Cyberscope

Audit Report

HabibiInu

May 2023

Network BSC

Address 0x61EBD23c227F30dD80Dbc10876CC71814FE16791

Audited by © cyberscope

Table of Contents

Review

Contract Name	Habibilnu
Compiler Version	v0.5.0+commit.1d4f565a
Optimization	200 runs
Explorer	https://bscscan.com/address/0x61ebd23c227f30dd80dbc10876cc71814fe16791
Address	0x61ebd23c227f30dd80dbc10876cc71814fe16791
Network	BSC
Symbol	HINU
Decimals	18
Total Supply	3,000,000,000

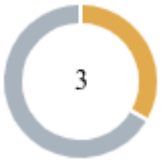
Audit Updates

Initial Audit	03 May 2023

Source Files

Filename	SHA256
Habibilnu.sol	9cf24c682193c06711c6942e3525fd66bef50deb00f882c785fbad4ee2b772e6

Findings Breakdown



Critical	0
Medium	1
Minor / Informative	2

Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	1	0	0	0
Minor / Informative	2	0	0	0

Analysis

Critical Medium Minor / Informative Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	OCTD	Transfers Contract's Tokens	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	ULTW	Transfers Liquidity to Team Wallet	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Diagnostics

Critical Medium Minor / Informative

Severity	Code	Description	Status
Medium	MTS	Misleading Total Supply	Unresolved
Minor / Informative	L04	Conformance to Solidity Naming Conventions	Unresolved
Minor / Informative	L19	Stable Compiler Version	Unresolved

MTS - Misleading Total Supply

Criticality	Medium
Location	HabibiInu.sol#L59
Status	Unresolved

Description

According to the ERC20 specification, the `totalSupply` function should return the total token supply. The contract does not return the total supply. Instead, the function returns the total supply minus the balance of the zero address. This amount is the circulating supply of the token. As a result, the amount returned from the function is misleading.

```
function totalSupply() public view returns (uint) {
    return _totalSupply  - balances[address(0)];
}
```

Recommendation

The team is advised to return the correct amount from the `totalSupply` function.

L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	HabibiInu.sol#L39
Status	Unresolved

Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
3. Use uppercase for constant variables and enums (e.g., MAX_VALUE, ERROR_CODE).
4. Use indentation to improve readability and structure.
5. Use spaces between operators and after commas.
6. Use comments to explain the purpose and behavior of the code.
7. Keep lines short (around 120 characters) to improve readability.

```
uint256 public _totalSupply
```

Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.
Find more information on the Solidity documentation
https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention.

L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	HabibiInu.sol#L1
Status	Unresolved

Description

The `^` symbol indicates that any version of Solidity that is compatible with the specified version (i.e., any version that is a higher minor or patch version) can be used to compile the contract. The version lock is a mechanism that allows the author to specify a minimum version of the Solidity compiler that must be used to compile the contract code. This is useful because it ensures that the contract will be compiled using a version of the compiler that is known to be compatible with the code.

```
pragma solidity ^0.5.0;
```

Recommendation

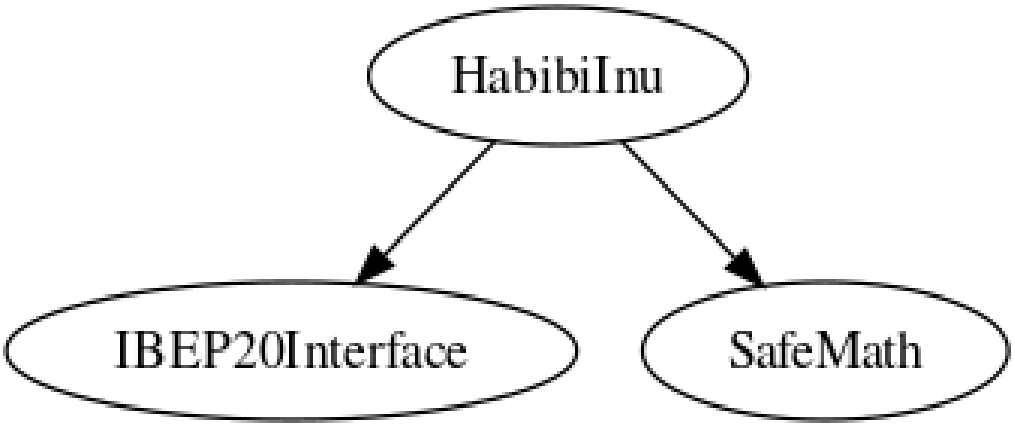
The team is advised to lock the pragma to ensure the stability of the codebase. The locked pragma version ensures that the contract will not be deployed with an unexpected version. An unexpected version may produce vulnerabilities and undiscovered bugs. The compiler should be configured to the lowest version that provides all the required functionality for the codebase. As a result, the project will be compiled in a well-tested LTS (Long Term Support) environment.

