
384 }
:
980 }
```

wordpress/wp-includes/http.php

```
168 function wp_remote_get( $url, $args = array() ) {
169 $http = _wp_http_get_object();
170 return $http->get( $url, $args );
171 }
```

URI Context

The following snippet(s) do not represent actual code but the tainted context.

```
tcp://P_576_:P_600_:P_600_:P_600_:U_1788_?'Array'=https://target/wp-admin/theme-editor.php?
theme=P_1790_&file= $_POST['file'] &
```

Issue #87412 - wordpress/wp-includes/Requests/Transport/fsockopen.php: 123

Path: wordpress/wp-includes/Requests/Transport/fsockopen.php
Line: 123
Sink: stream_socket_client
Source: _POST
Taint: HTTP

Code Summary

The POST parameter 'file' is received in line 117 of the file wordpress/wp-admin/theme-editor.php.

The user-supplied data is concatenated into uri markup in line 117 of the file wordpress/wp-includes/Requests/Transport/fsockopen.php in the method Requests_Transport_fsockopen::request().

The user-supplied data is then used unsanitized in the sensitive operation stream_socket_client() in line 123 of the file wordpress/wp-includes/Requests/Transport/fsockopen.php in the method Requests_Transport_fsockopen::request(). Please refer to the context and description for further information.

wordpress/wp-admin/includes/file.php

```
352 function wp_edit_theme_plugin_file( $args ) {
  :
356 $file = $args['file'];
  :
370 $plugin = null;
  :
403 $stylesheet = $args['theme'];
  :
496 $scrape_key = md5( rand() );
  :
498 $scrape_nonce = strval( rand() );
  :
502 $scrape_params = array(
503 'wp_scrape_key' => $scrape_key,
504 'wp_scrape_nonce' => $scrape_nonce,
505 );
  :
526 $url = add_query_arg( compact( 'plugin', 'file' ), admin_url( 'plugin-editor.php' ) );
  :
528 $url = add_query_arg(
529 array(
530 'theme' => $stylesheet,
531 'file' => $file,
532 ),
533 admin_url( 'theme-editor.php' )
534 );
  :
536 $url = admin_url();
  :
538 $url = add_query_arg( $scrape_params, $url );
539 $r = wp_remote_get( $url, compact( 'cookies', 'headers', 'timeout' ) );
  :
608 }
```

wordpress/wp-admin/theme-editor.php

```
117 $r = wp_edit_theme_plugin_file( wp_unslash( $_POST ) );
```

wordpress/wp-includes/Requests/Transport/fsockopen.php

```
15 class Requests_Transport_fsockopen implements Requests_Transport {
  :
58 public function request($url, $headers = array(), $data = array(), $options = array()) {
  :
61 $url_parts = parse_url($url);
  :
65 $host = $url_parts['host'];
  :
72 $remote_socket = 'ssl://' . $host;
  :
74 $url_parts['port'] = 443;
  :
109 $remote_socket = 'tcp://' . $host;
  :
115 $url_parts['port'] = 80;
  :
117 $remote_socket .= ':' . $url_parts['port'];
  :
123 $socket = stream_socket_client($remote_socket, $errno, $errstr, ceil($options['connect_timeout']), STREAM_CLIENT_CONNECT, $context);
  :
292 }
  :
444 }
```

wordpress/wp-includes/class-http.php

```
28 class WP_Http {
:
:
149 public function request( $url, $args = array() ) {
:
:
265 $url = wp_http_validate_url( $url );
:
:
268 $url = wpkses_bad_protocol( $url, array( 'http', 'https', 'ssl' ) );
:
:
384 $requests_response = Requests::request( $url, $headers, $data, $type, $options );
:
:
437 }
:
:
610 public function get( $url, $args = array() ) {
:
:
612 $r = wp_parse_args( $args, $defaults );
613 return $this->request( $url, $r );
614 }
:
:
1061 }
```

wordpress/wp-includes/class-requests.php

```
21 class Requests {
:
:
357 public static function request($url, $headers = array(), $data = array(), $type = self::GET, $options = array()) {
:
:
379 $response = $transport->request($url, $headers, $data, $options);
:
:
384 }
:
:
980 }
```

wordpress/wp-includes/http.php

```
168 function wp_remote_get( $url, $args = array() ) {
169 $http = _wp_http_get_object();
170 return $http->get( $url, $args );
171 }
```

URI Context

The following snippet(s) do not represent actual code but the tainted context.

