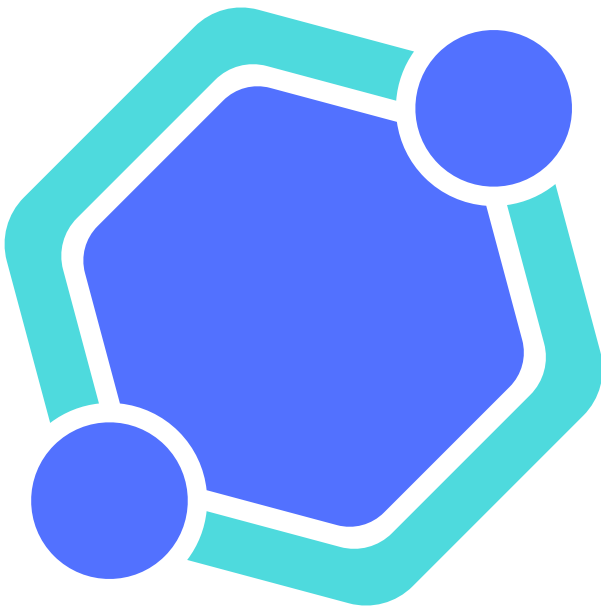


# AUDIT REPORT

April 2024



Audit conducted by  
RICARDO PONTES

# Summary

<b>Auditing Firm</b>	Crypto Hub
<b>Architecture</b>	Crypto Hub Auditing Standard
<b>Smart Contract Audit Approved By</b>	Ricardo   Blockchain Dev at Crypto Hub
<b>Platform</b>	Solidity
<b>Mandatory Audit Check</b>	Static, Software & Manual Analysis
<b>Consultation Request Date</b>	April 1, 2024
<b>Report Date</b>	April 1, 2024

## Audit Summary

Crypto Hub team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

- ★ Zobi Token smart contract source code has **LOW RISK SEVERITY**.
- ★ Zobi Token has **PASSED** the smart contract audit.

For the detailed understanding of risk severity, source code vulnerability, and functional test, kindly refer to the audit.

✅ Verify the authenticity of this report on Crypto Hub Website:

<https://www.cryptohub.agency/>



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## Project Overview

Crypto Hub was consulted by Zobi Token to conduct the smart contract security audit of their solidity source code.

Project	Zobi Token
Blockchain	Solana Network
Language	Solidity
Contracts	5CG6X7WzZKXbcNqiPajdDaoHk8MsFXUxDBMfXTBSNgqm
Website:	<a href="https://zobi.dog/">https://zobi.dog/</a>

Public logo:



**Solidity Source Code On Blockchain (Verified Contract Source Code)**

<https://solscan.io/token/5CG6X7WzZKXbcNqiPajdDaoHk8MsFXUxDBMfXTBSNgqm>

**Metadata:** <https://bafkreibvqtlzmeellrzkpndk57brly6rzzczshprcch56nn26fkzgi5wq.ipfs.nftstorage.link/>



# Audit Scope & Methodology

The scope of this report is to audit the above smart contract source code and Crypto Hub has scanned the contract and reviewed the project for common vulnerabilities, exploits, hacks, and back-doors. Below is the list of commonly known smart contract vulnerabilities, exploits, and hacks:

## Smart Contract Vulnerabilities

- ☐ Re-entrancy
- ☐ Unhandled Exceptions
- ☐ Transaction Order Dependency
- ☐ Integer Overflow
- ☐ Unrestricted Action
- ☐ Incorrect Inheritance Order
- ☐ Typographical Errors
- ☐ Requirement Violation

## Source Code Review

- ☐ Ownership Takeover
- ☐ Gas Limit and Loops
- ☐ Deployment Consistency
- ☐ Repository Consistency
- ☐ Data Consistency
- ☐ Token Supply Manipulation

## Functional Assessment

- ☐ Access Control and Authorization
- ☐ Operations Trail and Event Generation
- ☐ Assets Manipulation
- ☐ Liquidity Access



## *Crypto Hub Audit Standard*

The aim of Crypto Hub standard is to analyze the smart contract and identify the vulnerabilities and the hacks in the smart contract. Mentioned are the steps used by Crypto Hub to assess the smart contract:

### **1. Solidity smart contract source code reviewal:**

- ❖ Review of the specifications, sources, and instructions provided to Crypto Hub to make sure we understand the size, scope, and functionality of the smart contract.
- ❖ Manual review of code, which is the process of reading source code line-by-line to identify potential vulnerabilities.

