

# MADHOUSE TOKEN AUDIT REPORT

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### **SUMMARY**

This report has been prepared for Madhouse to discover issues and vulnerabilities in the source code of the Madhouse 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 Test net 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.



### **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. White 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.



### **BACKGROUND**

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

https://bscscan.com/address/0x8c4885867d30f03ad04388cee01c65d11d192e61
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.



### **AUDIT DETAILS**



### **AUDITED PROJECT**

Madhouse



### **DEPLOYER ADDRESS**

0x03B32AbAB0d1EFd05CD707644cC0a0d687AfCD8F



### **CLIENT CONTACTS:**

Madhouse team



### **BLOCKCHAIN**

Binance Smart Chain Project



#### **WEBSITE:**

https://www.madhousetoken.com/



## **CONTRACT DETAILS**

### **Token contract details for Sep-02-2021**

Contract name	Madhouse
Contract address	0x8c4885867D30F03AD04388cee01C65D11D192e61
Total supply	997,378,118.861766 MHTC
Token ticker	Madhouse Token (MHTC)
Decimals	9
Token holders	678
Transactions count	1,789
Top 100 holders dominance	0.967619%
Contract deployer address	0x03B32AbAB0d1EFd05CD707644cC0a0d687AfCD8F
Contract's current owner addres	ss 0x8c4885867d30f03ad04388cee01c65d11d192e61

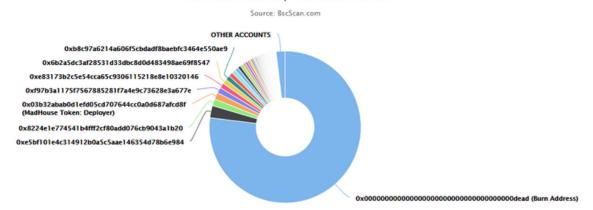


### **MADHOUSE TOKEN DISTRIBUTION**

The top 100 holders collectively own 98.08% (978,192,408.01 Tokens) of Madhouse Token

Token Total Supply: 997,375,711.98 Token | Total Token Holders: 689

#### Madhouse Token Top 100 Token Holders



(A total of 978,192,408.01 tokens held by the top 100 accounts from the total supply of 997,375,711.98 token)

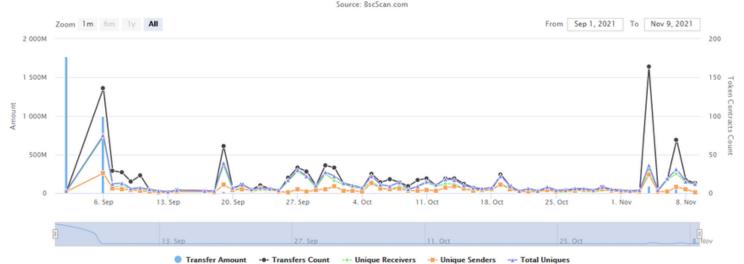
# MADHOUSE TOKEN CONTRACT INTERACTION DETAILS

Time Series: Token Contract Overview

Thu 2, Sept 2021 - Tue 9, Nov 2021

Token Contract 0x8c4885867d30f03ad04388cee01c65d11d192e61 (Madhouse Token)

Source: BscScan.com





## **TOP 10 TOKEN HOLDERS**

Rank	Address	Quantity	Percentage	Analytics
1	Burn Address	767,729,203.567511126	76.9747%	<u>~</u>
2	0xe5bf101e4c314912b0a5c5aae146354d78b6e984	25,730,776.34967675	2.5798%	<u>~</u>
3	0x8224e1e774541b4fff2cf80add076cb9043a1b20	14,629,429.472049327	1.4668%	<u>~</u>
4	MadHouse Token: Deployer	14,479,672.968421632	1.4518%	<u>₩</u>
5	0xf97b3a1175f7567885281f7a4e9c73628e3a677e	12,176,600.493998868	1.2209%	<u>~</u>
6	0xe83173b2c5e54cca65c9306115218e8e10320146	10,770,356.567833981	1.0799%	<u>~</u>
7	0x6b2a5dc3af28531d33dbc8d0d483498ae69f8547	10,089,424.908254211	1.0116%	<u>™</u>
8	0xb8c97a6214a606f5cbdadf8baebfc3464e550ae9	9,809,151.832457206	0.9835%	<u>~</u>
9	0x6ce50c6752c1461feef3cb92e209c794622372de	9,401,157.807814262	0.9426%	<u>~</u>
10	0x8a99fe9092c02c7077d27abc9de4dab85bfd4059	8,285,201.266548698	0.8307%	<u>~</u>

source:https://bscscan.com/



## **SECURITY ISSUES**

- Critical Severity Issues

  No high severity issues found.
- High Severity Issues

  No high severity issues found.
- Medium Severity Issues

  No high severity issues found.



No events on fees changes
 Changing fees should emit events so that could be easily tracked offchain.

**Recommendation**: Please consider emitting events on changing fees.

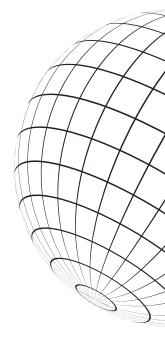
Fixed before the second review.

2. Unused state variable Contract MadhouseToken has a state variable uniswapV2Router which is never read in the code. Only writing is done in constructor and changeRouterVersion but it's never accessed for the reading which means it is just burning gas.

Recommendation: Please consider removing the uniswapV2Router state variable.

Fixed before the second review.





## **SECURITY ISSUES**

3. Unused private method

Contract MadhouseToken has a private method transferToAddressETH which is never called in the code.

Recommendation: Please consider removing this method.

Fixed before the second review.

4. Contracts that lock Ether

Contract MadhouseToken has a payable function but without a withdrawal capacity.

Recommendation: Remove the payable attribute or add a withdraw function.

Fixed before the second review.

5. State variables that could be declared constant

Constant state variables should be declared constant to save gas.

**Recommendation**: Add the constant attributes to state variables that never change.

Fixed before the second review.

6. Public functions that could be declared external public functions that are never called by the contract should be declared external to save gas.

**Recommendation**: Use the external attribute for functions never called from the contract.

Fixed before the second review.



# **TOKEN LOGO**







### **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.

