



MOTECH AUDIT

SMART CONTRACT SECURITY AUDIT

SECURITY ASSESSMENT

METAWARS TOKEN AUDIT REPORT

2021

18 NOV 2021

SECURITY ASSESMENT

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SUMMARY

This report has been prepared for MetaWars to discover issues and vulnerabilities in the source code of the MetaWars project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis, Manual Review, and Testnet Deployment techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- 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.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases given they are currently missing in the repository;
- Provide more comments per each function for readability, especially contracts are verified in public;
- Provide more transparency on privileged activities once the protocol is live.



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DISCLAIMER

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the 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 below disclaimer below – please make sure to read it in full.

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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.



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BACKGROUND

MotechAudit was commissioned by MetaWars to perform an audit of smart contracts:

<https://bscscan.com/address/0x50e756a22ff5cEE3559D18B9D9576bc38F09Fa7c>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.



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AUDIT DETAILS



AUDITED PROJECT

MetaWars



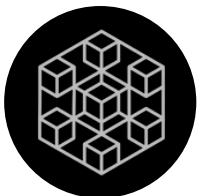
DEPLOYER ADDRESS

0x13F27beF3781a7bc7D143831894BA19F515D1Ba1



CLIENT CONTACTS:

MetaWars Team



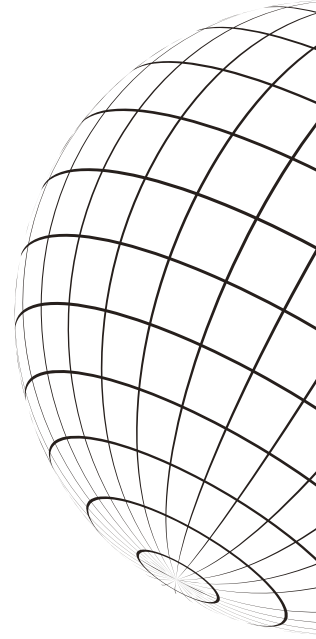
BLOCKCHAIN

Binance smart chain Project



WEBSITE:

<https://mechmaster.io/>

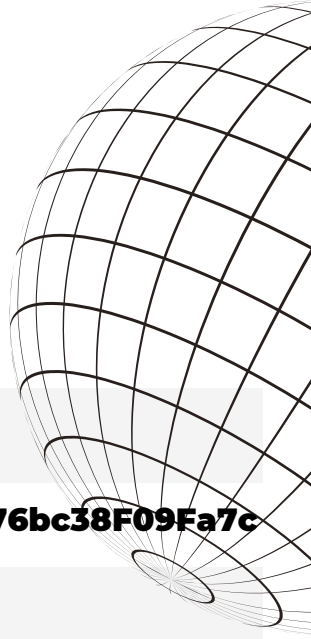


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CONTRACT DETAILS

Token contract details for Oct-21-2021



Contract name	MetaWars
Contract address	0x50e756a22ff5cEE3559D18B9D9576bc38F09Fa7c
Total supply	1,500,000,000 WARS
Token ticker	MetaWars (WARS)
Decimals	18
Token holders	19,445
Transactions count	147,826
Top 100 holders dominance	0.9822%
Contract deployer address	0x13F27beF3781a7bc7D143831894BA19F515D1Ba1
Contract's current owner address	0x13F27beF3781a7bc7D143831894BA19F515D1Ba1

