

SECURITY AUDIT OF

REDHEAL TOKEN



Public Report

May 09, 2025

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 $Driving \ Technology > Forward$

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ABBREVIATIONS

Name	Description	
Smart contract	A computer protocol intended to digitally facilitate, verify or enforce the negotiation or performance of a contract.	
Solidity	A contract-oriented, high-level language for implementing smart contracts f the Ethereum platform.	
Solc	A compiler for Solidity.	
ERC20	ERC20 (BEP20 in Binance Smart Chain or xRP20 in other chains) tokens are blockchain-based assets that have value and can be sent and received. The primary difference with the primary coin is that instead of running on their own blockchain, ERC20 tokens are issued on a network that supports smart contracts such as Ethereum or Binance Smart Chain.	
Polygon	Polygon is a protocol and a framework for building and connecting Ethereum-compatible blockchain networks. Aggregating scalable solutions on Ethereum supporting a multi-chain Ethereum ecosystem.	

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EXECUTIVE SUMMARY

This Security Audit Report was prepared by Verichains Lab on May 09, 2025. We would like to thank the REDHeal Company for trusting Verichains Lab in auditing smart contracts. Delivering high-quality audits is always our top priority.

This audit focused on identifying security flaws in code and the design of the REDHeal Token. The scope of the audit is limited to the source code files provided to Verichains. Verichains Lab completed the assessment using manual, static, and dynamic analysis techniques.

During the audit process, the audit team had identified no vulnerable issue in the smart contract code.

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1. MANAGEMENT SUMMARY

1.1. About REDHeal Token

The REDHeal project is a decentralized finance (DeFi) ecosystem built on blockchain technology, offering a range of decentralized financial services. At its core is the REDH token, which serves a dual purpose: as a utility token for value exchange and rewards, and as a governance token empowering users to participate in the platform's DAO.

REDHeal aims to establish a sustainable liquidity pool where users can deposit tokens to earn returns. The platform also provides DeFi services such as staking and crypto-backed loans, leveraging smart contracts and distributed ledger technology to ensure transparency, efficiency, and broad accessibility.

For more information, visit the official REDHeal website at https://redheal.io/

1.2. Audit Scope

This audit focused on identifying security flaws in code and the design of the REDHeal Token. It was conducted on commit a@d6ba32f53df8a5a5912c98fad3aed@6ffc5c5a from git repository: https://github.com/redhealcompany/Redheal

SHA256 Sum	File
8e9098c444490e4353b87341b4099d4e3c6f57a8f596b26dfd0d16ffd4de7738	redhealToken.sol

The latest version was made available in the course of the review:

FIELD	VALUE		
Deployed Address	https://polygonscan.com/token/0x226a6e9e1c5815b3037b461d7e53aa952c06f518		
Tx Deploy	https://polygonscan.com/tx/0xe79c894db41eb28f5dcc89f26dd41740df82f400f354549 6f7341aafac988a0b		
Deployer	0xc4d8D2F1005ddBCC096eab6E3C6cb424fE45BF1a		
Block Number	70731775		

Table 1. REDHeal Token's deployed properties

1.3. Audit Methodology

Our security audit process for smart contract includes two steps:

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- Smart contract codes are scanned/tested for commonly known and more specific vulnerabilities using public and RK87, our in-house smart contract security analysis tool.
- Manual audit of the codes for security issues. The contracts are manually analyzed to look for any potential problems.

Following is the list of commonly known vulnerabilities that were considered during the audit of the smart contract:

- Integer Overflow and Underflow
- Timestamp Dependence
- Race Conditions
- Transaction-Ordering Dependence
- DoS with (Unexpected) revert
- DoS with Block Gas Limit
- Gas Usage, Gas Limit and Loops
- Redundant fallback function
- Unsafe type Inference
- Reentrancy
- Explicit visibility of functions state variables (external, internal, private and public)
- Logic Flaws

For vulnerabilities, we categorize the findings into categories as listed in table below, depending on their severity level:

SEVERITY LEVEL	DESCRIPTION	
CRITICAL	A vulnerability that can disrupt the contract functioning; creates a critical risk to the contract; required to be fixed immediately.	
HIGH	A vulnerability that could affect the desired outcome of executing the contract with high impact; needs to be fixed with high priority.	
MEDIUM	A vulnerability that could affect the desired outcome of executing t contract with medium impact in a specific scenario; needs to be fixed.	
LOW	An issue that does not have a significant impact, can be considered as less important.	

Table 2. Severity levels

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1.4. Disclaimer

REDHeal Company acknowledges that the security services provided by Verichains, are conducted to the best of their professional abilities but cannot guarantee 100% coverage of all security vulnerabilities. REDHeal Company understands and accepts that despite rigorous auditing, certain vulnerabilities may remain undetected. Therefore, REDHeal Company agrees that Verichains shall not be held responsible or liable, and shall not be charged for any hacking incidents that occur due to security vulnerabilities not identified during the audit process.

1.5. Acceptance Minute

This final report served by Verichains to the REDHeal Company will be considered an Acceptance Minute. Within 7 days, if no any further responses or reports is received from the REDHeal Company, the final report will be considered fully accepted by the REDHeal Company without the signature.

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2. AUDIT RESULT

2.1. Overview

The REDHeal Token was written in solidity language, with the required version to be ^0.8.29. The source code was written based on **OpenZeppelin's library**.

The token contract extends both the ERC20 and Ownable contracts from version 4.9.0. Through Ownable, the contract deployer sets the Owner through the constructor, and the total supply is minted to this Owner. The token is an ERC20 implementation with the following properties:

PROPERTY	VALUE
Name	Redheal
Symbol	REDH
Decimals	18
Total Supply	$1,500,000,000 \text{ (x}10^{18}\text{)}$ Note: the number of decimals is 18, so the total representation token will be $1,500,000,000 \text{ or } 1,5 \text{ billion.}$

Table 3. The REDHeal Token properties

2.2. Findings

During the audit process, the audit team had identified no vulnerable issue in the smart contract code.

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3. VERSION HISTORY

Version	Date	Status/Change	Created by
1.0	May 09, 2025	Public Report	Verichains Lab

Table 4. Report versions history