



1 Executive Security Assessment Report

1.1 Introduction

The security assessment was conducted on the domain **imap.thewatergarden-la.com**. The analysis began on **April 8th** at **12:45** and concluded in a duration of **10 minutes and 11 seconds**. The assessment was categorized as a **Basic** type scan. The primary objective was to evaluate the security posture of the domain using OWASP and OSCP methodologies, focusing on identifying High and Medium-risk vulnerabilities.

1.2 Summary of Findings

The assessment identified a total of **19 issues**, with **0 High-risk**, **4 Medium-risk**, **2 Low-risk**, and **13 informational** findings. Key Medium-risk issues include the absence of a Web Application Firewall (WAF), a Denial of Service (DoS) vulnerability, insecure open ports, and exposure of a sensitive subdomain.

1.3 Issues Table

Title	Risk
Absence of WAF	Medium
Nmap Port Scan Results Analysis	Medium
Subdomain Naming Security Assessment	Medium
Denial of Service (DoS) Vulnerability	Medium
SSL/TLS Protocols Security Assessment	Low
Services Vulnerable to Brute Force	Low

1.3.1 Absence of WAF

Description:

The assessment revealed that the host lacks a Web Application Firewall (WAF), resulting in a **100% vulnerability rate**. This absence significantly increases the risk of injection attacks and unauthorized access, potentially leading to data breaches and system compromise.

Affected Asset:

- Host: **imap.thewatergarden-la.com**

Recommendations:

Implement a robust WAF solution to filter and monitor HTTP traffic between the web application and the Internet. This will help mitigate injection attacks and protect against unauthorized access attempts.

1.3.2 Nmap Port Scan Results Analysis

Description:

The Nmap scan identified port **110/tcp** open for the POP3 service, which is vulnerable to clear text authentication risks. This poses a threat of email interception and unauthorized access.

Affected Asset:

- IP: **216.69.141.90** - Port: **110/tcp** - Service: **pop3**

Recommendations:

Secure the POP3 service by implementing encrypted communication protocols such as TLS. Consider disabling unnecessary services or ports to reduce exposure.



1.3.3 Subdomain Naming Security Assessment

Description:

A sensitive subdomain, **imap.thewatergarden-la.com**, was identified, which could expose critical systems and sensitive data. This subdomain is categorized under “Sensitive Services” with a High risk level.

Affected Asset:

- Subdomain: **imap.thewatergarden-la.com**

Recommendations:

Review and secure sensitive subdomains by implementing strict access controls and monitoring for unauthorized access attempts. Ensure that development and staging environments are not exposed to the public.

1.3.4 Denial of Service (DoS) Vulnerability Assessment

Description:

The assessment detected indications of a Medium severity DoS vulnerability with a timeout rate of **0.31%** on the HTTP service. This could lead to potential service disruptions.

Affected Asset:

- Endpoint: **imap.thewatergarden-la.com:80**

Recommendations:

Enhance server resilience against DoS attacks by implementing request rate limiting and monitoring server performance during peak times. Optimize server configurations to handle high traffic loads efficiently.

1.4 General Recommendations

To improve the overall security posture, it is recommended to implement comprehensive security measures such as deploying a Web Application Firewall (WAF), securing open ports with encryption, monitoring sensitive subdomains, and enhancing DoS protection mechanisms. Regular security assessments should be conducted to identify and mitigate emerging threats promptly.