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## [AIT-SA-20210215-01] CVE-2020-24914: QCubed PHP Object Injection

From: sec-advisory <sec-advisory () ait.ac.at>

Date: Fri, 12 Mar 2021 10:46:40 +0000

QCubed PHP Object Injection

```
Identifier: | AIT-SA-20210215-01 |
Target: | QCubed Framework |
Vendor: | QCubed |
Version: | all versions including 3.1.1 |
CVE: | CVE-2020-24914 |
Accessibility: | Remote |
Severity: | Critical |
Author: | Wolfgang Hotwagner (AIT Austrian Institute of Technology) |
```

### SUMMARY

QCubed is a PHP Model-View-Controller Rapid Application Development framework. (<https://github.com/qcubed/qcubed>)

### VULNERABILITY DESCRIPTION

A PHP object injection bug in profile.php in qcubed (all versions including 3.1.1) unserializes the untrusted data of the POST-variable "strProfileData" and allows an unauthenticated attacker to execute code via a crafted POST request.

qcubed/assets/php/profile.php:

```
<?php
require_once('./qcubed.inc.php');

//Exit gracefully if called directly or profiling data is missing.
if ( !isset($_POST['intDatabaseIndex']) && !isset($_POST['strProfileData']) && !isset($_POST['strReferrer']) )
    exit('Nothing to profile. No Database Profiling data received.');
```

```
if ( !isset($_POST['intDatabaseIndex']) || !isset($_POST['strProfileData']) || !isset($_POST['strReferrer']) )
    throw new Exception('Database Profiling data appears to have been corrupted.');
```

```
$intDatabaseIndex = intval($_POST['intDatabaseIndex']);
$strReferrer = QApplication::HtmlEntities($_POST['strReferrer']);

$objProfileArray = unserialize(base64_decode($_POST['strProfileData'])); //<-VULNERABLE CODE
$objProfileArray = QType::Cast($objProfileArray, QType::ArrayType);
```

### VULNERABLE VERSIONS

All versions including 3.1.1 are affected.

### TESTED VERSIONS

QCubed 3.1.1

### IMPACT

An unauthenticated attacker could execute code remotely.

### MITIGATION

A patch was delivered by QCubed that allows to disable the profile-functionality.

### VENDOR CONTACT TIMELINE

```
| 2020-04-19 | Contacting the vendor |
| 2020-04-19 | Vendor replied |
| 2020-05-01 | Vendor released a patch at Github |
| 2021-02-15 | Public disclosure |
```

### ADVISORY URL

[<https://www.ait.ac.at/ait-sa-20210215-01-unauthenticated-remote-code-execution-qcubed>] (<https://www.ait.ac.at/ait-sa-20210215-01-unauthenticated-remote-code-execution-qcubed>)

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