BabyBNBTiger

Smart Contract Audit Report

SYSFIXED

07 Mar 2023

TABLE OF CONTENTS

AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
BabyBNBTiger	BabyBNBTiger	Binance Smart Chain

Addresses

Contract address	0x5a04565ee1c90c84061ad357ae9e2f1c32d57dc6
Contract deployer address	0xf0Ba0710c9baA8c35dC90939026f061BB78Ca9AA

Project Website

https://babybnbtiger.top/

Codebase

https://bscscan.com/address/0x5a04565ee1c90c84061ad357ae9e2f1c32d57dc6#code

SUMMARY

$BabyBNBTiger is the king of beasts. He symbolizes victory and strength—a tiny tiger cub with a big heart, brave and strong, kind and ruthless. Bears fear him, and bulls love and respect him. He came to conquer scam, disappointments, and losses. Everyone who follows him will gain financial well-being and prosperity. His older brother, $BNBTiger, surprised everyone and raised an incredible 2243772% in price. Our little one will be able to repeat the success of his predecessor, so don't miss out on the golden opportunity to make a lot of X. The total number of 10.000.000.000.000.000.000.000.000 tokens, we will destroy 50%! Let's start from scratch and remove zeros. Let's make a record together!

Contract Summary

Documentation Quality

BabyBNBTiger 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 BabyBNBTiger with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 412 and 444.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 35, 47, 57, 58, 69, 81, 187, 436, 436, 436, 436, 436, 436, 437, 437, 437, 437, 437, 437, 438, 438, 438, 438, 438, 438, 439, 439, 439 and 439.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 741 and 742.

CONCLUSION

We have audited the BabyBNBTiger project released on March 2023 to discover issues and identify potential security vulnerabilities in BabyBNBTiger 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 BabyBNBTiger smart contract code issues 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, a floating pragma is set, a state variable visibility is not set, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value. 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. It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

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.	ISSUE FOUND
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.	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.	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.	ISSUE FOUND
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.	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.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
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.	PASS
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.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
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/.	PASS
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.	PASS
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.	PASS
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.	PASS
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.	PASS
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	Monday Mar 06 2023 17:02:49 GMT+0000 (Coordinated Universal Time)
Finished	Tuesday Mar 07 2023 03:52:10 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	BabyBNBTiger.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
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SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 35

low SEVERITY

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

Source File

- BabyBNBTiger.sol

Locations

```
34   function add(uint256 a, uint256 b) internal pure returns (uint256) {
35   uint256 c = a + b;
36   require(c >= a, "SafeMath: addition overflow");
37
38   return c;
39
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 47

low SEVERITY

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

Source File

- BabyBNBTiger.sol

Locations

```
46   require(b <= a, errorMessage);
47   uint256 c = a - b;
48
49   return c;
50   }
51
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 57

low SEVERITY

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

Source File

- BabyBNBTiger.sol

Locations

```
56
57   uint256 c = a * b;
58   require(c / a == b, "SafeMath: multiplication overflow");
59
60   return c;
61
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 58

low SEVERITY

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

Source File

- BabyBNBTiger.sol

Locations

```
57   uint256 c = a * b;
58   require(c / a == b, "SafeMath: multiplication overflow");
59
60   return c;
61   }
62
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 69

low SEVERITY

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

Source File

- BabyBNBTiger.sol

Locations

```
68   require(b > 0, errorMessage);
69   uint256 c = a / b;
70   // assert(a == b * c + a % b); // There is no case in which this doesn't hold
71
72   return c;
73
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 81

low SEVERITY

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

Source File

- BabyBNBTiger.sol

Locations

```
80   require(b != 0, errorMessage);
81   return a % b;
82   }
83   }
84
85
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 187

low SEVERITY

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

Source File

- BabyBNBTiger.sol

Locations

```
186   _owner = address(0);
187   _lockTime = block.timestamp + time;
188   emit OwnershipTransferred(_owner, address(0));
189   }
190
191
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 436

low SEVERITY

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

Source File

- BabyBNBTiger.sol

Locations

```
435
436   uint256 private _totalSupply = 10000000000000 * 10**6* 10**6 * 10**_decimals;
437   uint256 public _maxTxAmount = 10000000000000 * 10**6 * 10**6* 10**_decimals;
438   uint256 public _walletMax = 10000000000000 * 10**6 * 10**6* 10**_decimals;
439   uint256 private minimumTokensBeforeSwap = 10000000000000 * 10**6* 10**_decimals;
440
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 436

low SEVERITY

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Source File

- BabyBNBTiger.sol

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436   uint256 private _totalSupply = 10000000000000 * 10**6* 10**6 * 10**_decimals;
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SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

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440
441   IUniswapV2Router02 public uniswapV2Router;
442
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

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438   uint256 public _walletMax = 10000000000000 * 10**6 * 10**6* 10**_decimals;
439   uint256 private minimumTokensBeforeSwap = 10000000000000 * 10**6* 10**_decimals;
440
441   IUniswapV2Router02 public uniswapV2Router;
442   address public uniswapPair;
443
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

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439   uint256 private minimumTokensBeforeSwap = 10000000000000 * 10**6* 10**_decimals;
440
441   IUniswapV2Router02 public uniswapV2Router;
442   address public uniswapPair;
443
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

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

- BabyBNBTiger.sol

Locations

```
5   // SPDX-License-Identifier: Unlicensed
6   pragma solidity ^0.8.4;
7
8   abstract contract Context {
9
10
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 412

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "_balances" is internal. Other possible visibility settings are public and private.

Source File

- BabyBNBTiger.sol

Locations

```
411
412   mapping (address => uint256) _balances;
413   mapping (address => mapping (address => uint256)) private _allowances;
414
415   mapping (address => bool) public isExcludedFromFee;
416
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 444

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

Source File

- BabyBNBTiger.sol

Locations

```
443
444   bool inSwapAndLiquify;
445   bool public swapAndLiquifyEnabled = true;
446   bool public swapAndLiquifyByLimitOnly = false;
447   bool public checkWalletLimit = true;
448
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 741

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- BabyBNBTiger.sol

Locations

```
740   address[] memory path = new address[](2);
741   path[0] = address(this);
742   path[1] = uniswapV2Router.WETH();
743
744   _approve(address(this), address(uniswapV2Router), tokenAmount);
745
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 742

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Source File

- BabyBNBTiger.sol

Locations

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