



# Smart Contract Security Audit Report

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## Ethverse Token

December 2022

Security Status



[www.hacksafe.io](https://www.hacksafe.io)



# Audit Details



## Audited project

Ethverse Token



## Deployer address

0x463fe3165396cba43dd4c152f3c877525f0357c1



## Client contacts

Ethverse Token Team



## Blockchain

Ethereum



## Website

Not provided



# 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.



# Procedure

## **Step 1 - In-Depth Manual Review**

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

## **Step 2 - Automated Testing**

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

## **Step 3 – Leadership Review**

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

## **Step 4 - Resolution of Issues**

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

## **Step 5 - Published Audit Report**

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

# Background

HackSafe was commissioned by Ethverse Token to perform an audit of smart contracts:

- <https://etherscan.io/token/0xEeEeeeeEe2aF8D0e1940679860398308e0eF24d6#code>

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 understood 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.

# Contract Details

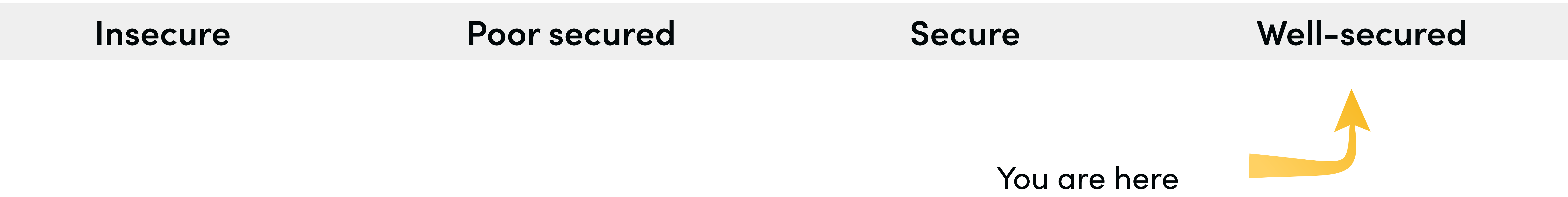
## Token contract details for 27.12.2022

Token Type	: DEFI
Contract name	: ETHVerse
Contract address	: 0xEeEeeeeEe2aF8D0e1940679860398308e0eF24d6
Total supply	: 36,968,268.009159493206803063
Token ticker	: ETHV
Decimals	: 18
Token Holders	: 2,594
Transactions count	: 42,084
Compiler version	: v0.6.6+commit.6c089d02
Contract deployer address	: 0x463fe3165396cba43dd4c152f3c877525f0357c1
Owner address	: No owner



# Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are **“Well Secure”**. This token contract does not contain owner control, which do make it fully decentralized.



We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 1 low.

# Ethverse Token Token Distribution

 The top 100 holders collectively own 93.83% (34,688,803.65 Tokens) of Ethverse Token

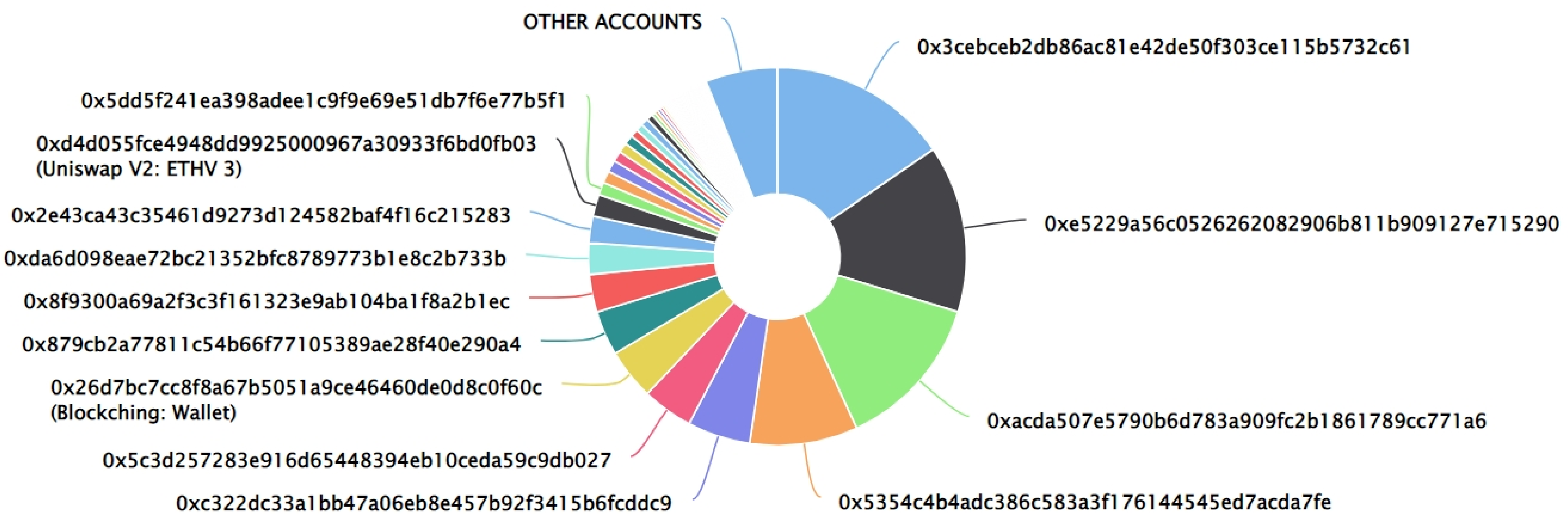
 Token Total Supply: 36,968,268.01 Token

