## Monstra 3.0.4 Insecure Direct Object Reference

## Proof-of-Concept

## Submitted by:

Author: Dhananjay Bajaj

Email: dhananjaybajaj1995@gmail.com

LinkedIn: https://www.linkedin.com/in/dhananjaybajaj

## Proof-of-Concept

Hello,

I would like to report a vulnerability that I have found on Monstra 3.0.4. I have found a Insecure Direct Object Reference (IDOR) attack is possible. This software has IDOR in

'admin/index.php?id=users&action=edit&user\_id=2' with an impact of changing details such as password of users including administrators.

Hereby I am adding the information related to my finding so that you can have a brief view.

Technical Description: Insecure Direct Object References occur when an application provides direct access to objects based on user-supplied input. As a result of this vulnerability attackers can bypass authorization and access resources in the system directly, for example database records or files. Insecure Direct Object References allow attackers to bypass authorization and access resources directly by modifying the value of a parameter used to directly point to an object. Such resources can be database entries belonging to other users, files in the system, and more. This is caused by the fact that the application takes user supplied input and uses it to retrieve an object without performing sufficient authorization checks.

[Attack Vectors]

Steps:

1.) Here it is visible that 'tester1' has role 'Editor' and 'Admin' has 'Admin' role.

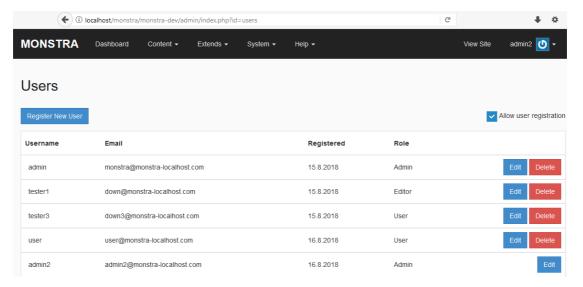


Fig. 1

2.) Now submitting a request to change password from the admin area while being authorized as the 'testerl' user.

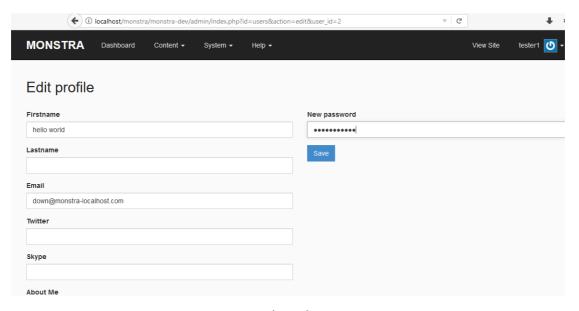


Fig. 2

- 3.) Now intercepting the request and changing the 'user\_id' parameter to '1' which is the user id of an administrator user as it is the first user created.
- 4. ) Upon submitting this request the response is received as 302 and then we are redirected to the admin user's profile changing page where the application show the message 'Monstra says: This is not your profile...' but as shown in the image the changes have been made to the profile of the respective user and the password change occurs this way.

```
GST /monstra/monstra-dev/admin/index.php?id=users(action=editGuser_id=6 HTTP/L.1
Host: localhost
User-Agent: Notilla/5.0 (Windows NT 10.0; Win64; x64; rv:56.0) Gecho/C0100101 Firefox/56.0
Accept: text/html, application/whtml+xml, application/xml;q=0.9, */*;q=0.8
Accept-Encoding: gsip, deflate
Referer:
http://localhost/monstra/monstra-dev/admin/index.php?id=users(action=editGuser_id=2
Cookie: pma_langen: HTMSSSID=ames/gee8duydrawqwfwddahm9; showhints=1;
phphyAdmin=9ctw19tdf8016bp4inhehtc=drvi15;
ggqqg545qu10C_gmassiO9e3; e107_cookiesf31ebbee80516fd5e7b;
untas=1107_cookies_a.3bs526ade305iabbee80516fd5e7b;
untas=1107_cookies_a.3bs526ade305iabbee80516fd5e7b;
untas=1107_cookies_a.3bs526ade305iabbee80516fd5e7b;
untas=1107_cookies_b.a.des505iabbee80516fd5e7b;
untas=1107_cookies_b.a.des505iabbee
```

Fig. 3