

IAGON

Web Application Security Assessment Report

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Presented To:

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Submitted By:

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Iagon

Web Application Security Assessment Report

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1. Executive Overview

Iagon contracted with Secureworks to perform the following security assessment task:

- Web Application Assessment

The security engagement occurred during the period from December 16, 2024 to December 20, 2024. The objective of this engagement was to identify vulnerabilities in Iagon's application security that both internal and external adversaries could exploit.

Secureworks assessment activities included testing of the Iagon app during the course of the engagement. All aspects of the target were considered in scope.

NOTE: Staking and node storage features were not tested as they were not implemented during the test. These should be implemented prior to future tests.

[REDACTED DETAILS]

The following High-Severity issue contributed to the information disclosure and data modification issue:

[REDACTED DETAILS]

Secureworks recommends the following high-level actions:

[REDACTED DETAILS]

It is important to note that this report is not an objective measure but is solely based upon observation and experience; it does not cover areas deemed out of scope or issues beyond the capabilities of this methodology.

2. Technical Overview

One high-severity issue was discovered during the assessment.

[REDACTED DETAILS]

Four low-severity issues were discovered during the assessment.

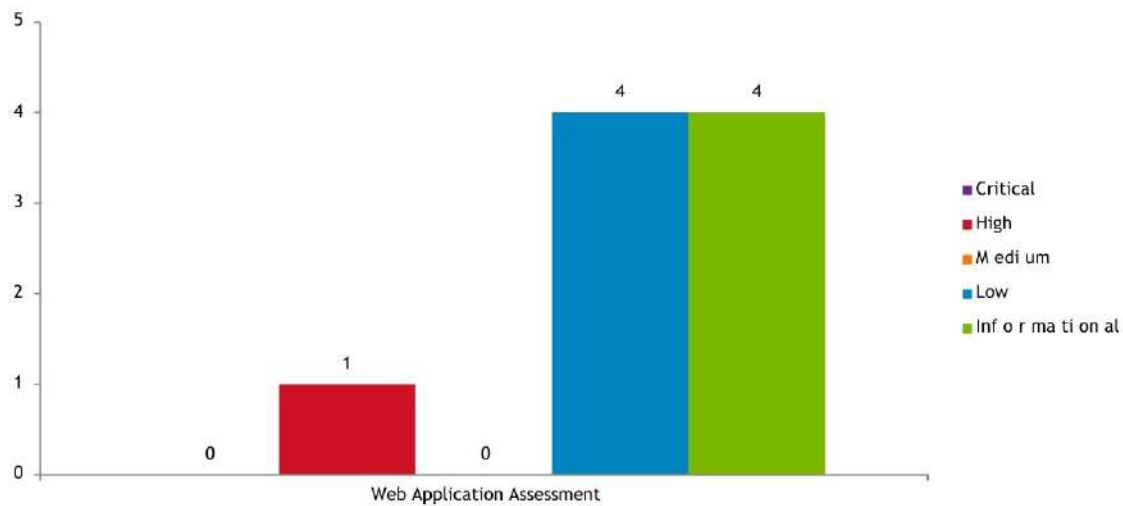
[REDACTED DETAILS]

Four informational-severity issues were discovered during the assessment.

[REDACTED DETAILS]

2.1. Summary of Findings

A high-level overview of the results is presented below. Detailed results can be found in subsequent sections of this document.



- * **Web Application Assessment:** Secureworks identified zero (0) critical-severity findings, one (1) high-severity finding, zero (0) medium-severity findings, four (4) low-severity findings, and four (4) informational-severity findings.

2.2. Summary of Recommendations

Secureworks provides the following recommendations to help maintain and improve upon Iagon's current security level:

[REDACTED DETAILS]

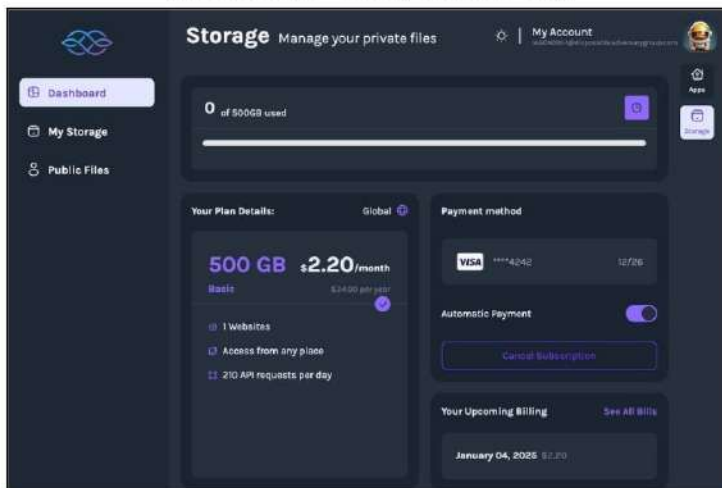
3. Web Application Assessment

During the period from December 16, 2024, to December 20, 2024, Secureworks performed a web application assessment against the following public application(s):