```
tcp://P_576_:P_600_:P_600_:P_600_:U_1788_?'Array'=https://target/wp-admin/theme-editor.php?
theme=P_1790_&file= $_POST['file'] &
```

Issue #87560 - wordpress/wp-includes/Requests/Transport/fsockopen.php: 123

Path: wordpress/wp-includes/Requests/Transport/fsockopen.php
Line: 123
Sink: stream_socket_client
Source: _POST
Taint: HTTP

Code Summary

The POST parameter 'file' is received in line 4420 of the file wordpress/wp-admin/includes/ajax-actions.php in the function wp_ajax_edit_theme_plugin_file().

The user-supplied data is concatenated into uri markup in line 117 of the file wordpress/wp-

includes/Requests/Transport/fsockopen.php in the method Requests_Transport_fsockopen::request().

The user-supplied data is then used unsanitized in the sensitive operation stream_socket_client() in line 123 of the file wordpress/wp-includes/Requests/Transport/fsockopen.php in the method Requests_Transport_fsockopen::request(). Please refer to the context and description for further information.

wordpress/wp-admin/includes/ajax-actions.php

```
4419 function wp_ajax_edit_theme_plugin_file() {
4420     $r = wp_edit_theme_plugin_file( wp_unslash( $_POST ) ); // Validation of args is done in wp_edit_theme_plugin_f
         ile().
         :
4438 }
```

wordpress/wp-admin/includes/file.php

```
352 function wp_edit_theme_plugin_file( $args ) {
         :
356     $file = $args['file'];
         :
370     $plugin = null;
         :
403     $stylesheet = $args['theme'];
         :
496     $scrape_key = md5( rand() );
         :
498     $scrape_nonce = strval( rand() );
         :
502     $scrape_params = array(
503         'wp_scrape_key' => $scrape_key,
504         'wp_scrape_nonce' => $scrape_nonce,
505     );
         :
526     $url = add_query_arg( compact( 'plugin', 'file' ), admin_url( 'plugin-editor.php' ) );
         :
528     $url = add_query_arg(
529         array(
530             'theme' => $stylesheet,
531             'file' => $file,
532         ),
533         admin_url( 'theme-editor.php' )
534     );
         :
536     $url = admin_url();
         :
538     $url = add_query_arg( $scrape_params, $url );
539     $r = wp_remote_get( $url, compact( 'cookies', 'headers', 'timeout' ) );
         :
608 }
```

wordpress/wp-includes/Requests/Transport/fsockopen.php

```
15 class Requests_Transport_fsockopen implements Requests_Transport {
         :
58     public function request($url, $headers = array(), $data = array(), $options = array()) {
         :
61     $url_parts = parse_url($url);
         :
65     $host = $url_parts['host'];
         :
72     $remote_socket = 'ssl://' . $host;
```

```
:
74  $url_parts['port'] = 443;
:
109 $remote_socket = 'tcp://' . $host;
:
115 $url_parts['port'] = 80;
:
117 $remote_socket .= ':' . $url_parts['port'];
:
123 $socket = stream_socket_client($remote_socket, $errno, $errstr, ceil($options['connect_timeout']), STREAM_CLIENT_CONNECT, $context);
:
292 }
:
444 }
```

wordpress/wp-includes/class-http.php

```
28  class WP_Http {
:
149 public function request( $url, $args = array() ) {
:
265 $url = wp_http_validate_url( $url );
:
268 $url = wpkses_bad_protocol( $url, array( 'http', 'https', 'ssl' ) );
:
384 $requests_response = Requests::request( $url, $headers, $data, $type, $options );
:
437 }
:
610 public function get( $url, $args = array() ) {
:
612 $r = wp_parse_args( $args, $defaults );
613 return $this->request( $url, $r );
614 }
:
1061 }
```

wordpress/wp-includes/class-requests.php

```
21  class Requests {
:
357 public static function request($url, $headers = array(), $data = array(), $type = self::GET, $options = array()) {
:
379 $response = $transport->request($url, $headers, $data, $options);
:
384 }
:
980 }
```

wordpress/wp-includes/http.php

```
168 function wp_remote_get( $url, $args = array() ) {
169 $http = _wp_http_get_object();
170 return $http->get( $url, $args );
171 }
```

URI Context

The following snippet(s) do not represent actual code but the tainted context.

