

The background is a solid blue color with a gradient. At the top, there are several wavy, horizontal lines in shades of blue and teal, creating a sense of movement or a horizon line. The text is centered in the middle of the image.

# ETHICAL HACKING INTERNSHIP

# Project



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The screenshot shows a web browser window displaying the Acunetix forums. The browser's address bar shows 'testasp.vulnweb.com'. The forum page has a green header with the Acunetix logo and a navigation bar with links like 'about', 'forums', 'search', 'login', 'register', 'SQL scanner', and 'SQL vuln help'. Below the header is a table with forum topics. The table has four columns: 'Forum', 'Threads', 'Posts', and 'Last Post'. The topics listed are 'Acunetix Web Vulnerability Scanner', 'Weather', and 'Miscellaneous'. A warning message is displayed at the bottom of the forum content, stating that the forum is deliberately vulnerable to SQL injections and other web-based attacks. The Windows taskbar is visible at the bottom of the screen, showing the time as 4:33 PM on 2/11/2022.

Forum	Threads	Posts	Last Post
<a href="#">Acunetix Web Vulnerability Scanner</a> Talk about Acunetix Web Vulnerability Scanner	90	90	2/11/2022 10:46:36 AM
<a href="#">Weather</a> What weather is in your town right now	12	12	2/11/2022 10:17:49 AM
<a href="#">Miscellaneous</a> Anything crossing your mind can be posted here	3	3	2/11/2022 9:40:44 AM

**Warning:** This forum is deliberately vulnerable to SQL injections, directory traversal, and other web-based attacks. It is built using ASP and it is here to help you test Acunetix. The entire content of the forum is erased daily. All the posts are real-life examples of how attackers are trying to break into insecure web applications. Please be careful and do not follow links that are posted by malicious parties.

Activate Windows  
Go to Settings to activate Windows.

# ETHICAL HACKING INTERNSHIP

Issue

Report

Send To +

Issue	<span>SQL Injection</span>
Issue URL	<a href="#">/ConverterResponse.aspx</a>
Website Name	ASP ( <a href="http://aspnet.testsparker.com/">http://aspnet.testsparker.com/</a> )
Severity	Critical
State	<span>Present</span>
First Seen	2020-06-03 03:40 PM
Last Seen	2020-06-03 03:40 PM
Assignee	<span>Tony Houghton</span>
Retestable	✓
Confirmed	✓

Update

State

☒ Accepted Risk

☒ False Positive

☐ Fixed (Unconfirmed)

Assignee

Tony Houghton

Note

Tags

Save

# ETHICAL HACKING INTERNSHIP

## Issues

Export to CSV Send To Edit

<input type="checkbox"/>	Title	Severity	Website Group	Website	URL	First Seen	Last Seen	Tags	Assignee	Status
<input type="checkbox"/>	SQL Injection	Critical	Default	ASP	<a href="http://aspnet.testsparker.com/Converter...">http://aspnet.testsparker.com/Converter...</a>	2020-06-03 03:40 PM	2020-06-03 03:40 PM	Urgent		Present
<input type="checkbox"/>	SQL Injection	Critical	Default	ASP	<a href="http://aspnet.testsparker.com/WS_search...">http://aspnet.testsparker.com/WS_search...</a>	2020-06-03 03:40 PM	2020-06-03 03:40 PM			Present
<input type="checkbox"/>	Blind SQL Injection	Critical	Default	ASP	<a href="http://aspnet.testsparker.com/blog/%27)...">http://aspnet.testsparker.com/blog/%27))...</a>	2020-06-03 03:40 PM	2020-06-03 03:40 PM	Urgent		Present
<input type="checkbox"/>	SQL Injection	Critical	Default	ASP	<a href="http://aspnet.testsparker.com/WS_search...">http://aspnet.testsparker.com/WS_search...</a>	2020-06-03 03:40 PM	2020-06-03 03:40 PM			Present



File

Home

View

Reporting

Help

Link

Vulnerability

Retest

Copy as cURL

Generate Exploit

Execute SQL Commands

Get Shell

Exploit LFI

Exploit Short Names

Ignore from this Scan

Configure Send To Actions...

Send To

ModSecurity WAF Rules

F5 BIG-IP ASM WAF Rules

Tools

Sitemap - Previous Settings

Browser View

HTTP Request / Response

Vulnerability

php.testsparker.com:80 (37)

php.testsparker.com:80 (40)

Blind SQL Injection

CONFIRMED

CRITICAL

URL

Parameter Name : id

Parameter Type : GET

Attack Pattern

Vulnerability Details

Impact

Classification

CVSS 3.0 SCORE

Progress

Scan Speed

Scan Progress

Activity

Knowledge Base (16)

Comments [16]

Cookies [1]

Crawling Performance [6]

CSS Files [2]

Email Addresses [1]

External Frames [1]

External Scripts [5]

File Extensions [4]

Interesting Headers [2]

MIME Types [4]

Out of Scope Links [46]

Proofs [1]

Scan Performance [80]

Site Profile [1]

Slowest Pages [10]

Web Pages With Inputs [8]

Session loaded successfully. Scan status: finished.

