

MetaBomb Token
Smart Contract
Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
MetaBomb Token	МТВ	Binance Smart Chain	

Addresses

Contract address	0x2bad52989afc714c653da8e5c47bf794a8f7b11d	
Contract deployer address	0x40127388aE4e1f03475125cc3Cbf728161F7Dd6C	

Project Website

https://metabomb.io/

Codebase

https://bscscan.com/address/0x2bad52989afc714c653da8e5c47bf794a8f7b11d#code



SUMMARY

MetaBomb is coming closer to the final production stage and with the ideas of GameFi 2.0 in mind, MetaBomb will be the game where players are immersed in the true potential of a Metaverse. In MetaBomb, players can throw themselves into countless fun and intense matches with others, or work with each other to defeat the formidable boss that guards immense treasures that could change any player's prestige. The House and Hotel system will accommodate any players with the top services to regain their strength for the next battle. Meanwhile, MetaBombers will show their bargaining skills in the Marketplace. You can buy anything that is helpful for your adventure there, but are you willing to pay the price? Remembers, sharks, cutthroats, and thugs are there to snatch your hard-earned money.

Contract Summary

Documentation Quality

MetaBomb Token provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

 Standard solidity basecode and rules are already followed by MetaBomb Token with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

• SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 10, 37, 115, 208, 293, 323, 708 and 747.



CONCLUSION

We have audited the MetaBomb Token project released on April 2022 to discover issues and identify potential security vulnerabilities in MetaBomb Token Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the MetaBomb Token smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found some floating pragma is set. The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.



AUDIT RESULT

Article	Category	Description	Result	
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously. PASS		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	PASS	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	it PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS	
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	. PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS	



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.		
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.		
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	nould not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.		
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.		
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS	
Shadowing State Variable	SWC-119	State variables should not be shadowed.		
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.		
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	PASS	
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.		
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.		
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS	



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



SMART CONTRACT ANALYSIS

Started	Friday Apr 22 2022 19:26:28 GMT+0000 (Coordinated Universal Time)		
Finished	Saturday Apr 23 2022 06:24:42 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	MetaBombToken.sol		

Detected Issues

ID	Title	Severity	Status
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged



LINE 10

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MetaBombToken.sol

```
9
10 pragma solidity ^0.8.0;
11
12 /**
13 * @dev Provides information about the current execution context, including the
14
```



LINE 37

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MetaBombToken.sol

```
36
37 pragma solidity ^0.8.0;
38
39
40 /**
41
```



LINE 115

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MetaBombToken.sol

```
114

115 pragma solidity ^0.8.0;

116

117

118 /**

119
```



LINE 208

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MetaBombToken.sol

```
207
208 pragma solidity ^0.8.0;
209
210 /**
211 * @dev Interface of the ERC20 standard as defined in the EIP.
212
```



LINE 293

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MetaBombToken.sol

```
292
293 pragma solidity ^0.8.0;
294
295
296 /**
297
```



LINE 323

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MetaBombToken.sol

```
322
323 pragma solidity ^0.8.0;
324
325
326
327
```



LINE 708

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MetaBombToken.sol

```
707
708 pragma solidity ^0.8.0;
709
710
711
712
```



LINE 747

low SEVERITY

The current pragma Solidity directive is ""^0.8.4"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MetaBombToken.sol

```
746
747 pragma solidity ^0.8.4;
748
749
750
751
```



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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of 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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