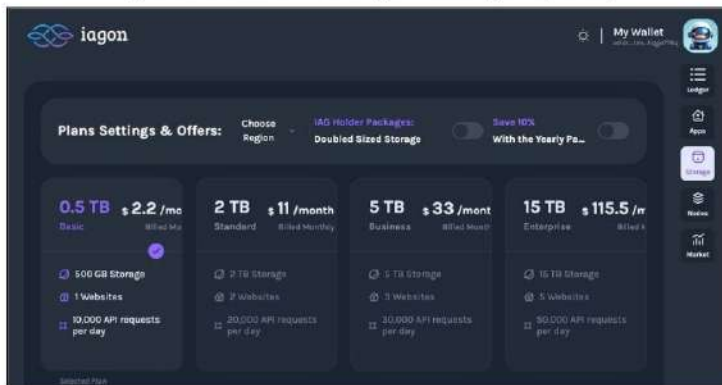
Targets

[https://\[REDACTED\]](https://[REDACTED])

[email account – storage requests only]



[wallet account – hosting and storage requests]



3.1. Application Autopsy

The target application is written using React, Next.js, and the Express framework. It runs on an nginx web server. Blockchain technology is used to verify hosting transactions. Wallet management is handled separately via browser plugins--Eternl was used during this examination. The application has the following characteristics:

- File upload and download.
- Decentralized storage hosting.
- Payments.
- Node, ledger search.
- App hosting.
- Account management.

The test was conducted against a staging environment with limited data. The following accounts and respective roles were provided for authenticated testing:

[REDACTED DETAILS]

3.2. Methodology

The assessment consisted of several phases, each detailed below along with the methodology, associated findings, and subsequent recommendations:

3.2.1. Scope Validation

The first phase of testing is focused on identifying in-scope hosts through various methods of reconnaissance, such as spiders, robots, and crawlers; search engine discovery/reconnaissance; identification of application entry points; web application fingerprint; application discovery; and analysis of error codes.

3.2.2. Automated Testing

Automated web application scanners are limited in their scope, but are effective at identifying the most common issues, including those in the OWASP Top 10. The scanner can be configured to execute with or without a valid account on the web application; this has a major effect on the type and depth of testing it can provide.

3.2.3. Manual Verification

One issue with automated scanning is the high risk of false positives. The manual verification process reduces, as much as possible, the occurrence of 'false positives,' thereby improving the accuracy of testing results.

3.2.3.1. Multi-Stage Process

Automated scanners are not suitable for testing multi-stage processes, such as account registration or payment processes. This phase focuses the tester on these multi-stage processes and aims to identify persistent Cross-Site Scripting (XSS) flaws, downstream database injection flaws, etc.

3.2.3.2. *Privilege escalation*

To be comprehensive in testing, the capabilities of an authenticated user must be considered. As such, valid credentials are used to test what an authenticated user may accomplish. This is a manual exercise to attempt to verify an authenticated user's access is appropriate to the role, and that the ability to elevate privileges, view, or modify other user or account data is limited.

3.2.3.3. *Business logic flaws*

Business logic is a process or workflow built into a web application. Flaws in this logic can circumvent certain controls that would affect your business but would not result in a technical penetration of your environment—for example, modifying the price of an item from \$100 to \$1, or skipping the payment process and going straight to shipping. Testing identifies critical business logic flaws, as appropriate for the invasiveness and time allotted for testing.

3.3. Rules of Engagement

Systems were assessed and exploited to the extent described in the methodology. Any deviations from the stated methodology are noted in this section.

3.4. Key Findings and Recommendations

The following set of tables lists key findings identified during the assessment, describes their severity, provides a remediation plan, and lists additional information where applicable.

3.4.1. *Critical-Severity Findings*

During the period of the assessment, no critical-severity vulnerabilities were identified.

Appendix A: Key Terms

A.1 OWASP Top Ten

Secureworks captures the characteristics of web application vulnerabilities, as defined by the OWASP (Open Worldwide Application Security Project) Top-Ten categories (<http://www.owasp.org>). OWASP Top Ten is a list of the top-ten, most critical web application security vulnerabilities. Top-ten vulnerabilities affecting your web application are identified and assigned, allowing you to prioritize your remediation efforts. OWASP Top Ten will often reference CVSSv2 vulnerability information, which provides consistent severity reporting. OWASP Top Ten categories are prefaced with an A.

A.2 Definitions

The following terms and ratings are used to describe each vulnerability that was found:

Systems/URLs Affected: Describes by name, URL, or Internet Protocol (IP) Address the systems which are affected by the named vulnerability.

Description: A detailed explanation of the vulnerability and possible consequences of its successful exploitation.

Remediation: Describes possible or suggested steps to take to resolve the vulnerability.

Reference: If additional outside information is available, such as that found on websites, it will be listed here.

Notes: Where applicable, additional detail or clarifying information is included.

A.3 Severity Ratings

The following table defines Secureworks Severity Ratings as used throughout this report.