Functions Analysis

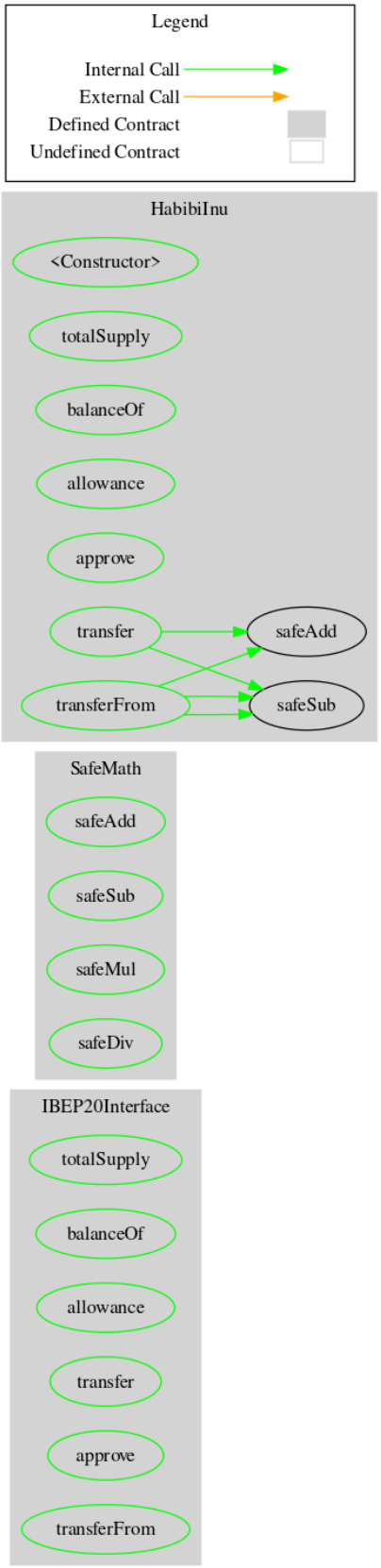
Contract	Type	Bases		
	Function Name	**Visibility**	**Mutability**	**Modifiers**
IBEP20Interface	Implementation			
	totalSupply	Public		-
	balanceOf	Public		-
	allowance	Public		-
	transfer	Public	✓	-
	approve	Public	✓	-
	transferFrom	Public	✓	-
SafeMath	Implementation			
	safeAdd	Public		-
	safeSub	Public		-
	safeMul	Public		-
	safeDiv	Public		-
HabibiInu	Implementation	IBEP20Interface, SafeMath		
		Public	✓	-
	totalSupply	Public		-

	balanceOf	Public		-
	allowance	Public		-
	approve	Public	✓	-
	transfer	Public	✓	-
	transferFrom	Public	✓	-

Inheritance Graph



Flow Graph


Legend
Internal Call
External Call
Defined Contract
Undefined Contract
HabibiInu
<Constructor>
totalSupply
balanceOf
allowance
approve
transfer
transferFrom
safeAdd
safeSub
SafeMath
safeAdd
safeSub
safeMul
safeDiv
IBEP20Interface
totalSupply
balanceOf
allowance
transfer
approve
transferFrom

Summary

HabibiInu contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. HabibiInu is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler errors or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions.

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The Cyberscope team

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