```
tcp://P_576_:P_600_:P_600_:P_600_:U_1788_?'Array'=https://target/wp-admin/theme-editor.php?
theme=P_1790_&file= $_POST['file'] &
```

Issue #87617 - wordpress/wp-includes/Requests/Transport/fsockopen.php: 123

Path: wordpress/wp-includes/Requests/Transport/fsockopen.php
Line: 123
Sink: stream_socket_client
Source: _POST
Taint: HTTP

Code Summary

The POST parameter '_wp_attached_file' is received in line 5610 of the file wordpress/wp-includes/post.php in the function wp_get_attachment_url().

The user-supplied data is concatenated into uri markup in line 117 of the file wordpress/wp-includes/Requests/Transport/fsockopen.php in the method Requests_Transport_fsockopen::request().

The user-supplied data is then used unsanitized in the sensitive operation stream_socket_client() in line 123 of the file wordpress/wp-includes/Requests/Transport/fsockopen.php in the method Requests_Transport_fsockopen::request(). Please refer to the context and description for further information.

wordpress/wp-includes/Requests/Transport/fsockopen.php

```
15 class Requests_Transport_fsockopen implements Requests_Transport {
  :
58 public function request($url, $headers = array(), $data = array(), $options = array()) {
  :
61 $url_parts = parse_url($url);
  :
65 $host = $url_parts['host'];
  :
72 $remote_socket = 'ssl://' . $host;
  :
74 $url_parts['port'] = 443;
  :
109 $remote_socket = 'tcp://' . $host;
  :
115 $url_parts['port'] = 80;
  :
117 $remote_socket .= ':' . $url_parts['port'];
  :
123 $socket = stream_socket_client($remote_socket, $errno, $errstr, ceil($options['connect_timeout']), STREAM_CLIENT_CONNECT, $context);
  :
292 }
  :
444 }
```

wordpress/wp-includes/class-http.php

```
28 class WP_Http {
  :
149 public function request( $url, $args = array() ) {
  :
265 $url = wp_http_validate_url( $url );
  :
268 $url = wp_kses_bad_protocol( $url, array( 'http', 'https', 'ssl' ) );
  :
384 $requests_response = Requests::request( $url, $headers, $data, $type, $options );
  :
437 }
```

```
:
610 public function get( $url, $args = array() ) {
:
612 $r = wp_parse_args( $args, $defaults );
613 return $this->request( $url, $r );
614 }
:
1061 }
```

wordpress/wp-includes/class-oembed.php

```
19 class WP_oEmbed {
:
254 public function get_provider( $url, $args = "" ) {
:
279 $provider = $this->discover( $url );
:
283 }
:
345 public function get_data( $url, $args = "" ) {
346 $args = wp_parse_args( $args );
:
348 $provider = $this->get_provider( $url, $args );
:
361 }
:
375 public function get_html( $url, $args = "" ) {
:
397 $data = $this->get_data( $url, $args );
:
413 }
:
423 public function discover( $url ) {
:
425 $args = array(
426 'limit_response_size' => 153600, // 150 KB
427 );
:
439 $args = apply_filters( 'oembed_remote_get_args', $args, $url );
:
442 $request = wp_safe_remote_get( $url, $args );
:
501 }
:
747 }
```

wordpress/wp-includes/class-requests.php

```
21 class Requests {
:
357 public static function request($url, $headers = array(), $data = array(), $type = self::GET, $options = array()) {
:
379 $response = $transport->request($url, $headers, $data, $options);
:
384 }
:
980 }
```

wordpress/wp-includes/embed.php

```
98 function wp_oembed_get( $url, $args = "" ) {
99 $oembed = _wp_oembed_get_object();
100 return $oembed->get_html( $url, $args );
101 }
```

wordpress/wp-includes/http.php

```
67 function wp_safe_remote_get( $url, $args = array() ) {
68     $args['reject_unsafe_urls'] = true;
69     $http = _wp_http_get_object();
70     return $http->get( $url, $args );
71 }
```

wordpress/wp-includes/widgets/class-wp-widget-media-video.php

```
17 class WP_Widget_Media_Video extends WP_Widget_Media {
:
:
114 public function render_media( $instance ) {
115     $instance = array_merge( wp_list_pluck( $this->get_instance_schema(), 'default' ), $instance );
:
:
122 $src = $instance['url'];
:
:
124 $src = wp_get_attachment_url( $attachment->ID );
:
:
147 echo $this->inject_video_max_width_style( wp_oembed_get( $src ) );
:
:
149 }
:
:
258 }
```

URI Context

The following snippet(s) do not represent actual code but the tainted context.

