

Smart Contract Audit

For BabyMyra

DATED: 16 January 2024



AUDIT SUMMARY

Project name - BabyMyra

Date: 16 January 2024

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: PASSED

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	3	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

A line by line code review has been performed by audit ace team.

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither:

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/address/0xbdb01abf85 073712f5d588a53bb11038a533b35b#code



Token Information

Token Address:

0x5756C358c8Bbb2b0012803FBd7aD99A7E4E47De8

Name: BabyMyra

Symbol: BabyMyra

Decimals: 9

Network: Binance smart chain

Token Type: BEP-20

Owner:

Deployer:

0xcd07a35264c87a1B9134E1C8ce62BC9319f0d428

Token Supply: 1,000,000,000

Checksum: A7265763766ad32e37ad6b85aad79321

Testnet Version:

https://testnet.bscscan.com/address/0xbdb01abf8507371 2f5d588a53bb11038a533b35b#code



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



VULNERABILITY CHECKLIST





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization/Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

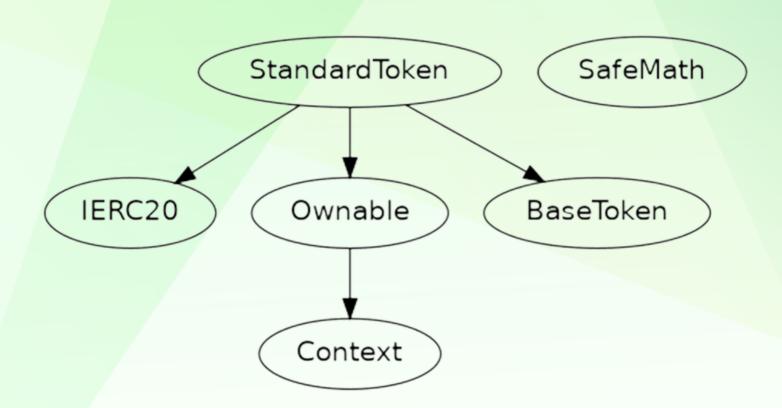
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
♦ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	3
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- The owner can renounce ownership.
- The owner can transfer ownership.
- The Owner cannot mint.
- The owner cannot blacklist addresses.
- The owner cannot set high fees.



STATIC ANALYSIS

```
StandarToken.allowance(address, address).omer (StandarToken.sol8507) shadows:

- Ommale.omer() (StandarToken.sol8100-152) (function)
StandarToken.approve(address, address, uint286).omer (StandarToken.sol8788) shadows:

- Ommale.omer() (StandarToken.sol8100-152) (function)
Reference: https://github.com/crytic/slither/wiki/petector-Documentation#local-variable-shadowing
IMF0:Detectors:
StandarToken.constructor(string.string.uint#, uint286, address, uint286).serviceFeeReceiver_ (StandarToken.sol8471) lacks a zero-check on:

- address(serviceFeeReceiver_).transfer(serviceFee_) (StandarToken.sol8471)
IMF0:Detectors:

Context_asgobata
(StandarToken.sol8110-112) is never used and should be removed

Safenth.duck(uint286, uint289) (StandarToken.sol8220-220) is never used and should be removed

Safenth.duck(uint286, uint289) (StandarToken.sol8200-239) is never used and should be removed

Safenth.duck(uint286, uint286) (StandarToken.sol81800-113) is never used and should be removed

Safenth.duck(uint286, uint286) (StandarToken.sol8210-211) is never used and should be removed

Safenth.trykdd(uint286, uint286) (StandarToken.sol8211-217) is never used and should be removed

Safenth.trykdd(uint286, uint286) (StandarToken.sol8211-227) is never used and should be removed

Safenth.trykdd(uint286, uint286) (StandarToken.sol8210-220) is never used and should be removed

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```



FUNCTIONAL TESTING

1- Approve (passed):

https://testnet.bscscan.com/tx/0x213f0aec7a669bcf9ce790b3e32 fb3df3bc443ceaae14b0181180059f9f539af

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0xf35a39abf2ce7bcdd42f3d49867 434494925e7379c2228319c9994bf2da2e864

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0xefc0cba0f27cea843a490307fbf 8016c289c264f45aa39e3bf3f161904cb526f

4- Transfer (passed):

https://testnet.bscscan.com/tx/0x39e2447980cc65f74c81aa682fb0d5fa20002b569aaeb90d607139068c4095a3



MANUAL TESTING

Centralization - Missing Zero Address

Severity: Low

Status: Open

Overview:

functions can take a zero address as a parameter (0x00000...). If a function parameter of address type is not properly validated by checking for zero addresses, there could be serious consequences for the contract's functionality.

```
constructor(
   string memory name_,
   string memory symbol_,
   uint8 decimals_,
   uint256 totalSupply_,
   address serviceFeeReceiver_,
   uint256 serviceFee_
) payable {
    _name = name_;
    _symbol = symbol_;
    _decimals = decimals_;
    _mint(owner(), totalSupply_);

emit TokenCreated(owner(), address(this), TokenType.standard,
VERSION);

payable(serviceFeeReceiver_).transfer(serviceFee_);
}
```

Suggestion:

It is suggested that the address should not be zero or dead.



MANUAL TESTING

Centralization - Remove the safe math library.

Severity: Low

Status: Open

Line: 205-416

Overview:

The Safe Math library is no longer needed for Solidity version 0.8 and above. This is because Solidity 0.8 includes checked arithmetic operations by default. All of Safe Math's methods are now inherited into Solidity programming.



MANUAL TESTING

Centralization - Local Variable Shadowing.

Severity: Low

Status: Open

Function: _approve and allowance

```
Overview:
```

```
function allowance(address owner, address spender)
  public
  view
  virtual
  override
  returns (uint256)
  return _allowances[owner][spender];
function _approve(
  address owner,
  address spender,
  uint256 amount
 ) internal virtual {
  require(owner!= address(0), "ERC20: approve from the zero
address"):
  require(spender != address(0), "ERC20: approve to the zero
address");
  _allowances[owner][spender] = amount;
  emit Approval(owner, spender, amount);
```

Suggestion:

Rename the local variable that shadows another component.



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