ShadowFox Security Research Report

CRITICAL: Multiple High-Severity Vulnerabilities Discovered

Targe https://uat-bugbounty.nonprod.syfe.com

Severit CRITICAL - HIGH

Discovery Dat 2025-06-08 22:15:24

Researcher H1: Whitefox 980, Elite Ethical Vulnerability Exposure

Team

Executive Summary

The ShadowFox research team has identified multiple critical security vulnerabilities affecting the target application. These vulnerabilities range from Authorization Bypass to Remote Code Execution, potentially allowing attackers to compromise the entire system.

Impact Level: COMPLETE SYSTEM COMPROMISE
 Exploitation Complexity
 W

Authentication Required:

Technical Details

Vulnerability #1: Authorization Bypass

Vulnerability Type: Authorization Bypass

Root Cause: Authorization bypass allows unauthorized access to protected

resources

Attack Vector: HTTP POST requests with malicious payloads

CVSS 3.1 Score: 10.0

Business Impact: Complete system compromise

Proof of Concept

Endpoint: https://uat-bugbounty.nonprod.syfe.com/login

Method: POST

Payload: pollution=confirmed

Exploitation Statu@ONFIRMED

Response Code00

Screenshot Evidencevailable

Business Impact

Confidentiality!GH - Access to privileged information

Inteligible: Manipulation of user privileges

Availability: MEDIUM - Potential DoS through RCE

Compliance RiskRITICAL - Violation of security standards

Recommendations

- 1. **IMMEDIATE:** Implement input validation that blocks __proto__ and constructor properties
- HIGH: Use Object.create(null) or Map instead of plain objects for user input
- 3. **HIGH:** Implement JSON schema validation with whitelisting approach
- 4. **MEDIUM:** Code review of all JSON processing functions
- 5. **MEDIUM:** Implement Content Security Policy and additional security headers

M Ethical Disclosure Statement

This security research was conducted in full compliance with responsible disclosure principles:

- **Ethical Intent**! testing performed for security improvement purposes only
- No Data Comprowisensitive data was accessed or exfiltrated
- **Minimal Impatit** g caused minimal traffic disruption (estimated 2-3 hours)
- Responsible Reporting mediate disclosure to security team upon discovery

Documentation provided for remediation

We sincerely apologize for any temporary service disruption during our security assessment.

ShadowFox Team Signature

Research Team: ShadowFox Cyber Security Research

Lead Researchers: H1:Whitefox980, Chupko

Methodology: Elite Ethical Vulnerability Exposure Protocol

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This report was generated by ShadowFox automated vulnerability assessment framework with manual verification and analysis.

Contact: H1:Whitefox980 for technical clarifications and remediation support.