SPYWOLF

Security Audit Report

Audit prepared for

Houdini Swap

Completed on

April 28, 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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Houdini Swap

PROJECT DESCRIPTION:

According to project's whitepaper:

We aggregate the best prices across every major source of liquidity sources to identify the cheapest route for every type of transaction we offer.
We are 100% non-custodial, meaning we never control your tokens throughout any part of the transaction process.
We also do not charge you fees, nor do we keep any discrepancy between quoted and realized prices should it occur.

Release Date: Feb 6th, 2024

Launchpad: Fairlaunch

Category: DeFi

KEY RESULTS

Cannot mint new tokens	PASSED
Cannot pause trading (honeypot)	PASSED
Cannot blacklist an address	NOT PASSED
Cannot raise taxes over 25%?	PASSED
No proxy contract detected	PASSED
Not required to enable trading	PASSED
No hidden ownership	PASSED
Cannot change the router	PASSED
No cooldown feature found	PASSED
Bot protection delay is lower than 5 blocks	PASSED
Cannot set max tx amount below 0.05% of total supply	PASSED
The contract cannot be self-destructed by owner	PASSED

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

*Only new deposits/reinvestments can be paused

CONTRACT INFO

Token Name
Houdini Swap

Symbol
LOCK

Contract Address
0x922D8563631B03C2c4cf817f4d18f6883AbA0109

Network
Ethereum

Language
Solidity

Deployment Date
Jan 31, 2024

Contract Type
Standard token

Total Supply
100,000,000

Decimals
18

TAXES

Buy Tax
1%

Sell Tax
1%

*Unioswap V3 1% pool

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

SMART CONTRACT STATS

Calls Count	926
External calls	98
Internal calls	828
Transactions count	421
Last transaction time	2024-10-09 18:10:11 UTC
Deployment Date	2024-10-02 00:01:35 UTC
Create TX	0x54ea28c4b74e781acc080dd1a6272deb865bbb4d67e43f478bf9b8252321edfe
Owner	0xCf7c9510eB0Fa2113d6Dc07424162d3154af2594
Deployer	0xc93647e12eb38389d748f5ab04cd6ead0a22f973

TOKEN TRANSFERS STATS

Transfer Count	34045
Total Amount	413926076.1228686 LOCK
Median Transfer Amount	1126.4195366519345 LOCK
Average Transfer Amount	12158.20461515255 LOCK
First transfer date	2024-01-31
Last transfer date	2024-10-09
Days token transferred	253 Days

FEATURED WALLETS

Owner address	0xCf7c9510eB0Fa2113d6Dc07424162d3154af2594
Marketing fee receiver	0xCf7c9510eB0Fa2113d6Dc07424162d3154af2594
LP address	**Uniswap V3:** 0x7D45a2557bECd766A285d07a4701f5c64D716e2f **LP Positions NFT Held by:** 0xCf7c9510eB0Fa2113d6Dc07424162d3154af2594 Gnosis Safe proxy multi sig wallet (same as owner)

TOP 3 WALLETS

25.8%	Proxy contract 0x4401c51110e7d3a970Fe48AeaeE8249b181210a1
9.42%	Treasury private wallet 0x468753b683679999C53638b641327840C22d8b75
8.45%	Vesting contract 0x5A8a3B16B653FCa0d719cb9Dbb8AE3f32b91002B

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.

Code Score: 95%

FOUND THREATS

⚠ High Risk: 0

No high risk-level threats found in this contract.

⚠ Medium Risk: 0

No medium risk-level threats found in this contract.

⚠ Low Risk: 1

1 low risk-level threat found in this contract.

FOUND THREATS

⚠ Low Risk

Owner can add addresses to bot list (blacklist)..
Blacklisted addresses cannot participate in token transfer/trading.

```
function setBots(address[] calldata accounts, bool value) public onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        if (
            (!_automatedMarketMakerPair[accounts[i]]) &&
            (accounts[i] != address(swapRouter)) &&
            (accounts[i] != address(this)) &&
            (!_isExcludedFromLimits[accounts[i]])
        ) _setBots(accounts[i], value);
    }
}

function _setBots(address account, bool value) internal virtual {
    _isBot[account] = value;
    emit SetBots(account, value);
}

function _transfer(address from, address to, uint256 amount) internal virtual override {
.....................
    if (_isExcludedFromLimits[from] || _isExcludedFromLimits[to]) {
        super._transfer(from, to, amount);
        return;
    }

    require(!_isBot[from], "HoudiniSwapToken: bot detected");
    require(
        _msgSender() == from || !_isBot[_msgSender()],
        "HoudiniSwapToken: bot detected"
    );
    require(
        tx.origin == from ||
            tx.origin == _msgSender() ||
            !_isBot[tx.origin],
        "HoudiniSwapToken: bot detected"
    );
.....................
}
```

- Recommendation:
  - Considered as good practice is adding addresses to blacklist to be done in automated manner for limited time during first minutes after token's launch and/or based on reasonable criteria thereafter.

