



Cyberscope

# Audit Report

## **BROOK INU**

April 2022

Type           BEP20

Network       BSC

Address       0x85a80e988b853c4e62ed8e763fa52e0f3c4c4baf

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## Contract Review

<b>Contract Name</b>	BROOK_INU
<b>Compiler Version</b>	v0.8.6+commit.11564f7e
<b>Optimization</b>	200 runs
<b>Licence</b>	None
<b>Explorer</b>	<a href="https://bscscan.com/token/0x85a80e988b853c4e62ed8e763fa52e0f3c4c4baf">https://bscscan.com/token/0x85a80e988b853c4e62ed8e763fa52e0f3c4c4baf</a>
<b>Symbol</b>	BROOK
<b>Decimals</b>	9
<b>Total Supply</b>	1,000,000,000
<b>Domain</b>	brookinu.club

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	3b943686fd06486c78681688ff698e1280cba0ca10e40b3b25bfe906531113a8

## Audit Updates

<b>Initial Audit</b>	24th April 2022
<b>Corrected</b>	

# Contract Analysis

● Critical    ● Medium    ● Minor    ● Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

## OCTD - Owner Contract Tokens Drain

Criticality	minor
Location	contract.sol#L390,396

### Description

The contract owner has the authority to claim all the balance of the contract. The owner may take advantage of it by calling the `manualswap` or `manualsend` functions.

```
function manualswap() external {
    require(_msgSender() == _developmentAddress || _msgSender() ==
_marketingAddress || _msgSender() == owner());
    uint256 contractBalance = balanceOf(address(this));
    swapTokensForEth(contractBalance);
}

function manualsend() external {
    require(_msgSender() == _developmentAddress || _msgSender() ==
_marketingAddress || _msgSender() == owner());
    uint256 contractETHBalance = address(this).balance;
    sendETHToFee(contractETHBalance);
}
```

### Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

# Contract Diagnostics

● Critical    ● Medium    ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L02	State Variables could be Declared Constant
●	L04	Conformance to Solidity Naming Conventions
●	L05	Unused State Variable

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L123,129,197,201,205,209,217,222,226,231,313,319,326,400,411,415

### Description

Public functions that are never called by the contract should be declared external to save gas.

```
excludeMultipleAccountsFromFees
toggleSwap
setFee
setNewMarketingAddress
setNewDevAddress
rescueForeignTokens
transferFrom
approve
allowance
...
```

### Recommendation

Use the external attribute for functions never called from the contract.



## L02 - State Variables could be Declared Constant

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L106

### Description

Constant state variables should be declared constant to save gas.

```
_previousOwner
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L47,136,312,318,325,313,411,145,158,159,160

### Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow \_ at the beginning of the mixed\_case match for private variables and unused parameters.

```
_decimals  
_symbol  
_name  
_tTotal  
_swapEnabled  
_amount  
_to  
_tokenAddr  
marketingAddressUpdated  
...
```

### Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

## L05 - Unused State Variable

**Criticality**

minor

**Location**

contract.sol#L106,140

### Description

There are segments that contain unused state variables.

