Ethical Hacking Internship Project 3

Title = SQL injection

Domain = http://www.vulnweb.com

Sub domain = http://testasp.vulnweb.com

By Santosh kumar

Steps to produce:

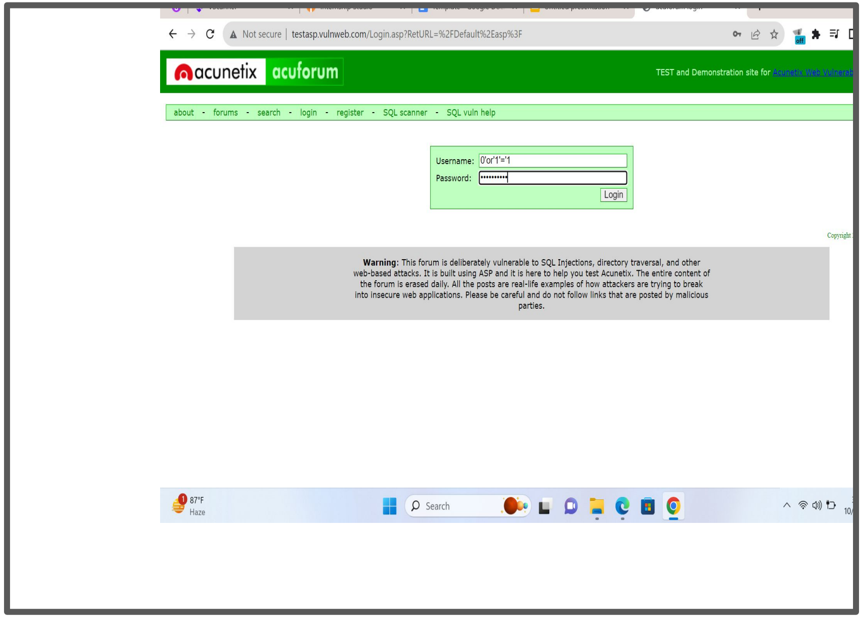
1. Attack

Visit the domain: http://testasp.vulnweb.com

Go to login option

Insert the SQL Injection : 0’or’1’=’1 , in both the username and password

We got successfully bypass the login



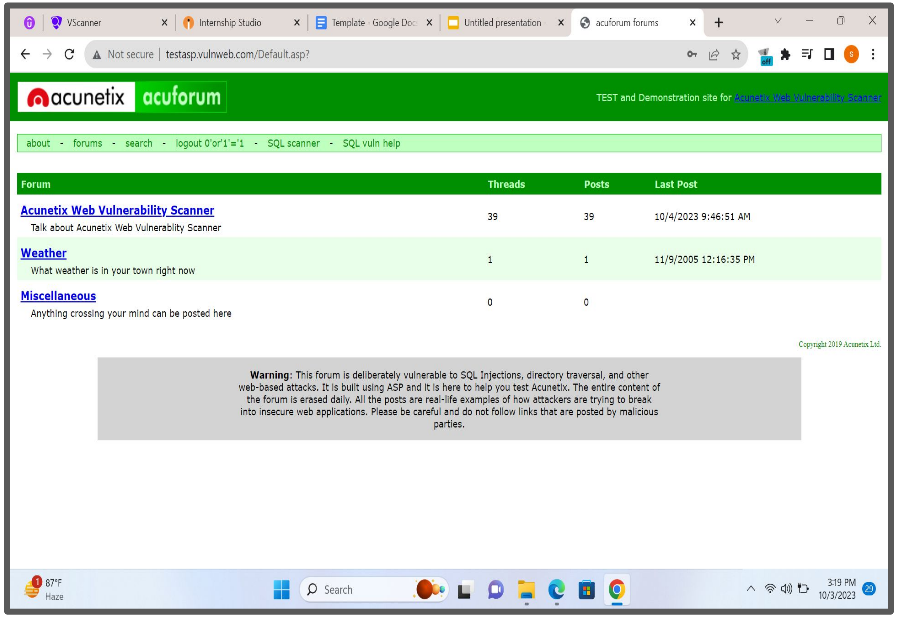
Not secure | testasp.vulnweb.com/Login.asp?RetURL=%2FDefault%2Easp%3F

acunetix acuforum
TEST and Demonstration site for Acunetix Web Vulnerab
about - forums - search - login - register - SQL scanner - SQL vuln help
Login
Copyright
87°F
Haze
Search

Username: 0'or'1'='1

Password: ••••••••••

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.



Not secure | testasp.vulnweb.com/Default.asp?

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Internship Studio
Template - Google Doc
Untitled presentation
acuforum forums
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Forum	Threads	Posts	Last Post
Acunetix Web Vulnerability Scanner Talk about Acunetix Web Vulnerablity Scanner	39	39	10/4/2023 9:46:51 AM
Weather What weather is in your town right now	1	1	11/9/2005 12:16:35 PM
Miscellaneous Anything crossing your mind can be posted here	0	0	

