SPYWOLF

Security Audit Report

Audit prepared for

SCORCH

Completed on

July 1, 2025

OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- Contract's source code
- Owners' wallets
- Tokenomics
- Team transparency and goals
- Website's age, code, security and UX
- Whitepaper and roadmap
- Social media & online presence

The results of this audit are purely based on the team’s evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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SCORCH

PROJECT DESCRIPTION

SCORCH is built on Shibarium Layer-2. Its main launch feature is the conversion (or "burning") of SHIB in exchange for SCORCH tokens. This mechanism permanently removes SHIB from circulation.

As the project expands, it becomes a "burn platform" that any project owner or token holder can use to facilitate community-driven token burns.

Release Date: TBD

Category: Presale

CONTRACT INFO

Token Name
SCORCH

Symbol
SCORCH

Contract Address
Testnet

Network
Ethereum

Language
Solidity

Deployment Date
Not Deployed Yet

Contract Type
Staking

Total Supply
15,000,000,000

Status
Not Deployed Yet

TAXES

Buy Tax
1%

Sell Tax
1%

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- 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.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

TOKEN TRANSFERS STATS

Transfer Count	Not Deployed Yet
Uniq Senders	Not Deployed Yet
Uniq Receivers	Not Deployed Yet
Total Amount	Not Deployed Yet
Median Transfer Amount	Not Deployed Yet
Average Transfer Amount	Not Deployed Yet
First transfer date	Not Deployed Yet
Last transfer date	Not Deployed Yet
Days token transferred	Not Deployed Yet

SMART CONTRACT STATS

Calls Count	Not Deployed Yet
External calls	Not Deployed Yet
Internal calls	Not Deployed Yet
Transactions count	Not Deployed Yet
Uniq Callers	Not Deployed Yet
Days contract called	Not Deployed Yet
Last transaction time	Not Deployed Yet
Created	Not Deployed Yet
Create TX	Not Deployed Yet
Creator	Not Deployed Yet

VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	**Passed**
SWC-101	Integer Overflow and Underflow	**Passed**
SWC-102	Outdated Compiler Version	**Passed**
SWC-103	Floating Pragma	**Passed**
SWC-104	Unchecked Call Return Value	**Passed**
SWC-105	Unprotected Ether Withdrawal	**Passed**
SWC-106	Unprotected SELFDESTRUCT Instruction	**Passed**
SWC-107	Reentrancy	**Passed**
SWC-108	State Variable Default Visibility	**Passed**
SWC-109	Uninitialized Storage Pointer	**Passed**
SWC-110	Assert Violation	**Passed**
SWC-111	Use of Deprecated Solidity Functions	**Passed**
SWC-112	Delegatecall to Untrusted Callee	**Passed**
SWC-113	DoS with Failed Call	**Passed**
SWC-114	Transaction Order Dependence	**Passed**
SWC-115	Authorization through tx.origin	**Passed**
SWC-116	Block values as a proxy for time	**Passed**
SWC-117	Signature Malleability	**Passed**
SWC-118	Incorrect Constructor Name	**Passed**

VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed

VULNERABILITY ANALYSIS

NO ERRORS FOUND

MANUAL
CODE REVIEW

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

THREAT LEVELS

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.

FOUND THREATS

Informational

Unified Contract Architecture

The updated contract merges the logic from the previous two-contract (Presale and Vault) system into a single, unified contract. This is a significant architectural improvement. It simplifies the overall design, eliminates the risks associated with inter-contract communication, and makes the system easier to understand and audit.

Linear Vesting for Token Claims

The contract implements a linear vesting schedule for users to claim their purchased tokens. After their first purchase, a user can claim 10% of their total purchased tokens every 14 days. This is a valuable feature that encourages long-term holding and prevents immediate sell-offs after the presale, which can help stabilize the token's initial market value.

Hardcoded Addresses and Parameters

The contract hardcodes numerous addresses and parameters directly within the initialize function, including token addresses, Chainlink price feeds, and the details for all ten sale phases. While this approach works for a single deployment, it reduces flexibility. If the project needs to deploy on a different network (like mainnet) or use different parameters, the contract code itself must be modified. A more flexible design would be to allow the owner to set these parameters through separate administrative functions.

Incomplete Event Logging for Transparency

While the contract emits events for purchases and withdrawals, several administrative functions that modify critical state variables do not emit events. For example, setBonus, setPhase, and setPaymentCurrency change key parameters without creating an on-chain log. Adding events for all state-changing administrative actions would improve transparency and make it easier for the community and third-party tools to monitor contract governance.

SUMMARY & CONCLUSION

Following a diligent and iterative review process, the Scorch team has successfully addressed all previously identified security vulnerabilities. The final version of the Presale.sol contract demonstrates a strong commitment to security and best practices.

The initial architectural improvements, which consolidated the system into a single, unified contract, have been enhanced with crucial fixes. The critical calculation flaw in the ETH payment function has been corrected, and the logic for oracle price validation, bonus percentage caps, and safe ETH transfers now aligns with industry standards.

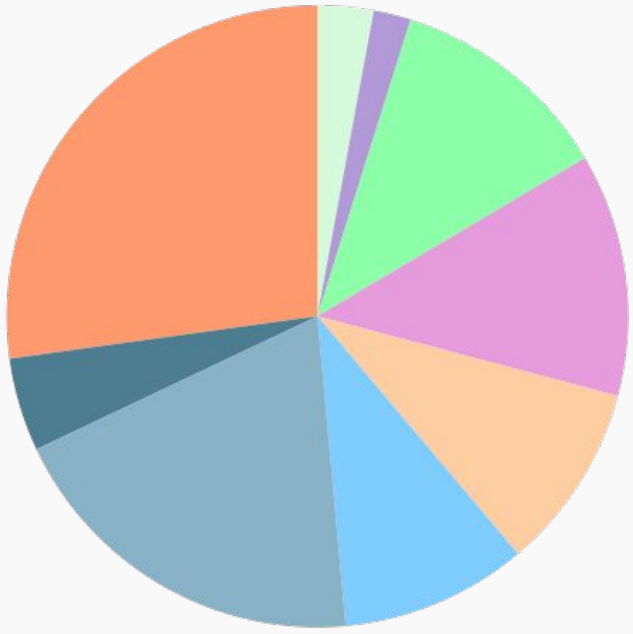
With these essential fixes, the Presale.sol contract is now considered secure and robust. The final design, which includes a clear vesting schedule for token claims and transparent on-chain mechanics, meets the standards required for a safe presale event. The project is well-positioned for a successful and secure launch.

TOKENOMICS

*The following tokenomics are based on the project's whitepaper and/or website:

Tokens distribution

- Team & Founders (3.33%)
- Advisors & Partnerships (1.67%)
- Ecosystem Development (11.67%)
- Pre-Sale (13.33% = 2 billion tokens)
- Liquidity Pool (10%)
- Community Rewards/Airdrops (10%)
- Staking Pools (20%)
- Expansion Plans (5%)
- Burning Platform Reserve (28.33%)



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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.