soken

SMART CONTRACT SECURITY AUDIT

ETHAX

Scan and check this report
was posted at Soken Github

April, 2022

Website: soken.io

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Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Our analysis contains following steps:

1. Project Analysis;

2. Manual analysis of smart contracts:
- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- Hashes of all transaction will be recorded
- Behaviour of functions and gas consumption is noted, as well.

3. Unit Testing:
- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

4. Automated Testing:
- Mythril
- Oyente
- Manticore
- Solgraph

Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue —important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue —serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

Token Contract Details for 01.04.2022

Contract Name: **ETHAX**

Deployed address: **0x854F7Cd3677737241E3eED0dC3d7F33DFAF72Bc4**

Total Supply: **800,000,008**

Token Tracker: **ETHAX**

Decimals: **18**

Token holders: **71**

Transactions count: **20,736**

Top 100 holders dominance: **100.00%**

Audit Details

Project Name: **ETHAX**

Language: **Solidity**

Compiler Version: **v0.6.6**

Blockchain: **BSC**

Social Profiles

Project Website: **https://www.ethax.com/**

Project Telegram: **https://t.me/ETHAXCRYPTOPUBLIC**

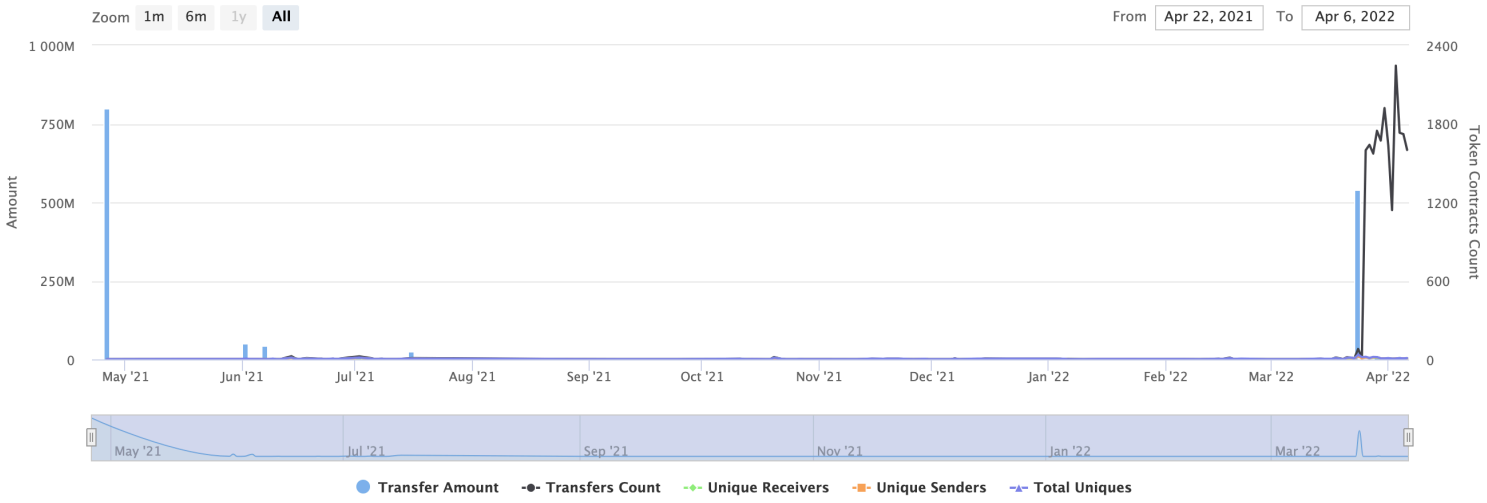
Project Twitter: **https://twitter.com/EthaxCrypto**