```
tcp://P_576 :P_600 :P_600 :P_600 :http: UPLOADS/sites/123
```

3.1. HTTP Parameter Pollution

ASVS: 4.0.1: 5.1.1
OWASP Top 10: 2017: A2
CWE: 233
PCI DSS: 6.5.4
Severity: Low

An HTTP Parameter Pollution (HPP) vulnerability occurs when unsanitized user input is used to construct a URL and its query parameters. An attacker can modify the URL and insert additional query string parameters that could overwrite existing ones and thereby change the intended behavior of the request.

To prevent HTTP Parameter Pollution attacks, it is recommended to urlencode() all values that are embedded into query string parameters such that no additional parameters can be added.

Issue #87359 - wordpress/wp-includes/Requests/Transport/cURL.php: 375

Path: wordpress/wp-includes/Requests/Transport/cURL.php
Line: 375
Sink: curl_setopt
Source: _POST
Taint: HTTP

Code Summary

The POST parameter '_wp_attached_file' is received in line 453 of the file wordpress/wp-includes/post.php in the function get_attached_file().

The user-supplied data is then used unsanitized in the sensitive operation `curl_setopt()` in line 375 of the file `wordpress/wp-includes/Requests/Transport/cURL.php` in the method `Requests_Transport_cURL::setup_handle()`. Please refer to the context and description for further information.

wordpress/wp-admin/includes/class-plugin-upgrader.php

```
21  class Plugin_Updater extends WP_Updater {
  :
90  public function install( $package, $args = array() ) {
  :
106  $this->run(
107  array(
108  'package' => $package,
109  'destination' => WP_PLUGIN_DIR,
110  'clear_destination' => false, // Do not overwrite files.
111  'clear_working' => true,
112  'hook_extra' => array(
113  'type' => 'plugin',
114  'action' => 'install',
115  ),
116  )
117  );
  :
130 }
  :
487 }
```

wordpress/wp-admin/includes/class-wp-upgrader.php

```
51  class WP_Updater {
  :
251 public function download_package( $package ) {
  :
278 $download_file = download_url( $package );
  :
285 }
  :
658 public function run( $options ) {
  :
670 $options = wp_parse_args( $options, $defaults );
  :
702 $options = apply_filters( 'upgrader_package_options', $options );
  :
733 $download = $this->download_package( $options['package'] );
  :
817 }
  :
904 }
```

wordpress/wp-admin/includes/file.php

```
973 function download_url( $url, $timeout = 300 ) {
  :
986 $response = wp_safe_remote_get(
987 $url,
988 array(
989 'timeout' => $timeout,
990 'stream' => true,
991 'filename' => $tmpfname,
992 )
993 );
  :
1038 }
```

wordpress/wp-admin/update.php

```
149 $file_upload = new File_Upload_Updater( 'pluginzip', 'package' );
:
161 $upgrader = new Plugin_Updater( new Plugin_Installer_Skin( compact( 'type', 'title', 'nonce', 'url' ) ) );
162 $result = $upgrader->install( $file_upload->package );
```

wordpress/wp-includes/Requests/Transport/cURL.php

```
15 class Requests_Transport_cURL implements Requests_Transport {
:
130 public function request($url, $headers = array(), $data = array(), $options = array()) {
131 $this->hooks = $options['hooks'];
:
133 $this->setup_handle($url, $headers, $data, $options);
:
185 }
:
309 protected function setup_handle($url, $headers, $data, $options) {
:
323 $url = self::format_get($url, $data);
:
375 curl_setopt($this->handle, CURLOPT_URL, $url);
:
393 }
:
542 }
```

wordpress/wp-includes/class-http.php

```
28 class WP_Http {
:
149 public function request( $url, $args = array() ) {
:
265 $url = wp_http_validate_url( $url );
:
268 $url = wpkses_bad_protocol( $url, array( 'http', 'https', 'ssl' ) );
:
384 $requests_response = Requests::request( $url, $headers, $data, $type, $options );
:
437 }
:
610 public function get( $url, $args = array() ) {
:
612 $r = wp_parse_args( $args, $defaults );
613 return $this->request( $url, $r );
614 }
:
1061 }
```

wordpress/wp-includes/class-requests.php

```
21 class Requests {
:
357 public static function request($url, $headers = array(), $data = array(), $type = self::GET, $options = array()) {
:
379 $response = $transport->request($url, $headers, $data, $options);
:
384 }
:
980 }
```

wordpress/wp-includes/http.php

```
67 function wp_safe_remote_get( $url, $args = array() ) {
68 $args['reject_unsafe_urls'] = true;
```

```
69 $http = _wp_http_get_object();
70 return $http->get( $url, $args );
71 }
```

Parameter Context

The following snippet(s) do not represent actual code but the tainted context.