```
_tOwned  
_previousOwner
```

### Recommendation

Remove unused state variables.

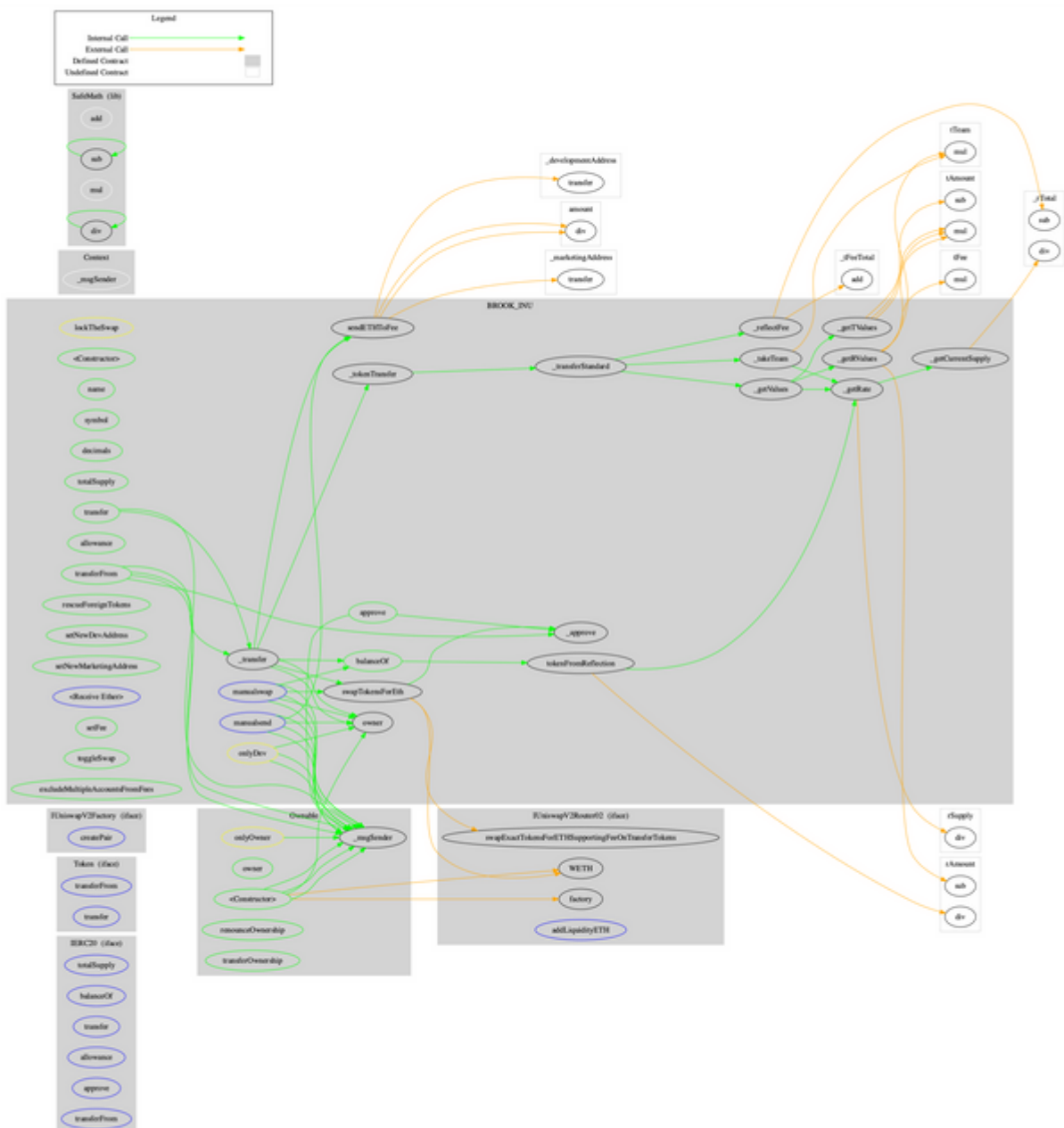
# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>Token</b>	Interface			
	transferFrom	External	✓	-
	transfer	External	✓	-
<b>IUniswapV2Factory</b>	Interface			
	createPair	External	✓	-
<b>IUniswapV2Router02</b>	Interface			
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
<b>Context</b>	Implementation			
	_msgSender	Internal		
<b>SafeMath</b>	Library			
	add	Internal		
	sub	Internal		

	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
<b>BROOK_INU</b>	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	tokenFromReflection	Private		
	_approve	Private	✓	
	_transfer	Private	✓	
	swapTokensForEth	Private	✓	lockTheSwap
	sendETHToFee	Private	✓	
	_tokenTransfer	Private	✓	
	rescueForeignTokens	Public	✓	onlyDev
	setNewDevAddress	Public	✓	onlyDev
	setNewMarketingAddress	Public	✓	onlyDev
	_transferStandard	Private	✓	
	_takeTeam	Private	✓	
	_reflectFee	Private	✓	

	<Receive Ether>	External	Payable	-
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	manualswap	External	✓	-
	manualsend	External	✓	-
	setFee	Public	✓	onlyDev
	toggleSwap	Public	✓	onlyDev
	excludeMultipleAccountsFromFees	Public	✓	onlyOwner

# Contract Flow



## Domain Info

<b>Domain Name</b>	brookinu.club
<b>Registry Domain ID</b>	DC96DD0707B4A42AFB9D339D3CB0FA68E-GDREG
<b>Creation Date</b>	2022-04-21T15:13:26Z
<b>Updated Date</b>	2022-04-21T15:13:27Z
<b>Registry Expiry Date</b>	2023-04-21T15:13:26Z
<b>Registrar WHOIS Server</b>	whois.godaddy.com
<b>Registrar URL</b>	whois.godaddy.com
<b>Registrar</b>	GoDaddy.com, LLC
<b>Registrar IANA ID</b>	146

The domain has been created 3 days before the creation of the audit. It will expire in 12 months.

There is no public billing information, the creator is protected by the privacy settings.



## Summary

BROOK INU is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The ownership is present and the team can manually drain the contract's balance from accumulated fees. There is also a limit of max 16% fees.

## Disclaimer

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The Cyberscope team disclaims any liability for the resulting losses.

## About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provides all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>