FOUND THREATS

Informational: 2

Owner can send tokens to multiple addresses at once (airdrop).

```
function airdrop(
    address[] memory accounts,
    uint256[] memory amounts
) public onlyOwner {
    require(
        accounts.length == amounts.length,
        "HoudiniSwapToken: Arrays must be the same length"
    );
    for (uint256 i = 0; i < accounts.length; i++) {
        address account = accounts[i];
        uint256 amount = amounts[i];
        _transfer(_msgSender(), account, amount);
        emit Airdrop(account, amount);
    }
}
```

Owner can launch the token only once. Trading cannot be stopped after token launch. Token is already launched.

```
function launch() public onlyOwner {
    require(!launched, "HoudiniSwapToken: Already launched.");
    IUniswapV3Factory uniswapV3Factory = IUniswapV3Factory(
        swapRouter.factory()
    );
    address WETH9 = swapRouter.WETH9();
    address uniswapV3Pool = uniswapV3Factory.getPool(
        address(this),
        WETH9,
        10000
    );
    if (uniswapV3Pool == ZERO_ADDRESS) {
        uniswapV3Pool = uniswapV3Factory.createPool(
            address(this),
            WETH9,
            10000
        );
    }

    _setAutomatedMarketMakerPair(address(uniswapV3Pool), true);

    _ammProtectionEnabled = true;
    launched = true;
    emit Launch(block.number, block.timestamp);
}
```

FOUND THREATS

Informational: 2

Owner can withdraw any tokens from the contract
When this function is present, in cases tokens and ETH are sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function withdrawStuckTokens(address tkn) public onlyOwner {
    uint256 amount;
    if (tkn == ZERO_ADDRESS) {
        bool success;
        amount = address(this).balance;
        (success, ) = address(_msgSender()).call{value: amount}("");
    } else {
        amount = IERC20(tkn).balanceOf(address(this));
        require(amount > 0, "HoudiniSwapToken: No tokens");
        IERC20(tkn).safeTransfer(_msgSender(), amount);
    }
    emit WithdrawStuckTokens(tkn, amount);
}
```

Owner can withdraw any tokens from the contract
Owner can exclude address from limits such as blacklist.

```
function excludeFromLimits(
    address[] calldata accounts,
    bool value
) public onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        _excludeFromLimits(accounts[i], value);
    }
}

function _excludeFromLimits(address account, bool value) internal virtual {
    _isExcludedFromLimits[account] = value;
    emit ExcludeFromLimits(account, value);
}
```

FOUND THREATS

Informational: 2

Owner can add additional addresses to be treated as automated market maker (typically liquidity pools).
Already added automated market makers cannot be removed.

```
function setAutomatedMarketMakerPair(
    address account,
    bool value
) public onlyOwner onlyContract(account) {
    require(
        !_automatedMarketMakerPair[account],
        "HoudiniSwapToken: AMM Pair already set."
    );
    _setAutomatedMarketMakerPair(account, value);
}