```
/sites/123/Y-m-d H:i:s/Y-m-d H:i:s/wordpress/UPLOADS/sites/123/Y-m-d H:i:s/Y-m-d H:i:s:false
```

Issue #87616 - wordpress/wp-includes/Requests/Transport/cURL.php: 375

Path: wordpress/wp-includes/Requests/Transport/cURL.php
Line: 375
Sink: curl_setopt
Source: _POST
Taint: HTTP

Code Summary

The POST parameter '_wp_attached_file' is received in line 5610 of the file wordpress/wp-includes/post.php in the function wp_get_attachment_url().

The user-supplied data is concatenated into parameter markup in line 613 of the file wordpress/wp-includes/class-http.php in the method WP_Http::get().

The user-supplied data is then used unsanitized in the sensitive operation curl_setopt() in line 375 of the file wordpress/wp-includes/Requests/Transport/cURL.php in the method Requests_Transport_cURL::setup_handle(). Please refer to the context and description for further information.

wordpress/wp-includes/Requests/Transport/cURL.php

```
15 class Requests_Transport_cURL implements Requests_Transport {
:
130 public function request($url, $headers = array(), $data = array(), $options = array()) {
131 $this->hooks = $options['hooks'];
:
133 $this->setup_handle($url, $headers, $data, $options);
:
185 }
:
309 protected function setup_handle($url, $headers, $data, $options) {
:
323 $url = self::format_get($url, $data);
:
375 curl_setopt($this->handle, CURLOPT_URL, $url);
:
393 }
:
542 }
```

wordpress/wp-includes/class-http.php

```
28 class WP_Http {
:
149 public function request( $url, $args = array() ) {
:
265 $url = wp_http_validate_url( $url );
:
}
```



```
268 $url = wp_kses_bad_protocol( $url, array( 'http', 'https', 'ssl' ) );
:
384 $requests_response = Requests::request( $url, $headers, $data, $type, $options );
:
437 }
:
610 public function get( $url, $args = array() ) {
:
612 $r = wp_parse_args( $args, $defaults );
613 return $this->request( $url, $r );
614 }
:
1061 }
```

wordpress/wp-includes/class-oembed.php

```
19 class WP_oEmbed {
:
254 public function get_provider( $url, $args = "" ) {
:
279 $provider = $this->discover( $url );
:
283 }
:
345 public function get_data( $url, $args = "" ) {
346 $args = wp_parse_args( $args );
:
348 $provider = $this->get_provider( $url, $args );
:
361 }
:
375 public function get_html( $url, $args = "" ) {
:
397 $data = $this->get_data( $url, $args );
:
413 }
:
423 public function discover( $url ) {
:
425 $args = array(
426 'limit_response_size' => 153600, // 150 KB
427 );
:
439 $args = apply_filters( 'oembed_remote_get_args', $args, $url );
:
442 $request = wp_safe_remote_get( $url, $args );
:
501 }
:
747 }
```

wordpress/wp-includes/class-requests.php

```
21 class Requests {
:
357 public static function request($url, $headers = array(), $data = array(), $type = self::GET, $options = array()) {
:
379 $response = $transport->request($url, $headers, $data, $options);
:
384 }
:
980 }
```

wordpress/wp-includes/embed.php

```
98 function wp_oembed_get( $url, $args = " ) {
99     $oembed = _wp_oembed_get_object();
100     return $oembed->get_html( $url, $args );
101 }
```

wordpress/wp-includes/http.php

```
67 function wp_safe_remote_get( $url, $args = array() ) {
68     $args['reject_unsafe_urls'] = true;
69     $http = _wp_http_get_object();
70     return $http->get( $url, $args );
71 }
```

wordpress/wp-includes/widgets/class-wp-widget-media-video.php

```
17 class WP_Widget_Media_Video extends WP_Widget_Media {
:
:
114 public function render_media( $instance ) {
115     $instance = array_merge( wp_list_pluck( $this->get_instance_schema(), 'default' ), $instance );
:
:
122     $src = $instance['url'];
:
:
124     $src = wp_get_attachment_url( $attachment->ID );
:
:
147     echo $this->inject_video_max_width_style( wp_oembed_get( $src ) );
:
:
149 }
:
:
258 }
```

Parameter Context

The following snippet(s) do not represent actual code but the tainted context.