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Total Token Holders: 2,594


Ethverse Token Top 100 Token Holders

Source: Etherscan.io



## Ethverse Token Top 20 Token Holders

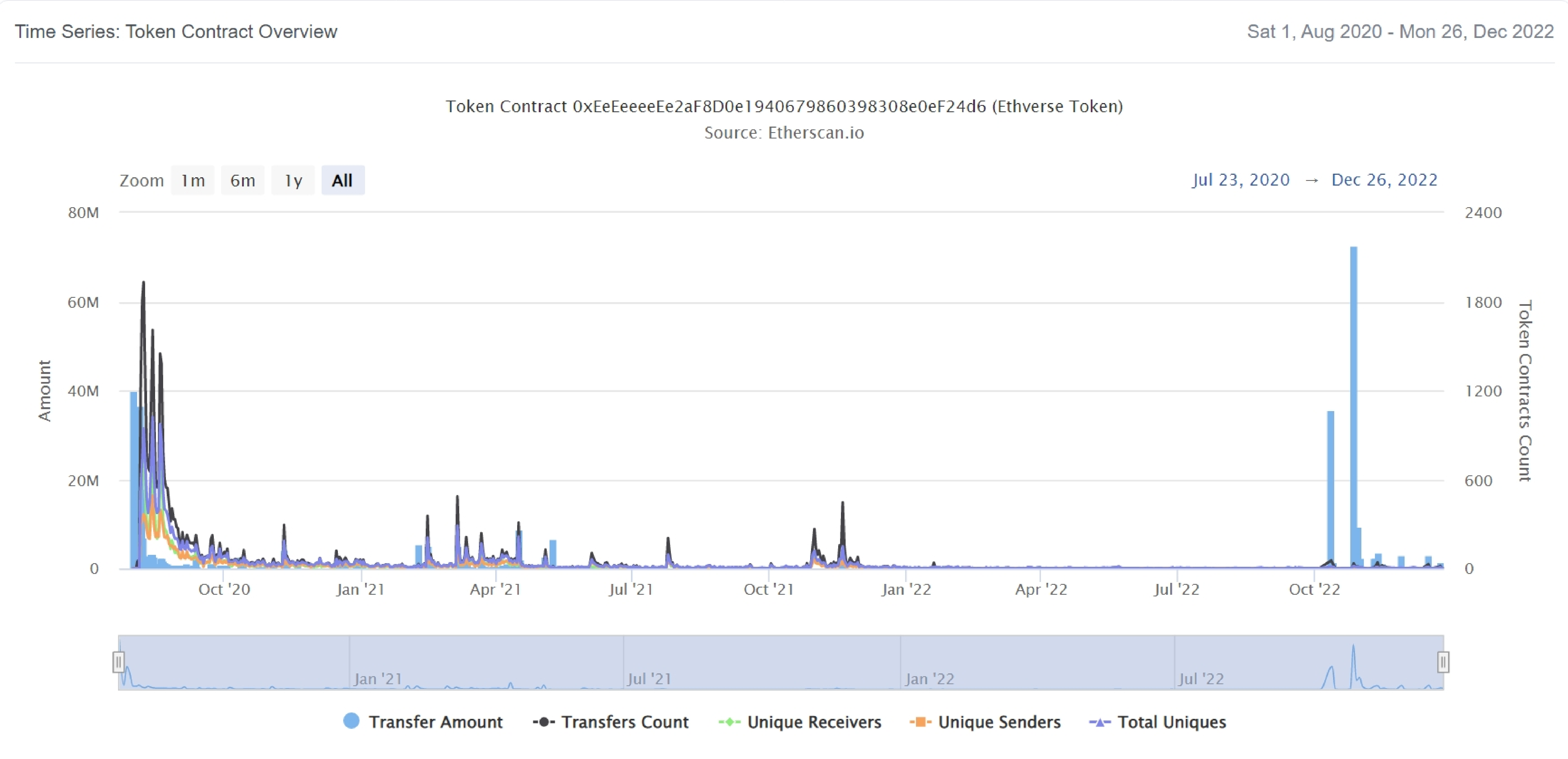
(A total of 34,688,803.65 tokens held by the top 100 accounts from the total supply of 36,968,268.01 token)