function _setAutomatedMarketMakerPair(
    address account,
    bool value
) internal virtual {
    _automatedMarketMakerPair[account] = value;
    emit SetAutomatedMarketMakerPair(account, value);
}
```

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

Tokenomics:

Holders - 32.49%,

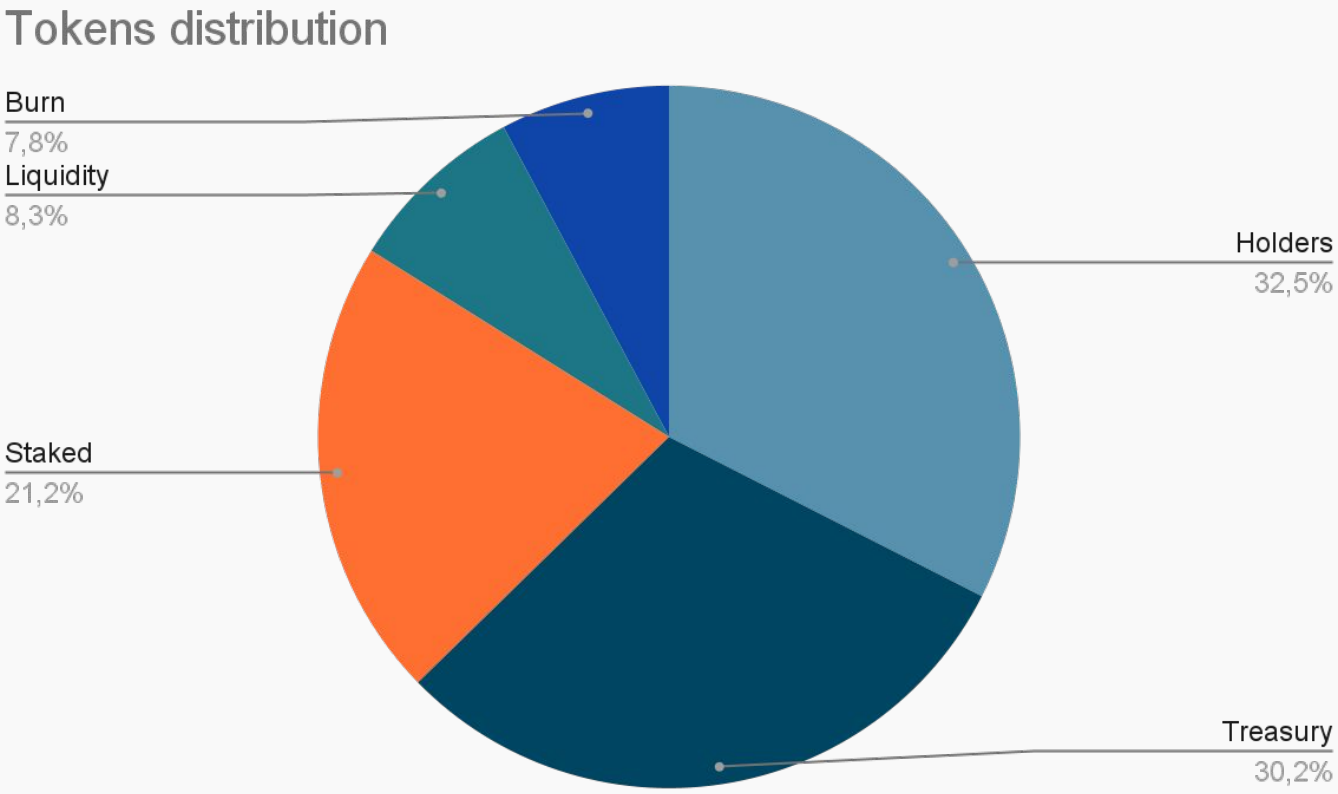
Treasury - 30.19%,

Staked - 21.21%,

Liquidity - 8.3%,

Burn - 7.81%,

Tokens Distribution



WEBSITE

Website URL:
https://houdiniswap.com/

Domain Registry
https://www.godaddy.com

Domain Expiration
2025-04-12

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

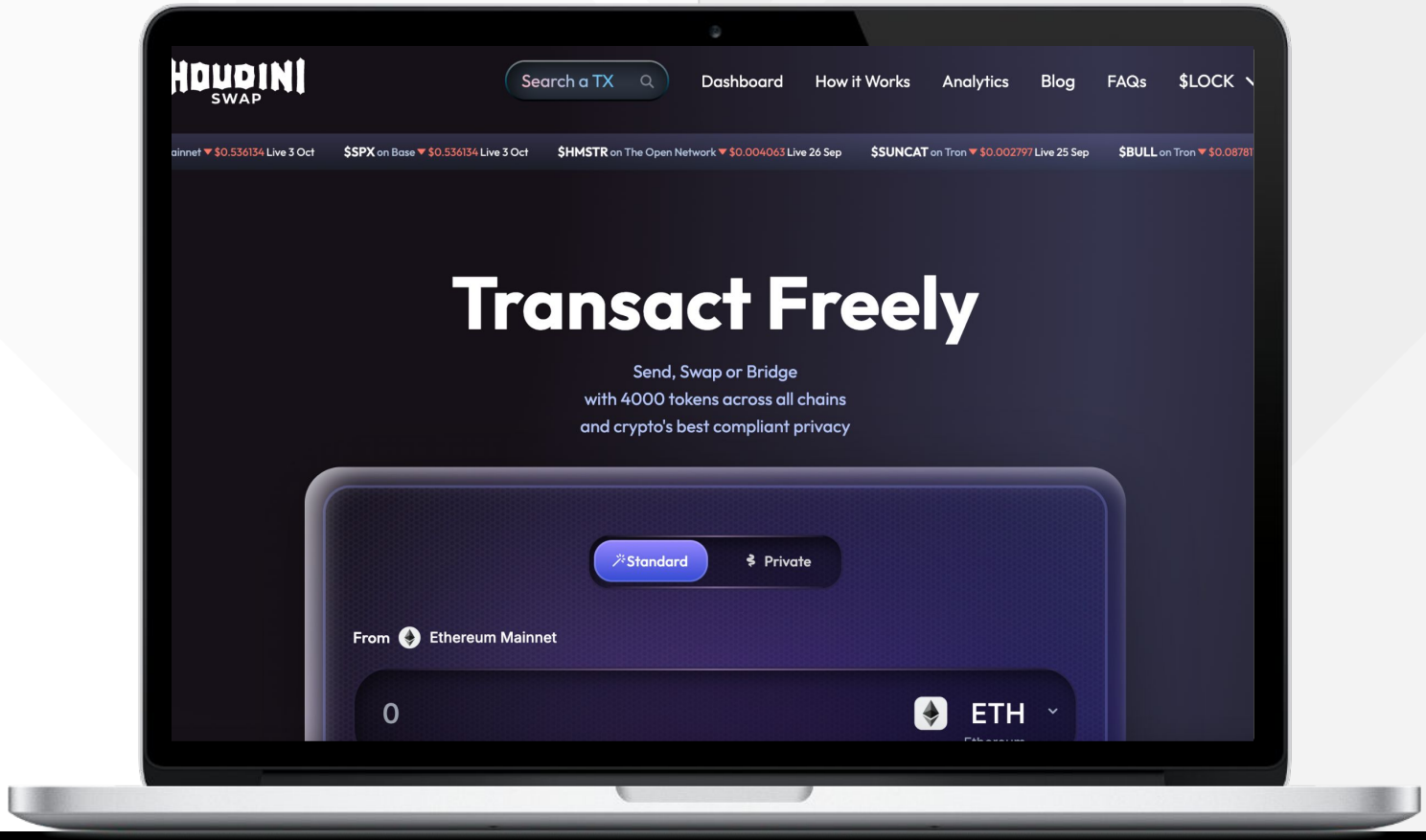