Scan loaded 100% | Default - | Default Security Checks - | Default Report Policy - | 8 | 10 | 7 | 3 | 12 | 11 | 5 | Proxy System

# ETHICAL HACKING INTERNSHIP

Technical Report

Issues Sitemap Knowledge Base

Expand Collapse Addressed Issues: Show

Scan Summary

Boolean Based SQL Injection [1]

GET /artist.php (id GET)

Present

> Code Evaluation (PHP) [1]

> Code Execution via SSTI (PHP Twig) [1]

> Command Injection [1]

> Cross-site Scripting [3]

> Database User Has Admin Privileges [1]

> Local File Inclusion [1]

> Out-of-date Version (MySQL) [1]

> Out-of-date Version (PHP) [1]

> Password Transmitted over HTTP [1]

> SVN Detected [1]

> Frame Injection [2]

> Open Policy Crossdomain.xml Detected [1]

> Open Silverlight Client Access Policy [1]

> SSL/TLS Not Implemented [1]

> Apache MultiViews Enabled [1]

> Autocomplete is Enabled [1]

> Cookie Not Marked as HttpOnly [1]

> Insecure Frame (External) [1]

> Internal Server Error [1]

> Missing X-Frame-Options Header [1]

> Programming Error Message [1]

> TRACE/TRACK Method Detected [1]

> Version Disclosure (Apache) [1]

> Version Disclosure (PHP) [1]

> [Possible] Cross-site Request Forgery [1]

> [Possible] Internal IP Address Disclosure [1]

> Apache Web Server Identified [1]

> Autocomplete Enabled (Password Field) [1]

> Database Detected (MySQL) [1]

> Directory Listing (Apache) [1]

> Email Address Disclosure [1]

> Forbidden Resource [1]

> OPTIONS Method Enabled [1]

> Robots.txt Detected [1]

> [Possible] Internal Path Disclosure (Windows) [1]

> [Possible] Login Page Identified [1]

> Content Security Policy (CSP) Not Implemented [1]

> Missing X-XSS-Protection Header [1]

> Referrer-Policy Not Implemented [1]

> SameSite Cookie Not Implemented [1]

> Subresource Integrity (SRI) Not Implemented [1]

Issue Request/Response

Boolean Based SQL Injection

CONFIRMED CRITICAL

Present Accepted Risk False Positive Fixed (Unconfirmed) Update Details Send To

URL

http://php.testsparker.com/artist.php?id=-1%20OR%2017-7%3d10

Parameter Name

id

Parameter Type

GET

Attack Pattern

-1 OR 17-7=10

Retestable

✓

Proof of Exploit

Identified Database Version

5.0.51b-community-nt-log

Identified Database User

root@localhost

Identified Database Name

sqlbench

Vulnerability Details


Netsparker Enterprise identified a Boolean-Based SQL Injection, which occurs when data input by a user is interpreted as a SQL command rather than as normal data by the backend database.


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Issue


Request / Response


## Cross-site Scripting



CONFIRMED 


 Present

 Accepted Risk

 False Positive

 Fixed (Unconfirmed)

 Send To ▾

URL	<code>http://asp.testsparker.com/About.aspx?hello=%22%3e%3ciMg%20src%3dN%20onerror%3dnetsparker(9)%3e</code>
Proof URL	<code>http://asp.testsparker.com/About.aspx?hello=%22%3e%3ciMg%20src%3dN%20onerror%3dalert(9)%3e</code>
Retestable	✓



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## Cross-site Scripting

CONFIRMED 

HIGH 

URL : [http://aspnet.testsparker.com/About.aspx?hello=<script>netsparker\(0x00042F\)</script>](http://aspnet.testsparker.com/About.aspx?hello=<script>netsparker(0x00042F)</script>)  
Parameter Name : hello  
Parameter Type : GET  
Attack Pattern : %3cscript%3enetsparker(0x00042F)%3c%2fscript%3e

### Vulnerability Details

Netsparker detected Cross-site Scripting, which allows an attacker to execute a dynamic script (*JavaScript*, *VBScript*) in the context of the application.

This allows several different attack opportunities, mostly hijacking the current session of the user or changing the look of the page by changing the HTML on the fly to steal the user's credentials. This happens because the input entered by a user has been interpreted as HTML/JavaScript/VBScript by the browser. Cross-site scripting targets the users of the application instead of the server. Although this is a limitation, since it allows attackers to hijack other users' sessions, an attacker might attack an administrator to gain full control over the application.

### Impact

There are many different attacks that can be leveraged through the use of cross-site scripting, including:

- Hijacking user's active session.
- Mounting phishing attacks.
- Intercepting data and performing man-in-the-middle attacks.

### Remedy

The issue occurs because the browser interprets the input as active HTML, JavaScript or VBScript. To avoid this, output should be encoded according to the output location and context. For example, if the output goes in to a JavaScript block within the HTML document, then output needs to be encoded accordingly. Encoding can get very complex, therefore it's strongly recommended to use an encoding library such as [OWASP ESAPI](#) and [Microsoft Anti-cross-site scripting](#).

Additionally, you should implement a strong Content Security Policy (CSP) as a defense-in-depth measure if an XSS vulnerability is mistakenly introduced. Due to the complexity of XSS-Prevention and the lack of secure standard behavior in programming languages and frameworks, XSS vulnerabilities are still common in web applications.

CSP will act as a safeguard that can prevent an attacker from successfully exploiting Cross-site Scripting vulnerabilities in your website and is advised in any kind of application. Please make sure to scan your application again with Content Security Policy checks enabled after implementing CSP, in order to avoid common mistakes that can impact the effectiveness of your policy. There are a few pitfalls that can render your CSP policy useless and we highly recommend reading the resources linked in the reference section before you start to implement one.

### CLASSIFICATION

PCI DSS 3.2	<a href="#">6.5.7</a>
OWASP 2013	<a href="#">A3</a>
OWASP 2017	<a href="#">A7</a>
CWE	<a href="#">79</a>
CAPEC	<a href="#">19</a>
WASC	<a href="#">8</a>
HIPAA	<a href="#">164.308(A)</a>
ISO27001	<a href="#">A.14.2.5</a>

### CVSS 3.0 SCORE

Base	7,4 (High)
Temporal	7,4 (High)
Environmental	7,4 (High)

### CVSS Vector String

CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:C/CH/I:N/A:N



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# END

.. Thank you ..