

Multiple Vulnerabilities in TCExam

Critical

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Synopsis

A researcher at Tenable discovered multiple vulnerabilities in TCExam 14.8.1.

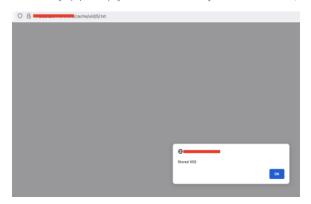
CVE-2021-20111 - Stored Cross Site Scripting Vulnerability in tce_filemanager.php

CVSSv3 Base Score: 4.6

CVSSv3 Vector: AV:N/AC:L/PR:L/UI:R/S:U/C:L/I:L/A:N

CWE: 79

A stored cross-site scripting vulnerability exists in TCExam <= 14.8.1. Valid files uploaded via tce_filemanager.php with a filename beggining with a period will be rendered as text/html. An attacker with access to tce_filemanager.php could upload a malicious javascript payload which would be triggered when another user views the file (either via tce_filemanager.php, other pages which allow the viewing of files, or via direct link).



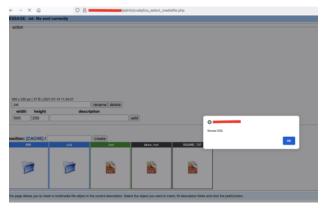
${\tt CVE-2021-20112-Stored\ Cross\ Site\ Scripting\ Vulnerability\ in\ tce_select_mediafile.php}$

CVSSv3 Base Score: 4.6

CVSSv3 Vector: AV:N/AC:L/PR:L/UI:R/S:U/C:L/I:L/A:N

CWE: 79

A stored cross-site scripting vulnerability exists in TCExam <= 14.8.1. Valid files uploaded via tce_select_mediafile.php with a filename beggining with a period will be rendered as text/html. An attacker with access to tce_select_mediafile.php could upload a malicious javascript payload which would be triggered when another user views the file (either via tce_select_mediafile.php, other pages which allow the viewing of files, or via direct link).



CVE-2021-20113 - Unauthenticated User Enumeration

CVSSv3 Base Score: 5.3

CVSSv3 Vector: AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

CWE-203

An exposure of sensitive information vulnerability exists in TCExam <= 14.8.1. If a password reset request was made for an email address that was not registered with a user then we would be presented with an 'unknown email' error. If an email is given that is registered with a user then this error will not appear. A malicious actor could abuse this to enumerate the email addresses of registered users.

CVE-2021-20114 - Unauthenticated Access to Sensitive Objects via /cache/backup/

CVSSv3 Base Score: 9.1

CVSSv3 Vector: AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:N

CWE: 200

When installed following the default/recommended settings, TCExam <= 14.8.1 allowed unauthenticated users to access the /cache/backup/ directory, which included sensitive database backup files.

Otenable



Among other things, these backup files contain usernames, password hashes and other user information that was supplied on signup.



CVE-2021-20115 - Stored Cross Site Scripting Vulnerability in tce_filemanager.php

CVSSv3 Base Score: 5.4
CVSSv3 Vector: AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:L/A:N
CWE: 79

A reflected cross-site scripting vulnerability exists in TCExam <= 14.8.3. The paths provided in the f, d, and dir parameters in tce_filemanager.php were not properly validated and could cause reflected XSS via the unsanitized output of the path supplied. An attacker could craft a malicious link which, if triggered by an administrator, could result in the attacker hijacking the victim's session or performing actions on their behalf.



CVE-2021-20116 - Stored Cross Site Scripting Vulnerability in tce_select_mediafile.php

CVSSv3 Base Score: 5.4

CVSSv3 Vector: AV:N/AC:L/PR:N/UI:R/S:U/C:L/I:L/A:N

CWE: 79

A reflected cross-site scripting vulnerability exists in TCExam <= 14.8.4. The paths provided in the **f**, **d**, and **dir** parameters in tce_select_mediafile.php were not properly validated and could cause reflected XSS via the unsanitized output of the path supplied. An attacker could craft a malicious link which, if triggered by an administrator, could result in the attacker hijacking the victim's session or performing actions on their behalf.





Solution

All issues have been fixed as of TCExam 14.8.5

Additional References

https://github.com/tecnickcom/tcexam/commit/99ee2e02849c6285c5b9f18f31a1b5938d97191b https://github.com/tecnickcom/tcexam/commit/9dce209ebb74857a50df70b31338a7002588d400 https://github.com/tecnickcom/tcexam/commit/c5if9e8a8bf0759da1534978b15a56910c9ae942 https://github.com/tecnickcom/tcexam/commit/e96ea335d73bcf60968cd003332a039fed0b7515 https://github.com/tecnickcom/tcexam/commit/c481b2890fb0f3ed2d9ec387b7954dd40af9246e

Disclosure Timeline

15 July 2021 - Vulnerabilities Discovered

19 July 2021 - Tecnick notified

20 July 2021 - Fixes pushed

21 July 2021 - Advisory published

22 July 2021 - Tenable asks if fixes are being prepare for the reflected XSS vulnerabilities

3 Aug 2021 - Tecnick having trouble reproducing, asks for clarification

4 Aug 2021 - Tenable provides clarification

4 Aug 2021 - Tecnick partially fixes issues in TCExam 14.8.4

4 Aug 2021 - Tenable informs Tecnick that the fixes need to be implemented in an additional file

5 Aug 2021 - Tecnick releases fix in 14.8.5. All vulnerabilities addressed

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Tenable takes product security very seriously. If you believe you have found a vulnerability in one of our products, we ask that you please work with us to quickly resolve it in order to protect customers.

Tenable believes in responding quickly to such reports, maintaining communication with researchers, and providing a solution in short order.

 $For more \ details \ on \ submitting \ vulnerability \ information, \ please \ see \ our \ Vulnerability \ Reporting \ Guidelines \ page.$

If you have questions or corrections about this advisory, please email advisories@tenable.com

Risk Information

CVE ID: CVE-2021-20111 CVE-2021-20112 CVE-2021-20113 CVE-2021-20114

CVE-2021-20115 CVE-2021-20116

Tenable Advisory ID: TRA-2021-32

Credit: Derrie Sutton

CVSSv3 Base / Temporal Score: 9.1

 $\textbf{CVSSv3 Vector:} \ \, \text{AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:N}$

Affected Products: TCExam <= 14.8.4

Risk Factor: Critical

Advisory Timeline

21 July 2021 - Advisory published

05 August 2021 - Advisory updated with additional vulnerabilities

FEATURED PRODUCTS

Tenable One Exposure Management Platform

Otenable

Tenable.ad Active Directory

Tenable.ot Operational Technology

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Tenable.sc Security Center

Tenable Lumin

Nessus

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FEATURED SOLUTIONS

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