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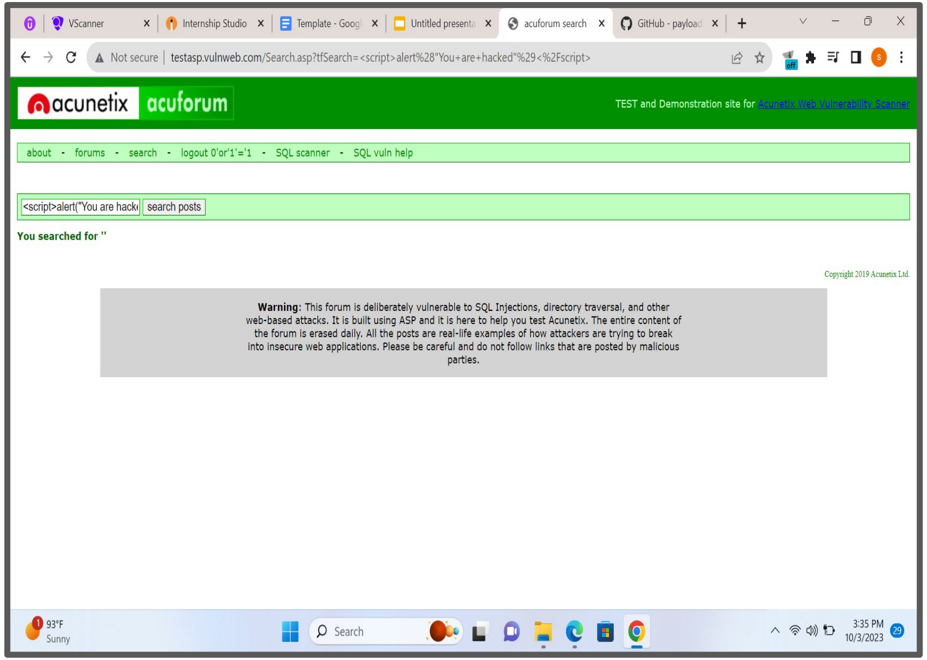
2. Reflected XSS

Visit the domain: http://testasp.vulnweb.com

Go to search option

Type payload in the search <script>alert("You are hacked")</script>

Attacked Successfully



Not secure | testasp.vulnweb.com/Search.asp?tfSearch=<script>alert%28"You+are+hacked"%29<%2Fscript>

TEST and Demonstration site for Acunetix Web Vulnerability Scanner

about - forums - search - logout 0'or'1'='1 - SQL scanner - SQL vuln help

<script>alert("You are hack search posts

You searched for ''

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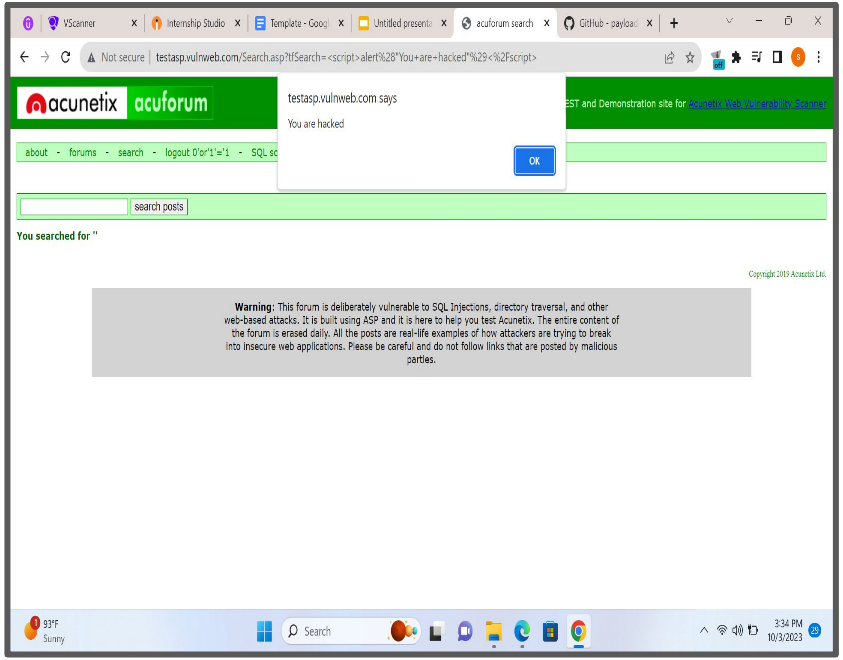

Not secure | testasp.vulnweb.com/Search.asp?tfSearch=<script>alert%28"You+are+hacked"%29<%2Fscript>

testasp.vulnweb.com says

You are hacked

OK

EST and Demonstration site for Acunetix Web Vulnerability Scanner

about - forums - search - logout 0'or'1'='1 - SQL sc

search posts

You searched for ''

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SQL and XSS attack :-

[redacted]

Impacts of Simple SQL injection and XSS Attack :

- **Confidentiality**: Since SQL databases generally hold sensitive data, loss of confidentiality is a frequent problem with SQL Injection vulnerabilities.
- **Authentication**: If poor SQL commands are used to check user names and passwords, it may be possible to connect to a system as another user with no previous knowledge of the password.
- **Authorisation**: If authorisation information is held in a SQL database, it may be possible to change this information through the successful exploitation of a SQL Injection vulnerability.
- **Integrity**: Just as it may be possible to read sensitive information, it is also possible to make changes or even delete this information with a SQL Injection attack.

How we can protect against such attack

- Validate user input for expected data types, including input fields like drop-down menus or radio buttons, not just fields that allow users to type.
- Ensure all web application software components including libraries, plug-ins, frameworks, web server software, and database server software are kept up to date with the latest security patches