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**Product: Test**

**Report: Test Change**

PEN-DOC-TEST1

Shub, [https://www.shub\\_pentest.com](https://www.shub_pentest.com)

14-01-2024

## **Project Overview**

### **Description**

Test

## Executive Summary

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## Summary of Findings Identified

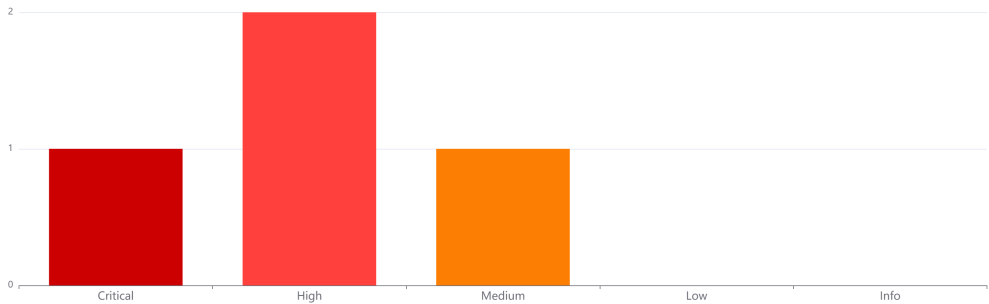
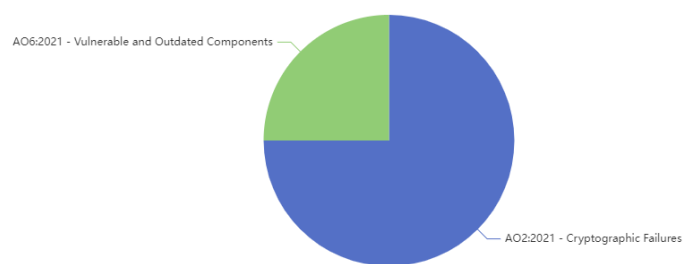


Figure 1: Executive Summary



**Figure 2:** Breakdown by OWASP Categories

**# 1 High** TEST FINDING CHATGPT

**# 2 High** Crypto Failure GG

**# 3 Medium** Bloop Change

**# 4 Critical** LATEST FININDG

## Scope

### In Scope

Test

### Out of Scope

Test

## Methodology

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## Recommendations

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## Findings and Risk Analysis

### TEST FINDING CHATGPT



**Severity:** High

**CVSS Score:** 11.0

**CVSS Vector:** rewtgergerg

#### OWASP

##### 2 - Cryptographic Failures

##### Description

The application in question was observed using the MD5 cryptographic algorithm for hashing passwords. This algorithm is known to be deprecated and weak, making it an unsuitable choice for modern security requirements.

##### Location

<https://example.com/user/settings>

##### Impact

The utilization of a deprecated and weak cryptographic algorithm like MD5 makes the application highly susceptible to cyber attacks. A potential attacker can leverage well-known vulnerabilities within the MD5 algorithm to compromise user passwords, leading to unauthorized access to sensitive information.

##### Proof of Concept

TBC

##### Recommendation

- It is recommended to immediately upgrade the password hashing system to a more secure cryptographic algorithm.
- Alternatives like SHA-256 or bcrypt should be considered for password hashing.
- A thorough security review of the entire application needs should be carried out to identify and correct any other outdated security practices.

##### References

- [https://owasp.org/www-project-top-ten/2021/A02\\_2021-Cryptographic\\_Failures](https://owasp.org/www-project-top-ten/2021/A02_2021-Cryptographic_Failures)

- <https://en.wikipedia.org/wiki/MD5>
- <https://csrc.nist.gov/Projects/Hash-Functions/NIST-Policy-on-Hash-Functions>



## Crypto Failure GG



**Severity:** High

**CVSS Score:** 7.5

**CVSS Vector:** rewtgergerg

### OWASP

#### 2 - Cryptographic Failures

##### Description

Cryptographic failures refer to the vulnerabilities and weaknesses in the implementation of cryptographic algorithms and protocols. These failures can lead to security breaches by attackers who can exploit the vulnerabilities to gain unauthorized access, tamper with sensitive data, or perform other malicious activities.

##### Location

<https://example.com/user/settings>

##### Impact

The impact of cryptographic failures can be significant and widespread. It can result in the compromise of confidential information, such as passwords, credit card details, and other sensitive data. Attackers can use this information for identity theft, financial fraud, or other forms of malicious activities. Furthermore, cryptographic failures can also lead to the loss of integrity and authenticity of data, as well as the potential for unauthorized modifications or tampering.

##### Proof of Concept

TBC

##### Recommendation

- Ensure that cryptographic algorithms and protocols are implemented correctly and securely.
- Regularly update and patch cryptographic libraries and components to address any known vulnerabilities.
- Follow secure coding practices and guidelines while developing and implementing cryptographic functions.
- Perform thorough security testing, including cryptographic testing, to identify and fix any vulnerabilities or weaknesses.
- Stay updated with the latest cryptographic standards and best practices.

- Regularly monitor and analyze cryptographic logs and alerts to detect any potential attacks or breaches.
- Implement a strong key management system to protect cryptographic keys from unauthorized access.
- Employ proper encryption mechanisms, such as using strong algorithms and key sizes.
- Ensure that proper key exchange and authentication mechanisms are in place to prevent man-in-the-middle attacks.
- Consider using reputable and audited cryptographic libraries and components.

**References**

- [https://owasp.org/www-project-top-ten/2021/A02\\_2021-Cryptographic\\_Failures](https://owasp.org/www-project-top-ten/2021/A02_2021-Cryptographic_Failures)

## Bloop Change



**Severity:** Medium

**CVSS Score:** 5.4

**CVSS Vector:** rewtgergerg

### CWE

108 - Struts: Unvalidated Action Form

### OWASP

6 - Vulnerable and Outdated Components

### Description

Yada ada yada get heked yada yada yada

### Location

Test

### Impact

Test

### Proof of Concept

Test

### Recommendation

Test

### References

Test

**LATEST FININDG****Severity:** Critical**CVSS Score:** 1.0**CVSS Vector:** rewtgergerg**OWASP****2 - Cryptographic Failures****Description**

dsfsdfsdf

**Location**

sdfsdfsdf

**Impact**

*sdfsdf*

**Proof of Concept**

**sdfsdfsdf**

**Recommendation**

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**References**

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