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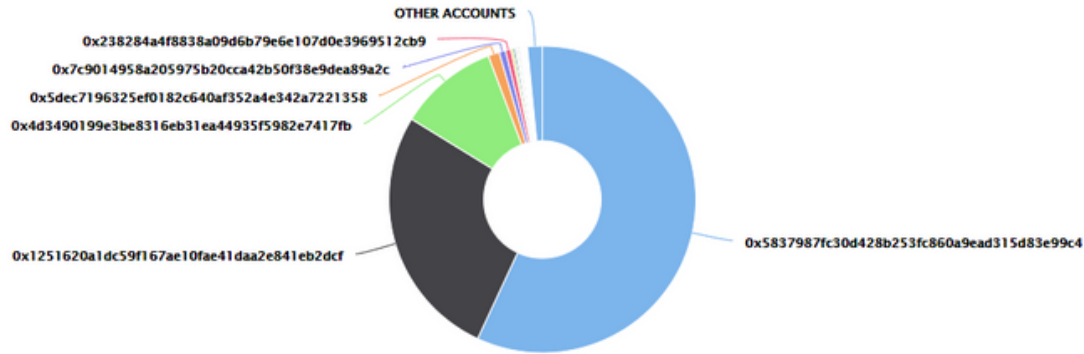
METAWARS TOKEN DISTRIBUTION

The top 100 holders collectively own 98.46% (1,476,844,688.22 Tokens) of MetaWars

Token Total Supply: 1,500,000,000.00 Token | Total Token Holders: 19,445

MetaWars Top 100 Token Holders

Source: BscScan.com



(A total of 1,476,844,688.22 tokens held by the top 100 accounts from the total supply of 1,500,000,000.00 token)

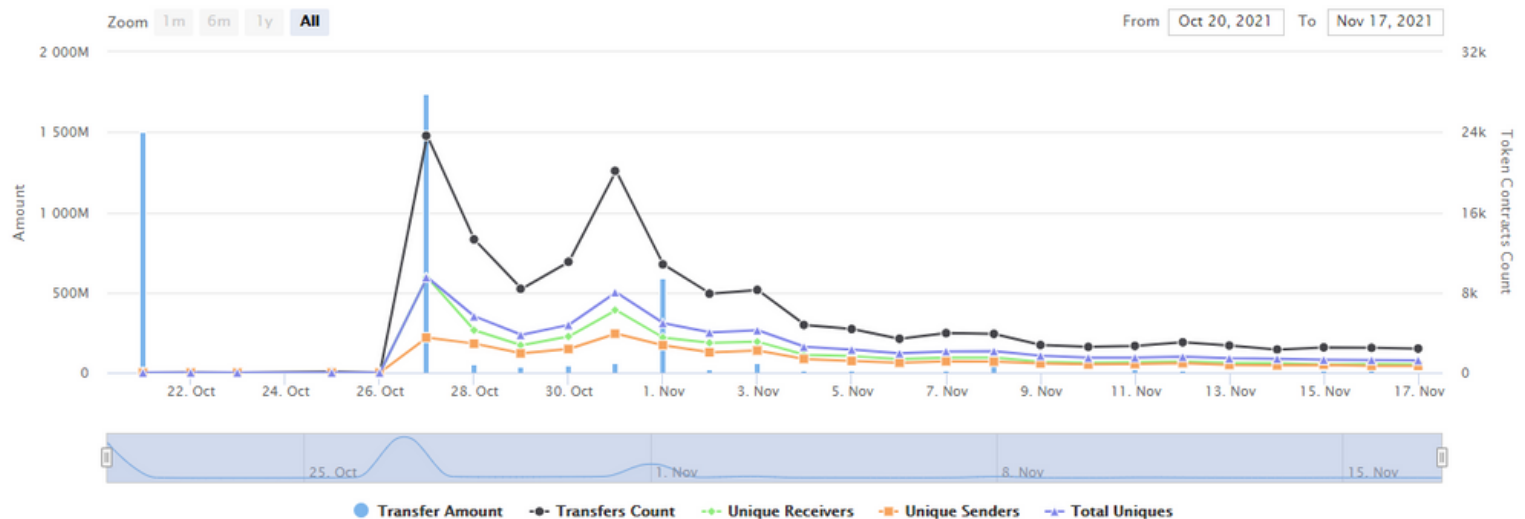
METAWARS TOKEN CONTRACT INTERACTION DETAILS

Time Series: Token Contract Overview

Thu 21, Oct 2021 - Wed 17, Nov 2021

Token Contract 0x50e756a22ff5cEE3559D18B9D9576bc38F09Fa7c (MetaWars)



