### **2. Static, Manual, and Software analysis:**

- ❖ Test coverage analysis, which is the process of determining whether the test cases are covering the code and how much code is exercised when we run those test cases.
- ❖ Symbolic execution, which is analyzing a program to determine what inputs cause each part of a program to execute.

**3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.**

**4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts**

### **Automated 3P frameworks used to assess the smart contract vulnerabilities**

- ❖ Slither
- ❖ Consensys MythX
- ❖ Consensus Surya
- ❖ Open Zeppelin Code Analyzer
- ❖ Solidity Code Compiler



## Crypto Hub's Risk Classification

Smart contracts are generally designed to manipulate and hold funds denominated in ETH/BNB. This makes them very tempting attack targets, as a successful attack may allow the attacker to directly steal funds from the contract. Below are the typical risk levels of a smart contract: Vulnerable:

A contract is vulnerable if it has been flagged by a static analysis tool as such. As we will see later, this means that some contracts may be vulnerable because of a false-positive.

**Exploitable:** A contract is exploitable if it is vulnerable and the vulnerability could be exploited by an external attacker. For example, if the “vulnerability” flagged by a tool is in a function which requires to own the contract, it would be vulnerable but not exploitable.

**Exploited:** A contract is exploited if it received a transaction on the main network which triggered one of its vulnerabilities. Therefore, a contract can be vulnerable or even exploitable without having been exploited.

Risk severity	Meaning
! Critical	This level of vulnerability could be exploited easily, and can lead to asset loss, data loss, asset manipulation, or data manipulation. They should be fixed right away.
! High	This level vulnerabilities are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to critical risk severity
! Medium	This level of vulnerabilities should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution.
! Low	This level of vulnerability can be ignored. They are code style violations, and informational statements in the code. They may not affect the smart contract execution



# Smart Contract Risk Assessment

## Contract Snapshot

```
{
  "name": "Zobi",
  "symbol": "Zobi",
  "description": "Meet Zobi,your new fur-ever friend! Rescued from the streets and now a full-fledged
crypto enthusiast, Zobi's on a mission to spread tail-waggin' joy and make a pawsitive impact on the
world, one donation and wag at a time! Teaming up with the SPCA, he's not just making hearts flutter but
also helping grow your wallets while making a real difference in the world!  https://t.me/Zobi_SOL
https://twitter.com/Zobi_SOL      https://zobi.dog/",
  "image": "https://bafybeieg42ksnv5b3tg2gyhx43f6pl4ubjzcskr5ajdob4qy4khwa7ksia.ipfs.nftstorage.link",
  "address": "5CG6X7WzZKXbcNqiPajdDaoHk8MsFXUxDbMfXTBSNgqm",
  "icon": "https://bafybeieg42ksnv5b3tg2gyhx43f6pl4ubjzcskr5ajdob4qy4khwa7ksia.ipfs.nftstorage.link",
  "decimals": 6,
  "priceUsdt": null,
  "extensions": {
    "description": "Meet Zobi,your new fur-ever friend! Rescued from the streets and now a full-fledged
crypto enthusiast, Zobi's on a mission to spread tail-waggin' joy and make a pawsitive impact on the
world, one donation and wag at a time! Teaming up with the SPCA, he's not just making hearts flutter but
also helping grow your wallets while making a real difference in the world!  https://t.me/Zobi_SOL
https://twitter.com/Zobi_SOL      https://zobi.dog/"
  },
  "onChainExtensions": "",
  "key": 4,
  "updateAuthority": "ABMUjMcCqs8pZiD3FHRFZjH6gpMFFe3zXEMbMXCiXS4U",
  "mint": "5CG6X7WzZKXbcNqiPajdDaoHk8MsFXUxDbMfXTBSNgqm",
  "data": {
    "name": "Zobi",
    "symbol": "Zobi",
    "uri": "https://bafkreibvqtlzmeellrzkpsdnk57brly6rzzczshprcch56nn26fkzgi5wq.ipfs.nftstorage.link",
    "sellerFeeBasisPoints": 0
  },
  "primarySaleHappened": 0,
  "isMutable": 1,
  "editionNonce": 255,
  "tokenStandard": 2
}
```