```
P_600_:P_600_:P_600_:http: UPLOADS/sites/123
```

3.1. Divide By Zero

CWE: 369

Severity: Low

The application potentially divides a value by zero. This can be abused by an attacker to provoke errors that could leave the application in an undefined behavior.

To resolve this issue you can check if the divisor is zero before using it.

Issue #87100 - wordpress/wp-includes/theme-compat/embed-content.php: 42

Path: wordpress/wp-includes/theme-compat/embed-content.php

Line: 42

Sink:

Source: _POST

Taint: HTTP

Code Summary

The POST parameter 'file_metadata[sizes][0][height]' is received in line 39 of the file wordpress/wp-includes/theme-compat/embed-content.php.

A code quality issue was detected in line 42 of the file `wordpress/wp-includes/theme-compat/embed-content.php`. Please refer to the context and description for further information.

wordpress/wp-includes/theme-compat/embed-content.php

```
39 $meta = wp_get_attachment_metadata( $thumbnail_id );
:
41 foreach ( $meta['sizes'] as $size => $data ) {
42 if ( $data['height'] > 0 && $data['width'] / $data['height'] > $aspect_ratio ) {
43 $aspect_ratio = $data['width'] / $data['height'];
44 $measurements = array( $data['width'], $data['height'] );
45 $image_size = $size;
46 }
47 }
```

Math Context

The following snippet(s) do not represent actual code but the tainted context.

```
$_POST['file_metadata']['sizes'][$data['*']]['height']
```

Issue #87515 - wordpress/wp-admin/includes/image.php: 320

Path: `wordpress/wp-admin/includes/image.php`

Line: 320

Sink:

Source: `_POST`

Taint: Multi-Step

Code Summary

A file upload allows to bypass a validation of the value `'_wp_attached_file'` that is received in line 453 of the file `wordpress/wp-includes/post.php` in the function `get_attached_file()`.

A code quality issue was detected in line 320 of the file `wordpress/wp-admin/includes/image.php` in the function `wp_exif_frac2dec()`. Please refer to the context and description for further information.

wordpress/wp-admin/custom-header.php

```
14 class Custom_Image_Header {
:
758 public function step_2() {
:
770 $file = get_attached_file( $attachment_id, true );
:
774 $data = $this->step_2_manage_upload();
:
776 $file = $data['file'];
:
805 wp_update_attachment_metadata( $attachment_id, wp_generate_attachment_metadata( $attachment_id, $file
) );
:
872 }
:
1502 }
```

wordpress/wp-admin/includes/image.php

```
317 function wp_exif_frac2dec( $str ) {
:
:
```

```
320 return $n / $d;
:
323 }
```

Math Context

The following snippet(s) do not represent actual code but the tainted context.

```
wordpress/UPLOADS/sites/123/ $_POST['_wp_attached_file']
```

3.1. Dynamic SQL Query

CWE: 89

Severity: Low

A SQL query is constructed dynamically by concatenation. This can lead to SQL injection attacks.

It is recommended to use prepared statements for all SQL queries. The prepared statement itself should only use placeholders for data and never concatenate data directly into the query.

Issue #87277 - wordpress/wp-includes/post.php: 5476

Path: wordpress/wp-includes/post.php

Line: 5476

Sink: execute

Source: _POST

Taint: HTTP

Code Summary

A code quality issue was detected in line 5476 of the file wordpress/wp-includes/post.php in the function wp_delete_attachment_files(). Please refer to the context and description for further information.

wordpress/wp-includes/post.php

```
5382 function wp_delete_attachment( $post_id, $force_delete = false ) {
:
5404 $meta = wp_get_attachment_metadata( $post_id );
:
5450 wp_delete_attachment_files( $post_id, $meta, $backup_sizes, $file );
:
5455 }
:
5468 function wp_delete_attachment_files( $post_id, $meta, $backup_sizes, $file ) {
:
if ( ! $wpdb->get_row( $wpdb->prepare( "SELECT meta_id FROM $wpdb->postmeta WHERE meta_key = '_wp_
5476 attachment_metadata' AND meta_value LIKE %s AND post_id <> %d", '%' . $wpdb->esc_like( $meta['thumb'] )
. '%', $post_id ) ) ) {
:
5523 }
```

SQL Context

The following snippet(s) do not represent actual code but the tainted context.

```
SELECT meta_id FROM WHERE meta_key = '_wp_attachment_metadata' AND meta_value LIKE %
$_POST['file_metadata']['thumb'] % AND post_id <> 1
```