huntr

No Rate Limit On migrate-email Endpoint Leads to Bruteforce Attack in kareadita/kavita



✓ Valid) Reported on Oct 26th 2022

The migrate-email endpoint is requiring Email, Username, and Password parameter. This endpoint contain authentication functionality that doesn't have any protection from brute-force attack, which allows an attacker to try every possible password combination without any restriction.

CWE-307: Improper Restriction of Excessive Authentication Attempts

POC

1. Send this request to Burpsuite Intruder

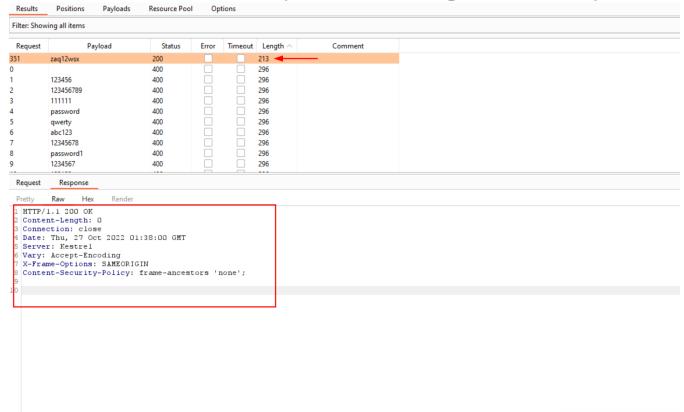
```
POST /api/account/migrate-email HTTP/1.1
Host: 192.168.189.132:5000
Accept: application/json, text/plain, */*
DNT: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (k
Referer: http://192.168.189.132:5000/admin/dashboard
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9,id-ID;q=0.8,id;q=0.7,ar-SA;q=0.6,ar;q=0.5
Connection: close
Content-Type: application/json
Content-Length: 67

{"Email":"xxx@local.com",
"Username":"admin",
"Password":"xxx"
}
```

2. Mark on the Password value



3. Bruteforce attack with 1000 password list and get valid admin password



Impact

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An attacker could perform a brute-force attack targeting normal and administrative users, using different passwords and eventually gain access to the targeted account, without any restriction.

References

Brute Force Attack

CVE

CVE-2022-3993 (Published)

Vulnerability Type

CWE-305: Authentication Bypass by Primary Weakness

Severity

Critical (9.4)

Registry

Other

Affected Version

0600

Visibility

Public

Status

Fixed

Found by



This report was seen 424 times.

We are processing your report and will contact the **kareadita/kavita** team within 24 hours. a month ago

We have contacted a member of the **kareadita/kavita** team and are waiting to hear back a month ago

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A kareadita/kavita maintainer has acknowledged this report a month ago

This is valid and I will fix it. Nice catch

Joe Milazzo validated this vulnerability 25 days ago

zetc0de has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

Joe Milazzo marked this as fixed in 0.6.0.3 with commit f8db37 25 days ago

The fix bounty has been dropped x

This vulnerability has been assigned a CVE 🗸

zetc0de 25 days ago Researcher

@admin can disclose this report? Also can to assign cve for this vulnerability?

Joe Milazzo 25 days ago Maintainer

This is not ready for disclosure. Hence why it's not disclosed. When it is in our stable release, I will disclose this (and all orhers raised by you).

Joe Milazzo published this vulnerability 15 days ago

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