Source: BscScan.com



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TOP 10 TOKEN HOLDERS

Rank	Address	Quantity	Percentage	Analytics
1	 0x5837987fc30d428b253fc860a9ead315d83e99c4	854,241,030.975	56.9494%	
2	 0x1251620a1dc59f167ae10fae41daa2e841eb2dcf	402,310,068.398961501720736648	26.8207%	
3	 0x4d3490199e3be8316eb31ea44935f5982e7417fb	157,750,001	10.5167%	
4	 0x5dec7196325ef0182c640af352a4e342a7221358	17,503,821.71660256488227883	1.1669%	
5	 0x7c9014958a205975b20cca42b50f38e9dea89a2c	10,312,500	0.6875%	
6	 0x238284a4f8838a09d6b79e6e107d0e3969512cb9	8,437,500	0.5625%	
7	 0xc0d9b5d1dc4d5cf89b3c83598b2e91cb0db9a149	3,762,500	0.2508%	
8	 PancakeSwap V2: WARS-BUSD 2	3,281,486.020120859902424436	0.2188%	
9	0xbe551dd71cfd5e78157840dc87bd70b7204a20f	2,142,857.1	0.1429%	
10	0x4a5bb1c9347a0d4f7e06a29239162f03647d9232	1,752,857.078599999998917338	0.1169%	

source:<https://bscscan.com/>

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SECURITY ISSUES

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No high severity issues found.

Low Severity Issues

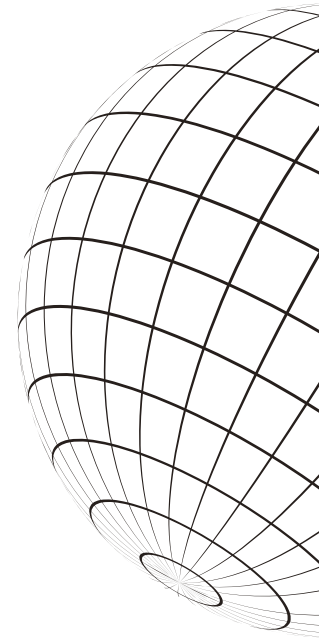
Too many digits

It's more sufficient to use scientific notation and ether units suffix to write the numbers instead of multiplying and powering

Contracts: WARSToken

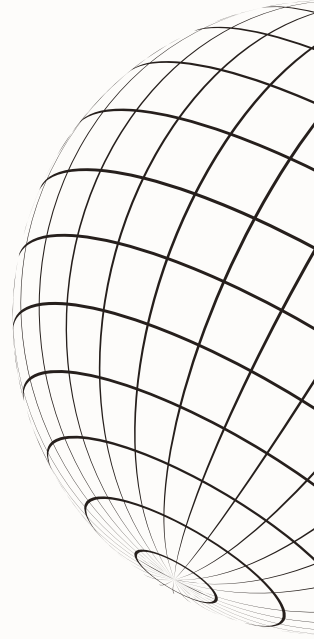
Function: constructor

Recommendation: Please use scientific notation and ether suffix for numbers (ie.: 15e8 ether)



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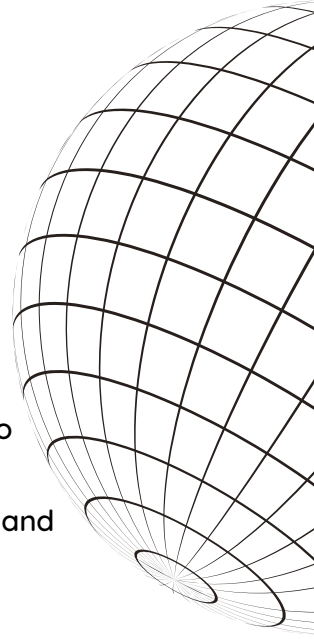
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TOKEN LOGO



SECURITY ASSESMENT CONCLUSION

Smart contracts contain owner privileges!

Motech Audit note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.



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