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Reported on Aug 11th 2022

2FA secret is disclosed in JWT token after user logs into his account in Cockpit Content Platform \leq v2.2.1 allowing attacker to bypass the 2FA code.

- 1.Login with your admin account and enable 2FA in your account and logout.
- 2.Go to <http://yourserver.com/cockpit221/auth/login> and enter your username and password

2.Go to <http://yourserver.com/cockpit221/auth/login> and enter your username and password and intercept the request in BurpSuite or Owasp Zap.

4. Now you will get a response like this from `http://yourserver.com/cockpit221/auth/check`.
HTTP/1.0 200 OK

Date: Thu, 11 Aug 2022 11:24:32 GMT

X-Powered-By: PHP/8.1.6

Cache-Control: no-store, no-cache, must-revalidate

Vary: Accept-Encoding

Connection: close

```
{"success":true,"user":
```

Chat with us

uPw0UNJ5vpjQ1JER0J0V0FFV0V1QZINHMI1BXIN00ZQ04H1X0.Q3DL1pZv4D116909IuVRZSe4F1ISZL
FOGIVCvGVcqbdK"}}}

5.Now, copy the payload of JWT token and decode it. The structure of JWT token is like this
header.payload.signature .

6.Decode the payload. You will notice that the Authentication Secret token is disclosed in the
payload JWT token.

7.Copy the Authenticator Secret token and provide it to Google Authenticator . @2FA is
bypassed.

8.Attacker can exploit this vulnerability to bypass 2FA.

Proof Of Concept Video :

<https://drive.google.com/file/d/1rKCtY5W7XyluApHtVAdWOusHJpw8b8OF/view?usp=sharing>

Impact

Account Takeover

CVE

CVE-2022-2818

(Published)

Vulnerability Type

CWE-305: Authentication Bypass by Primary Weakness

Severity

Critical (9.8)

Registry

Other

Affected Version

2.2.1

Visibility

Public

Status

Fixed

Found by



whoisshuvam

@whoisshuvam

master ▼

Chat with us

Fixed by



Artur

@ohheinz
maintainer

This report was seen 688 times.

We are processing your report and will contact the **cockpit-hq/cockpit** team within 24 hours.
4 months ago

We have contacted a member of the **cockpit-hq/cockpit** team and are waiting to hear back
3 months ago

Artur 3 months ago

Maintainer

Hi 🙋 One question. You said that the attacker would decode the JWT payload. But how would the attacker know the secret to decode the payload?

Cheers
Artur

Artur 3 months ago

Maintainer

Ahh, my bad. Yes, that needs to be fixed 👍

Artur validated this vulnerability 3 months ago

Fix is on the way

whoisshuvam has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

Artur marked this as fixed in 2.2.2 with commit 4bee1b 3 months ago

Artur has been awarded the fix bounty ✓

Chat with us

Issue has been resolved the fix being 

This vulnerability will not receive a CVE 

 **Artur** gave praise 3 months ago

Thank you very much for reporting 

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

whoisshuvam 3 months ago

Researcher

Hi @maintainer ,

Thanks for quick fix. May I know when will the next release be published?

Kind Regards,
@whoisshuvam

Artur 3 months ago

Maintainer

v2.2.2 is planned for Monday (2022-08-15)

whoisshuvam 3 months ago

Researcher

Hi @admin ,

Can you make the report private. The new release v2.2.2 will be made on Monday. Hi @maintainer , I would be glad if you could approve for CVE.

Kind Regards,
@whoisshuvam

Artur 3 months ago

Maintainer

approved 

whoisshuvam 3 months ago

Hi @admin,

Chat with us

Can you please assign an CVE for this vulnerability 🤖 since its approved by maintainer and fix has been deployed.

Kind Regards,
Suvam

Jamie Slome [3 months ago](#)

[Admin](#)

Sorted 👍

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