Project Facebook: **https://www.facebook.com/ethaxcrypto/**

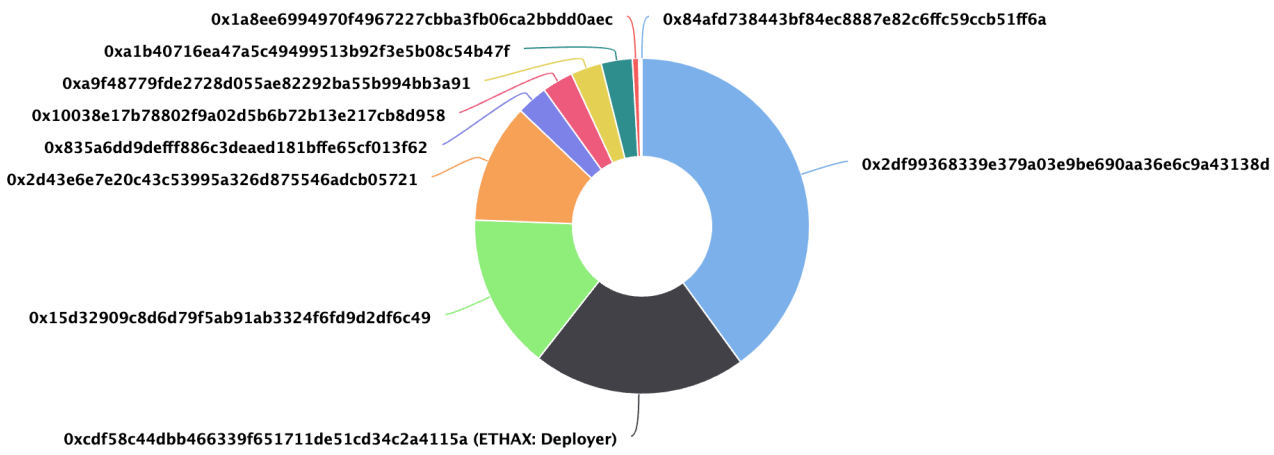
Project Instagram: **https://www.instagram.com/ethaxcrypto/**

Project YouTube: **https://www.youtube.com/channel/UCDTxZjA0x7PS1LxXC4S7XgA**

Contract Analytics



ETHAX Token Distribution



ETHAX Top Holders

Rank	Address	Quantity (Token)	Percentage
1	0x2df99368339e379a03e9be690aa36e6c9a43138d	320,000,000	40.0000%
2	ETHAX: Deployer	164,813,583.12999556716803866	20.6017%
3	0x15d32909c8d6d79f5ab91ab3324f6fd9d2df6c49	120,000,000	15.0000%
4	0x2d43e6e7e20c43c53995a326d875546adcb05721	91,830,693	11.4788%
5	0x835a6dd9defff886c3deaed181bffe65cf013f62	24,000,000	3.0000%
6	0x10038e17b78802f9a02d5b6b72b13e217cb8d958	24,000,000	3.0000%
7	0xa9f48779fde2728d055ae82292ba55b994bb3a91	24,000,000	3.0000%
8	0xa1b40716ea47a5c49499513b92f3e5b08c54b47f	24,000,000	3.0000%
9	0x1a8ee6994970f4967227cbba3fb06ca2bbdd0aec	4,835,995.097999692923753778	0.6045%
10	0x63d70fc5019dbc1eb57d0b49f7a5b37bf694ff9d	1,000,000	0.1250%

Token Creator and Transaction

Creator: **0xCdf58c44dbb466339f651711de51Cd34c2A4115a**

Transaction:
0xfac6b2a8066a5181abecc23706cb16ae89901a6101b9ccb9f7ce24ac766dcd9c

Swap Analysis

✔ Token is sellable (not a honeypot) at this time

✔ Buy fee is less than 10% (0%)

✔ Sell fee is less than 10% (0%)

Contract Analysis

✔ Verified contract source

✘ No prior similar token contracts

✔ Ownership renounced or source does not contain an owner contract.

✔ Creator not authorized for special permission

Whitepaper of the project

The whitepaper of ETHAX project has been verified on behalf of Soken team.

Whitepaper link: **https://www.ethax.com/wp-content/uploads/2021/11/ETHAX-WHITEPAPER-Vs1_0r.pdf**

Contract Function Details

+ Contract Source Code
- [Int] _msgSender
- [Int] _msgData
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom
- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod
- [Int] isContract
- [Int] sendValue
- [Int] functionCall
- [Int] functionCall
- [Int] functionCallWithValue
- [Int] functionCallWithValue
- [Prv] _functionCallWithValue
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer
- [Pub] allowance
- [Pub] approve
- [Pub] transferFrom
- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Int] _transfer
- [Int] _mint
- [Int] _burn
- [Int] _approve
- [Int] _beforeTokenTransfer
- [Int] safeTransfer
- [Int] safeTransferFrom
- [Int] safeApprove

- [Int] safeIncreaseAllowance
- [Prv] _callOptionalReturn

Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

Security Issues

Conclusion

Smart contracts are free from any low, medium, critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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