Design
Very nice color scheme and overall layout.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
Well written, explanatory.

Roadmap
Yes

Mobile-friendly?
Yes



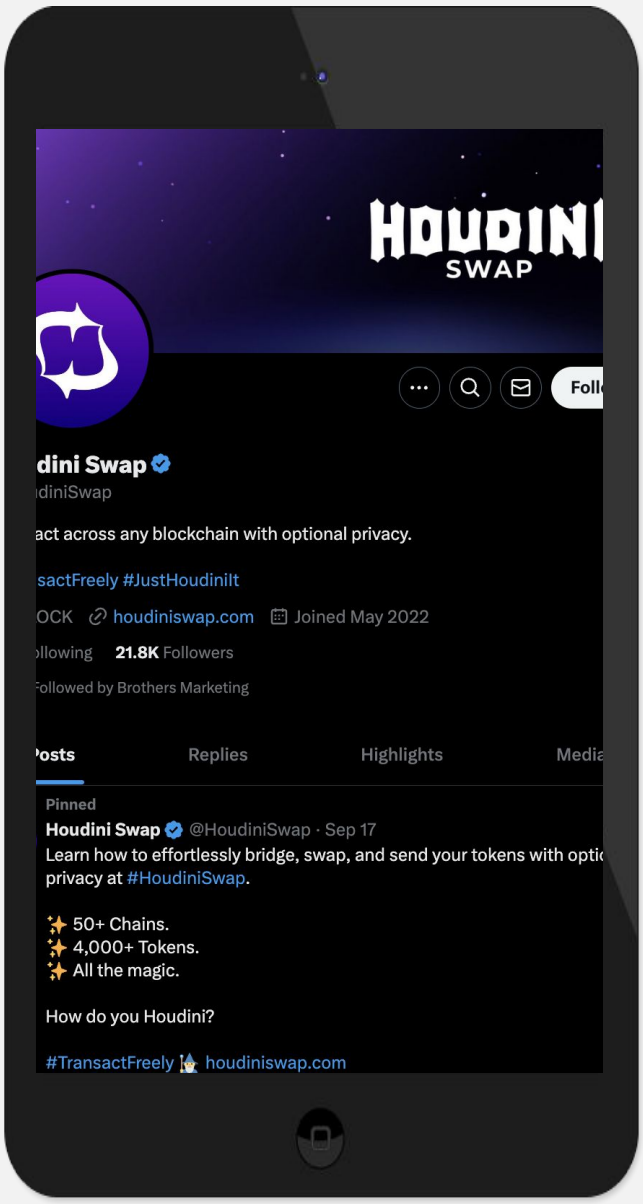
Website Score: 100%

SOCIAL MEDIA

Social Score: 100%

ANALYSIS

Project’s social media pages are active



Twitter:

@houdiniswap

- 21 900 followers
- Posts regularly
- Active

Discord

unavailable

Telegram:

@houdiniswap

- 5 021 members
- Active members
- Active mods

Medium

houdiniswap.medium.com

- 96 Followers
- 70+ articles
- Active

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