



# Private Web Application Bug Bounty Program Assessment Report of Findings

# **Trilocor Robotics**

Month Day, Year

Version 1.0

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# **Engagement Contacts**

# **Trilocor Contacts**

Primary Contact	Title	Primary Contact Email
Yelon Husk	Chief Executive Officer	<u>yelon@trilocor.local</u>
Secondary Contact	Title	Secondary Contact Email
Zeyad AlMadani	Chief Technical Officer	zeyad@trilocor.local

## **Assessor Contact**

Assessor Name	Title	Assessor Contact Email
<candidate name=""></candidate>	Security Consultant	<a href="#">Candidate Email&gt;</a>



## **Executive Summary**

Trilocor Robotics Ltd. ("Trilocor" herein) invited <assessor NAME> to a private bug bounty program to perform a targeted Web Application Penetration Test of Trilocor's externally facing web applications to identify high-risk security weaknesses, determine the impact to Trilocor, document all findings in a clear and repeatable manner, and provide remediation recommendations. The following types of findings were in-scope for this private bug bounty program:

- Sensitive or personally identifiable information disclosure
- Cross-Site Scripting (XSS)
- Server-side or remote code execution (RCE)
- Arbitrary file upload
- Authentication or authorization flaws, such as insecure direct object references (IDOR), and authentication bypasses
- All forms of injection vulnerabilities
- Directory traversal
- Local file read
- Significant security misconfigurations and business logic flaws
- Exposed credentials that could be leveraged to gain further access

The following types of activities were considered out-of-scope for this bug bounty program:

- Scanning and assessing any other IP in the Entry Point's network
- Physical attacks against Trilocor properties
- Unverified scanner output
- Man-in-the-Middle attacks
- Any vulnerabilities identified through DDoS or spam attacks
- Self-XSS
- Login/logout CSRF
- Issues with SSL certificates, open ports, TLS versions, or missing HTTP response headers
- Vulnerabilities in third party libraries unless they can be leveraged to significantly impact the target
- Any theoretical attacks or attacks that require significant user interaction or low risk

<assession NAME> performed testing under a "black box" approach from <a href="START DATE">START DATE</a> to <a href="END DATE">END DATE</a> without credentials or any advance knowledge of Trilocor's web applications with the goal of identifying unknown weaknesses. Testing was performed from a non-evasive standpoint with the goal of uncovering as many misconfigurations and vulnerabilities as possible. Testing was performed remotely. Each weakness identified was documented and manually investigated to determine exploitation possibilities and escalation potential. <a href="ASSESSOR NAME">ASSESSOR NAME</a> sought to demonstrate the full impact of every vulnerability, up to and including internal network access.



## Scope

The scope of this assessment was as follows \*.trilocor.local and any and all open web server ports discovered on the target IP address provided at the start of the assessment

# **In-Scope Assets**

	Host/URL/IP Address	Description
www.trilocor.local		Main Trilocor website/unauthenticated
<exam address="" ip=""></exam>		PR website/unauthenticated
<exam address="" ip=""></exam>		Jobs Portal/unauthenticated
<exam address="" ip=""></exam>		HR website/unauthenticated
<exam address="" ip=""></exam>		Trilocor online store/unauthenticated

#### **Assessment Overview and Recommendations**

<Summary of findings and recommendations>

During the course of testing <a href="#"><ASSESSOR NAME</a> identified...



# **Web Application Security Assessment Summary**

<assessor NAME> began all testing activities from the perspective of an unauthenticated user on the internet. Trilocor provided the tester with a single URL and IP address but did not provide additional information such as operating system or configuration information.

#### **Summary of Findings**

During the course of testing <a href="ASSESSOR NAME">ASSESSOR NAME</a> uncovered a total of <a href="mailto:rnumber">number</a> of findings that pose a material risk to Trilocor's information systems. The below table provides a summary of the findings by severity level.

#### **Finding Severity**

High	Medium	Low	Total
0	<mark>0</mark>	0	0

Below is a high-level overview of each finding identified during the course of testing. These findings are covered in depth in the <u>Technical Findings Details</u> section of this report.

Finding #	Severity Level	Finding Name
1.	<mark>High</mark>	Command Injection
2.	Medium	Username Enumeration
3.	Low	Cookie Missing Secure Flag



# **Technical Findings Details**

1. SQL Injection - High

CWE	
CVSS 3.1 Score	
Description (Incl. Root Cause)	The application does not properly sanitize input data, allowing an unauthenticated attacker to inject SQL code into database queries. <b>EXAMPLE FINDING</b>
Security Impact	A successful SQL injection attack can result in access to sensitive data from the database, modifications to database data (Insert/Update/Delete), execution of administration operations on the database (such as shutting down the DBMS), recovering the contents of a given file present on the DBMS file system and in some cases issuing commands on the underlying operating system.
Affected Host(s)	mytestsite.com     o Id parameter
Remediation	Where possible, use parameterized queries to ensure that database interactions cannot be contaminated. Also, escape all user supplied input/utilize a whitelist of approved characters to validate all input that is passed to the database.
External References	https://www.owasp.org/index.php/SQL_Injection_Prevention_Cheat_Sheet

#### **Finding Evidence:**

Note to candidate: Finding evidence should include detailed reproduction steps, showing how you discovered the vulnerability, exploitation steps, and a screenshot showing the flag obtained using the vulnerability (if it resulted in discovery of a flag). It should be possible to easily recreate each finding from the evidence & steps you provide. If you are having trouble with reporting or would like to see a sample of the type of report we expect for a passing grade, check out the Documentation and Reporting module on HTB Academy.



<Insert screenshots as appropriate>



# 2. Username Enumeration - Medium

CWE	<fill in=""></fill>
CVSS 3.1 Score	<fill in=""></fill>
Description (Incl. Root Cause)	<fill in=""></fill>
Security Impact	<fill in=""></fill>
Affected Host(s)	• <fill in=""></fill>
Remediation	<fill in=""></fill>
External References	<fill in=""></fill>

## **Finding Evidence:**

<Add command output as appropriate>

<Insert screenshots as appropriate>



# 3. Cookie Missing Secure Flag - Low

CWE	<fill in=""></fill>
CVSS 3.1 Score	<fill in=""></fill>
Description (Incl. Root Cause)	<fill in=""></fill>
Security Impact	<fill in=""></fill>
Affected Host(s)	• <fill in=""></fill>
Remediation	<fill in=""></fill>
External References	<fill in=""></fill>

## **Finding Evidence:**

<Add command output as appropriate>

<Insert screenshots as appropriate>



# **Appendices**

# Appendix A – Flags Discovered

Flag #	Application	Flag Value	Flag Location	Method Used
1.	<mark>Main</mark>	HTB{ <random value="">}</random>	Web root	Command Injection (example)
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				