

BNB Game Box
Smart Contract
Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
BNB Game Box	BNBGB	Binance Smart Chain	

Addresses

Contract address	0x63696D3D0e0C426AE83161b847d59ea3Ec83008C	
Contract deployer address	0x343b48C12Ea98f360766e1B5Ad5b086fC751Aaa3	

Project Website

https://bnbgamebox.com/

Codebase

https://bscscan.com/address/0x63696D3D0e0C426AE83161b847d59ea3Ec83008C#code



SUMMARY

Looking for the ultimate gaming gift this holiday season? Look no further than BNB Game Box! Our revolutionary new platform allows earn PC games as rewards while holding the BNBGB tokens!

Contract Summary

Documentation Quality

BNB Game Box 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 BNB Game Box with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

 SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 510, 519, 531, 552, 555, 571, 572, 593, 676, 679, 691, 695, 799, 806, 807, 809, 813 and 822.



CONCLUSION

We have audited the BNB Game Box project released on January 2023 to discover issues and identify potential security vulnerabilities in BNB Game Box 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 a satisfactory result with some low-risk issues.

The issues found in the BNB Game Box 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 are some arithmetic operation issues. It is recommended to use vetted safe math libraries for arithmetic operations consistently.



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.	ISSUE FOUND	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	use a recent version of the PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly. PASS		
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.		
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.		
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.		
Assert Violation	SWC-110	Properly functioning code should never reach a failing assert statement.		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used. PAS		
Delegate call to Untrusted Callee	SWC-112	Delegate calls 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. PASS		
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible. PASS		



Authorization through tx.origin	SWC-115	tx.origin should 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.	
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.	
Incorrect Inheritance Order	SWC-125		PASS



SMART CONTRACT ANALYSIS

Started	Wednesday Jan 11 2023 05:01:12 GMT+0000 (Coordinated Universal Time)		
Finished	Thursday Jan 12 2023 18:55:01 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	BNBGB.sol		

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged



LINE 510

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
509
510   _beforeTokenTransfer(address(0), account, amount);
511
512   _totalSupply += amount;
513   _balances[account] += amount;
514
```



LINE 519

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
518
519 function _burn(address account, uint256 amount) internal virtual {
520 require(account != address(0), "ERC20: burn from the zero address");
521
522 _beforeTokenTransfer(account, address(0), amount);
523
```



LINE 531

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
530
531 emit Transfer(account, address(0), amount);
532
533 _afterTokenTransfer(account, address(0), amount);
534 }
535
```



LINE 552

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
551  uint256 amount
552  ) internal virtual {}
553
554  function _afterTokenTransfer(
555  address from,
556
```



LINE 555

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
function _afterTokenTransfer(
f
```



LINE 571

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
570
571 uint256 public liquidityFeeOnBuy;
572 uint256 public liquidityFeeOnSell;
573
574 uint256 public marketingFeeOnBuy;
575
```



LINE 572

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
571 uint256 public liquidityFeeOnBuy;
572 uint256 public liquidityFeeOnSell;
573
574 uint256 public marketingFeeOnBuy;
575 uint256 public marketingFeeOnSell;
576
```



LINE 593

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
event ExcludeFromFees(address indexed account, bool isExcluded);

593 event MarketingWalletChanged(address marketingWallet);

594 event SwapAndLiquify(uint256 tokensSwapped,uint256 bnbReceived,uint256 tokensIntoLiqudity);

595 event SwapAndSendMarketing(uint256 tokensSwapped, uint256 bnbSend);

596 event SwapTokensAtAmountUpdated(uint256 swapTokensAtAmount);

597
```



LINE 676

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
function isExcludedFromFees(address account) public view returns(bool) {

return _isExcludedFromFees[account];

}

form

function changeMarketingWallet(address _marketingWallet) external onlyOwner{

function changeMarketingWallet(address _marketingWallet) external onlyOwner{
```



LINE 679

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
678
679 function changeMarketingWallet(address _marketingWallet) external onlyOwner{
680 require(_marketingWallet != marketingWallet, "Marketing wallet is already that address");
681 require(_marketingWallet != address(0), "Marketing wallet cannot be the zero address");
682 marketingWallet = _marketingWallet;
683
```



LINE 691

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
690 require(!tradingEnabled, "Trading already enabled.");
691 tradingEnabled = true;
692 swapEnabled = true;
693 }
694
695
```



LINE 695

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol



LINE 799

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
798 0,
799 address(0xdead),
800 block.timestamp
801 );
802
803
```



LINE 806

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
805
806 function swapAndSendMarketing(uint256 tokenAmount) private {
807 uint256 initialBalance = address(this).balance;
808
809 address[] memory path = new address[](2);
810
```



LINE 807

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
function swapAndSendMarketing(uint256 tokenAmount) private {
  uint256 initialBalance = address(this).balance;
  address[] memory path = new address[](2);
  path[0] = address(this);
  address[] memory path = new address[](2);
```



LINE 809

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
808
809 address[] memory path = new address[](2);
810 path[0] = address(this);
811 path[1] = uniswapV2Router.WETH();
812
813
```



LINE 813

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
812
813 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
814 tokenAmount,
815 0,
816 path,
817
```



LINE 822

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- BNBGB.sol

```
821
822 payable(marketingWallet).sendValue(newBalance);
823
824 emit SwapAndSendMarketing(tokenAmount, newBalance);
825 }
826
```



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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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