Rank	Address	Quantity (Token)	Percentage
1	0x3cebceb2db86ac81e42de50f303ce115b5732c61	5,700,000	15.4186%
2	0xe5229a56c0526262082906b811b909127e715290	5,294,685.360775425850905129	14.3222%
3	0xacda507e5790b6d783a909fc2b1861789cc771a6	4,940,915.209008873546290917	13.3653%
4	0x5354c4b4adc386c583a3f176144545ed7acda7fe	3,418,677.220253712259672952	9.2476%
5	0xc322dc33a1bb47a06eb8e457b92f3415b6fcddc9	1,996,516.557819462228518441	5.4006%
6	0x5c3d257283e916d65448394eb10ceda59c9db027	1,607,599.551417562254953377	4.3486%
7	Blockching: Wallet	1,605,986.06	4.3442%
8	0x879cb2a77811c54b66f77105389ae28f40e290a4	1,411,112.492526497604726179	3.8171%
9	0x8f9300a69a2f3c3f161323e9ab104ba1f8a2b1ec	1,185,360.2963470566494058	3.2064%
10	0xda6d098eae72bc21352bfc8789773b1e8c2b733b	1,001,152.95845929896375947	2.7081%
11	0x2e43ca43c35461d9273d124582baf4f16c215283	840,000	2.2722%
12	 Uniswap V2: ETHV 3	689,333.697087903814829679	1.8647%
13	0x5dd5f241ea398adee1c9f9e69e51db7f6e77b5f1	401,000	1.0847%
14	0x185b02a2357a3e4d64aa4dd7dc16816ae0146d32	385,570.178198416642794716	1.0430%
15	0xf8ac3d272d67aa4accf0207f5503611245388282	366,826.984559154381037083	0.9923%
16	0xca46f5363efee636e677e0c7987ae4e3b3ae03c4	337,999.268933652898297614	0.9143%
17	0x4b37ac684755fd1e5579ddcc102acde0b4b19204	308,675.71014192958074512	0.8350%
18	Hotbit 3	297,692.911335584971313094	0.8053%
19	0x356daeac1b0cf5eb5d3a88a74c778e693b987df7	247,679.932395000769279827	0.6700%
20	0x729a1781e998ded2e4aac812022497bda1aa2b55	235,714.993539224178821668	0.6376%



# Ethverse Token Token Distribution

## Ethverse Token Contract Overview



# Contract functions details

## **+ [Int]** IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom

## **+ [Lib]** SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

## **+ Context**

- [Int] \_msgSender
- [Int] \_msgData

## **+ ERC20 (Context, IERC20)**

- [Pub] <constructor>
- [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



# Contract functions details

`-[Int] _setupDecimals`  
`-[Int] _beforeTokenTransfer`

+ETHVerse (ERC20)

`-[Pub] <constructor>`  
`-[Ext] burn`

`($)` = payable function

`#` = non-constant function

# Issues Checking Status

No.	Title	Status
1.	Compiler error	Passed
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Low issue



# Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

# Security Issues

## ✔ Critical Severity Issues

No critical severity issue found.

## ✔ High Severity Issues

No high severity issue found.

## ✔ Medium Severity Issues

No medium severity issue found.

## ✔ Low Severity Issues

One low severity issue found.

### 1. Old compiler version

- **Description**

Contract has been deployed using too old solidity version.

- **Recommendation**

It is advisable to deploy contract using any of the latest version of solidity.



# Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe 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.