## Manual Analysis

No Notes, Basic SPL Token





## Risk Status

Risk severity	Meaning
<b>! Critical</b>	None critical severity issues identified
<b>! High</b>	None high severity issues identified
<b>! Medium</b>	None medium severity issues identified
<b>! Low</b>	None low severity issues identified
<b>Verified</b>	4 functions and instances verified and checked
<b>Safety Score</b>	93 out of 100

## Report Summary

Crypto Hub team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks.

Zobi Token smart contract source code has **LOW RISK SEVERITY**.

Zobi Token has **PASSED** the smart contract audit.



### **Note for stakeholders:**

Be aware that active smart contract owner privileges constitute an elevated impact on smart contract's safety and security.

Make sure that the project team's KYC/identity is verified by an independent firm, e.g., Crypto Hub.

Always check if the contract's liquidity is locked. A longer liquidity lock plays an important role in the project's longevity. It is recommended to have multiple liquidity providers.

Examine the unlocked token supply in the owner, developer, or team's private wallets. Understand the project's tokenomics, and make sure the tokens outside of the LP Pair are vested or locked for a longer period of time.

Ensure that the project's official website is hosted on a trusted platform, and is using an active SSL certificate. The website's domain should be registered for a longer period of time.



## Audit & KYC Certificates

We hereby certificate Zobi Token smart contract as an audited project under the Crypto Hub enterprise umbrella. And to represent it as such we issued the following certificate:



# Legal Advisory

## *Important Disclaimer*

Crypto Hub provides contract auditing and project verification services for blockchain projects. The purpose of the audit is to analyze the on-chain smart contract source code, and to provide a basic overview of the project. This report should not be transmitted, disclosed, referred to, or relied upon by any person for any purposes without Crypto Hub prior written consent.

Crypto Hub provides the easy-to-understand assessment of the project, and the smart contract (otherwise known as the source code). The audit makes no statements or warranties on the security of the code. It also cannot be considered as an adequate assessment regarding the utility and safety of the code, bug-free status, or any other statements of the contract. While we have used all the data at our disposal to provide the transparent analysis, it is important to note that you should not rely on this report only — we recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts. Be aware that smart contracts deployed on a blockchain aren't resistant from external vulnerability, or a hack. Be aware that active smart contract owner privileges constitute an elevated impact to smart contract's safety and security. Therefore, Crypto Hub does not guarantee the explicit security of the audited smart contract.

The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

This report should not be considered as an endorsement or disapproval of any project or team. The information provided in this report does not constitute investment advice, financial advice, trading advice, or any other sort of advice and you should not treat any of the report's content as such. Do conduct your own due diligence and consult your financial advisor before making any investment decisions.



## *About Crypto Hub*

Crypto Hub provides intelligent blockchain solutions. Crypto Hub is developing an ecosystem that is seamless and responsive. Some of our services: Blockchain Security, Token Launchpad, NFT Marketplace, etc. Crypto Hub's mission is to interconnect multiple services like Blockchain Security, DeFi, Gaming, and Marketplace under one ecosystem that is seamless, multi-chain compatible, scalable, secure, fast, responsive, and easy-to-use.

Crypto Hub is built by a decentralized team of UI experts, contributors, engineers, and enthusiasts from all over the world. Our team currently consists of 3+ core team members, and 6+ casual contributors. Crypto Hub provides manual, static, and automatic smart contract analysis, to ensure that the project is checked against known attacks and potential vulnerabilities.

