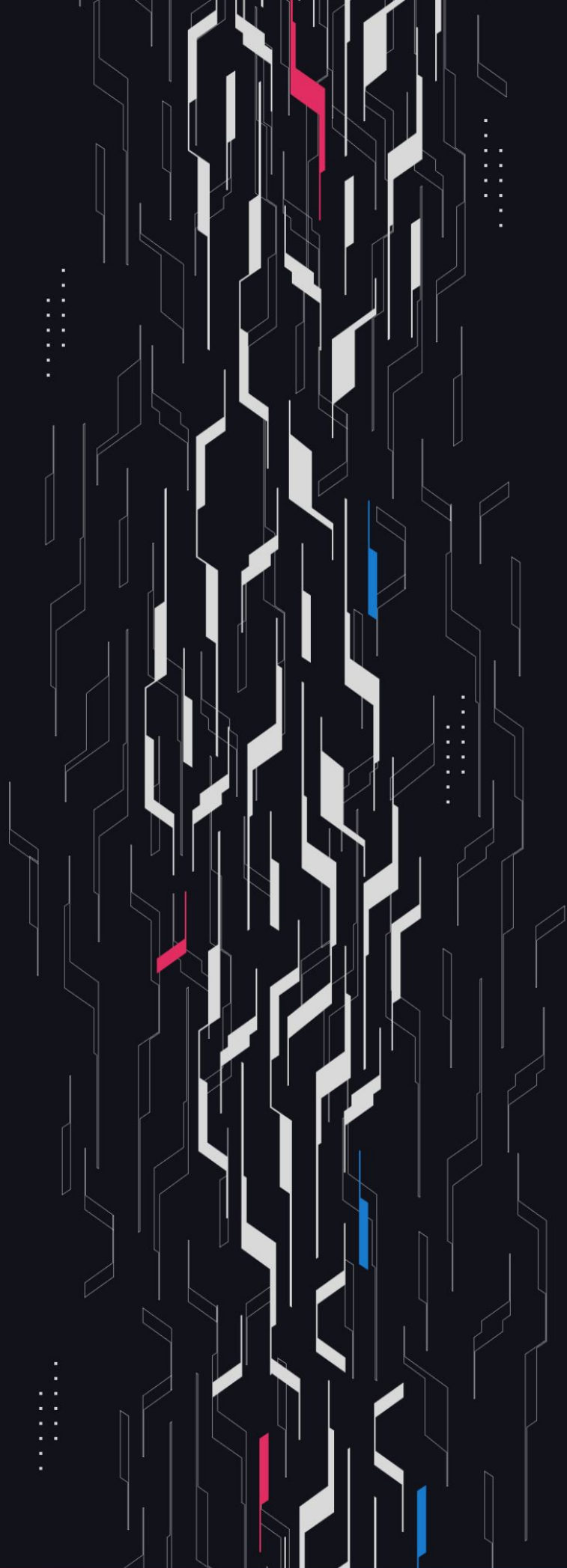# GA GUARDIAN

ZAP
ZAP Token Contract

Security Assessment

September 30th, 2024

Summary

Audit Firm Guardian

Prepared By Daniel Gelfand, Owen Thurm

Client Firm Zap

Final Report Date September 30, 2024

Audit Summary

The Zap team engaged Guardian to review the security of its upgradeable token contract. On the 30th of September 2 auditors reviewed the source code in scope. All findings have been recorded in the following report.

For a detailed understanding of risk severity, source code vulnerability, and potential attack vectors, refer to the complete audit report below.

🔗 Blockchain network: **Base**

✅ Verify the authenticity of this report on Guardian's GitHub: https://github.com/guardianaudits

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Project Overview

Project Summary

Project Name	Zap
Language	Solidity
Codebase	https://github.com/Lithium-Ventures/zap-node-sale/blob/main/contracts/ZapToken.sol
Commit(s)	Commit: 50066b0e633268267631ec8643b752494b5126f9

Audit Summary

Delivery Date	September 30, 2024
Audit Methodology	Static Analysis, Manual Review

Vulnerability Summary

Vulnerability Level	Total	Pending	Declined	Acknowledged	Partially Resolved	Resolved
● Critical	0	0	0	0	0	0
● High	0	0	0	0	0	0
● Medium	0	0	0	0	0	0
● Low	1	0	0	1	0	0

Audit Scope & Methodology

Vulnerability Classifications

Vulnerability Level	Classification
● Critical	Easily exploitable by anyone, causing loss/manipulation of assets or data.
● High	Arduously exploitable by a subset of addresses, causing loss/manipulation of assets or data.
● Medium	Inherent risk of future exploits that may or may not impact the smart contract execution.
● Low	Minor deviation from best practices.

Methodology

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross-referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.
- Comprehensive written tests as a part of a code coverage testing suite.
- Contract fuzzing for increased attack resilience.

Findings & Resolutions

ID	Title	Category	Severity	Status
L-01	Security Contact Suggestion	Documentation	● Low	Acknowledged

L-01 | Security Contract Suggestion

Category	Severity	Location	Status
Security Contact	● Low	ZapToken.sol	Acknowledged

Description

The ZapToken contract does not include a security contact in it's NatSpec.

This is a best practice as it allows the deployer to direct communication of potential vulnerabilities, reducing the risk of a miscommunication or lack of reporting when a security vulnerability arises.

Recommendation

Consider adding a security contact in a NatSpec comment above the ZapToken contract. For example, the @custom:security-contact XXX@XXX.com convention is recommended.

Resolution

ZAP Team: Acknowledged.

Disclaimer

This report is not, nor should be considered, an "endorsement" or "disapproval" of any particular project or team. This report is not, nor should be considered, an indication of the economics or value of any "product" or "asset" created by any team or project that contracts Guardian to perform a security assessment. This report does not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technologies proprietors, business, business model or legal compliance.

This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

Blockchain technology and cryptographic assets present a high level of ongoing risk. Guardian's position is that each company and individual are responsible for their own due diligence and continuous security. Guardian's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies, and in no way claims any guarantee of security or functionality of the technology we agree to analyze.

The assessment services provided by Guardian is subject to dependencies and under continuing development. You agree that your access and/or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives, false negatives, and other unpredictable results. The services may access, and depend upon, multiple layers of third-parties.

Notice that smart contracts deployed on the blockchain are not resistant from internal/external exploit. Notice that active smart contract owner privileges constitute an elevated impact to any smart contract's safety and security. Therefore, Guardian does not guarantee the explicit security of the audited smart contract, regardless of the verdict.

About Guardian Audits

Founded in 2022 by DeFi experts, Guardian Audits is a leading audit firm in the DeFi smart contract space. With every audit report, Guardian Audits upholds best-in-class security while achieving our mission to relentlessly secure DeFi.

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