TECHNICAL LAB REPORT

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Group Code	ONL3_ISS6_S2
Track	**Information Security Analyst**

1. Assessment Scope

Target IP / URL:
203.0.113.42____

Tools Used: [ ] Nmap   [ ] Nessus   [ ] Wireshark   [YES] Other

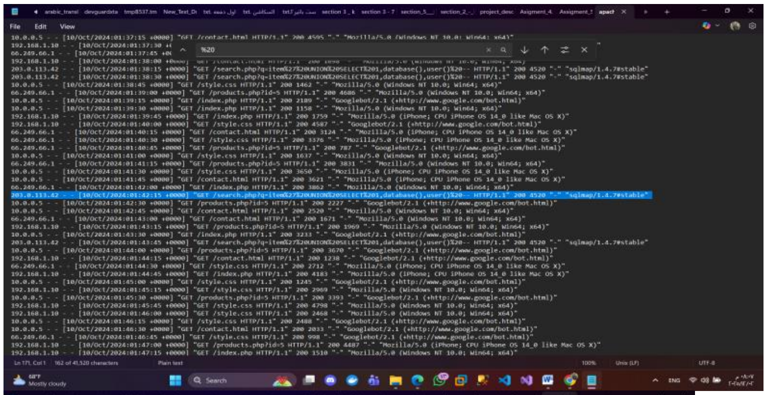
2. Findings Summary

Vulnerability Name	Severity	Status
SQL Injection Attempt	High	Confirmed
Malicious Automation (SQLMAP)	High	Confirmed
URL Encoding Injection (%27)	Medium	Confirmed

3. Technical Evidence

Paste screenshot verification below:

[PASTE SCREENSHOT HERE]



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10.0.0.5 - - [10/Oct/2024:01:37:15 +0000] "GET /contact.html HTTP/1.1" 200 4595 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64)"
192.168.1.10 - - [10/Oct/2024:01:37:30 +(                                                                    "
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10.0.0.5 - - [10/Oct/2024:01:42:30 +0000] "GET /products.php?id=5 HTTP/1.1" 200 2227 "-" "Googlebot/2.1 (+http://www.google.com/bot.html)"
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10.0.0.5 - - [10/Oct/2024:01:43:30 +0000] "GET /index.php HTTP/1.1" 200 3233 "-" "Googlebot/2.1 (+http://www.google.com/bot.html)"
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66.249.66.1 - - [10/Oct/2024:01:46:45 +0000] "GET /style.css HTTP/1.1" 200 998 "-" "Googlebot/2.1 (+http://www.google.com/bot.html)"
192.168.1.10 - - [10/Oct/2024:01:47:00 +0000] "GET /products.php?id=5 HTTP/1.1" 200 4487 "-" "Mozilla/5.0 (iPhone; CPU iPhone OS 14_0 like Mac OS X)"
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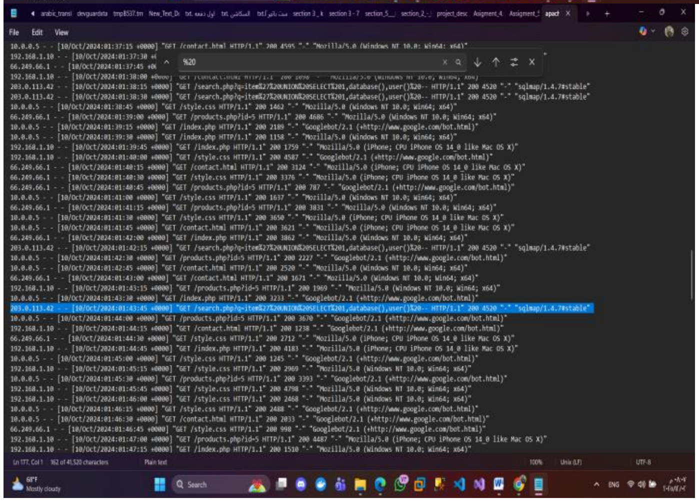

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```

4. Recommendations

1. Implement Input Validation & Sanitization

Apply strict filtering to user input on the search page to prevent the entry of symbols such as ', UNION, and SELECT.
2. Use Prepared Statements / Parameterized Queries

Modify the code to use secure queries that prevent the execution of user-generated SQL commands.
3. Enable Web Application Firewall (WAF)

Enable WAF, such as ModSecurity, to automatically prevent SQL Injection attacks and block suspicious bots.
4. Block Attacker IP (203.0.113.42)

Add the attacker's IP to the server-level or firewall block list to prevent re-attacks.
5.Implement Rate Limiting on Search Endpoint

Limit the number of requests allowed per IP per minute to prevent automated attacks (bots/SQLMAPs).
6.Disable Detailed Error Messages

Disable detailed error messages that could help an attacker understand the database structure
7. Regular Log Monitoring

Monitor server logs daily for early detection of abnormal activity.

Financial

The total cost for performing the log analysis, confirming the attack vector, identifying the malicious IP, documenting all findings, and delivering the final technical report is

22 USD (one-time analysis fee).

This fee covers all work related to investigation, reporting, and recommendations.