



Cyberscope

Audit Report

BrickInfinity

April 2023

Network BSC Testnet

Address 0x30b603bd8d795dfaa88edf37ca9f689e518f1532

Audited by © cyberscope

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Review

Contract Name	BrickInfinity
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	200 runs
Explorer	https://testnet.bscscan.com/address/0x30b603bd8d795dfaa88edf37ca9f689e518f1532
Address	0x30b603bd8d795dfaa88edf37ca9f689e518f1532
Network	BSC_TESTNET
Symbol	Brick
Decimals	18
Total Supply	1,000,000,000

Audit Updates

Initial Audit	14 Apr 2023
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Source Files

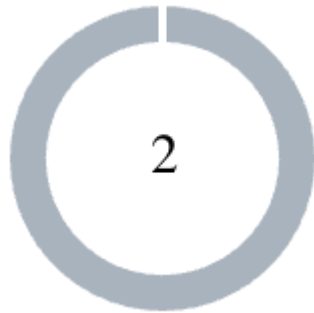
Filename	SHA256
BrickInfinity.sol	6bd06cc9f1b4eb340adfe87b9ff37e58a4ce41aba660bb5df5a2d216b80d3a2f

Notes

The contract implements the ERC20 protocol enriched with liquified functionality. There are two segments in the smart contract that may produce unnecessary behavior.

1. There is no fee exclusion. Many decentralized applications like launchpads, lockers, etc, require the transfers to be excluded from fees. As a result, the token will not be able to operate with them.
2. The contract assumes that the liquidity has been added if it identifies a transfer to the pair address. If a malicious user sends 1 token to the pair address, then the contract will wrongly assume that the liquidity has been added.

Findings Breakdown



● Critical	0
● Medium	0
● Minor / Informative	2

Severity	Unresolved	Acknowledged	Resolved	Other
● Critical	0	0	0	0
● Medium	0	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
●	L07	Missing Events Arithmetic	Unresolved
●	L22	Potential Locked Ether	Unresolved

L07 - Missing Events Arithmetic

Criticality	Minor / Informative
Location	BrickInfinity.sol#L954
Status	Unresolved

Description

Events are a way to record and log information about changes or actions that occur within a contract. They are often used to notify external parties or clients about events that have occurred within the contract, such as the transfer of tokens or the completion of a task.

It's important to carefully design and implement the events in a contract, and to ensure that all required events are included. It's also a good idea to test the contract to ensure that all events are being properly triggered and logged.

```
marketingTaxPercentage = _marketingTaxPercentage
```

Recommendation

By including all required events in the contract and thoroughly testing the contract's functionality, the contract ensures that it performs as intended and does not have any missing events that could cause issues with its arithmetic.

L22 - Potential Locked Ether

Criticality	Minor / Informative
Location	BrickInfinity.sol#L1030
Status	Unresolved

Description

The contract contains Ether that has been placed into a Solidity contract and is unable to be transferred. Thus, it is impossible to access the locked Ether. This may produce a financial loss for the users that have called the payable method.

```
receive() external payable {}
```

Recommendation

The team is advised to either remove the payable method or add a withdraw functionality. it is important to carefully consider the risks and potential issues associated with locked Ether.

Functions Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IPancakeswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	getPair	External		-
	allPairs	External		-
	setFeeToSetter	External	✓	-
IPancakeswapV2Pair	Interface			
	symbol	External		-
	name	External		-
	decimals	External		-
	balanceOf	External		-
	totalSupply	External		-
	allowance	External		-
	approve	External	✓	-

	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IPancakeswapV2Router01	Interface			
	factory	External		-

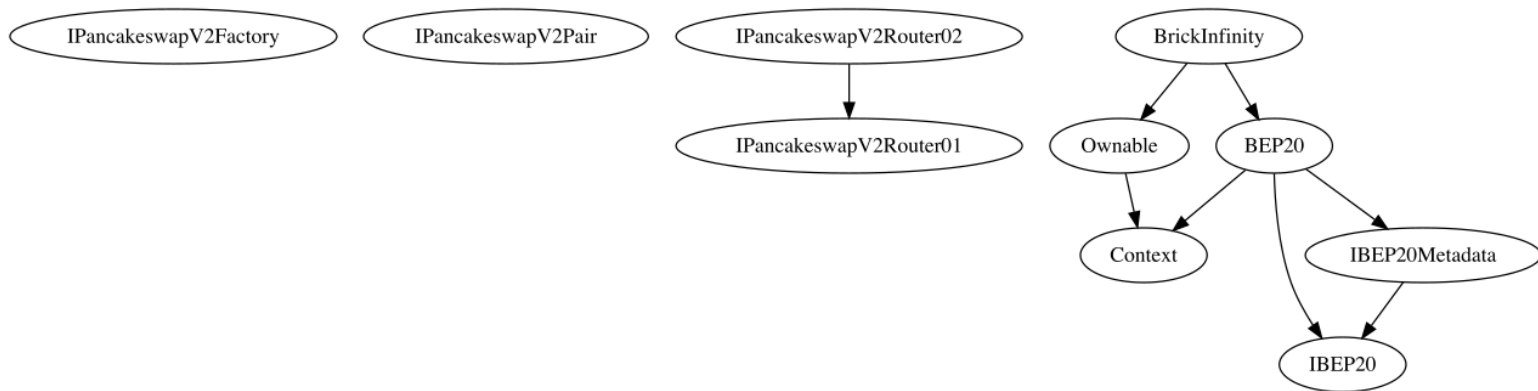
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IPancakeswapV2Router02	Interface	IPancakeswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-

	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
IBEP20	Interface			
	balanceOf	External		-
	totalSupply	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IBEP20Metadata	Interface	IBEP20		
	name	External		-
	decimals	External		-
	symbol	External		-
Context	Implementation			
	_msgSender	Internal		
Ownable	Implementation	Context		
		Public	✓	-

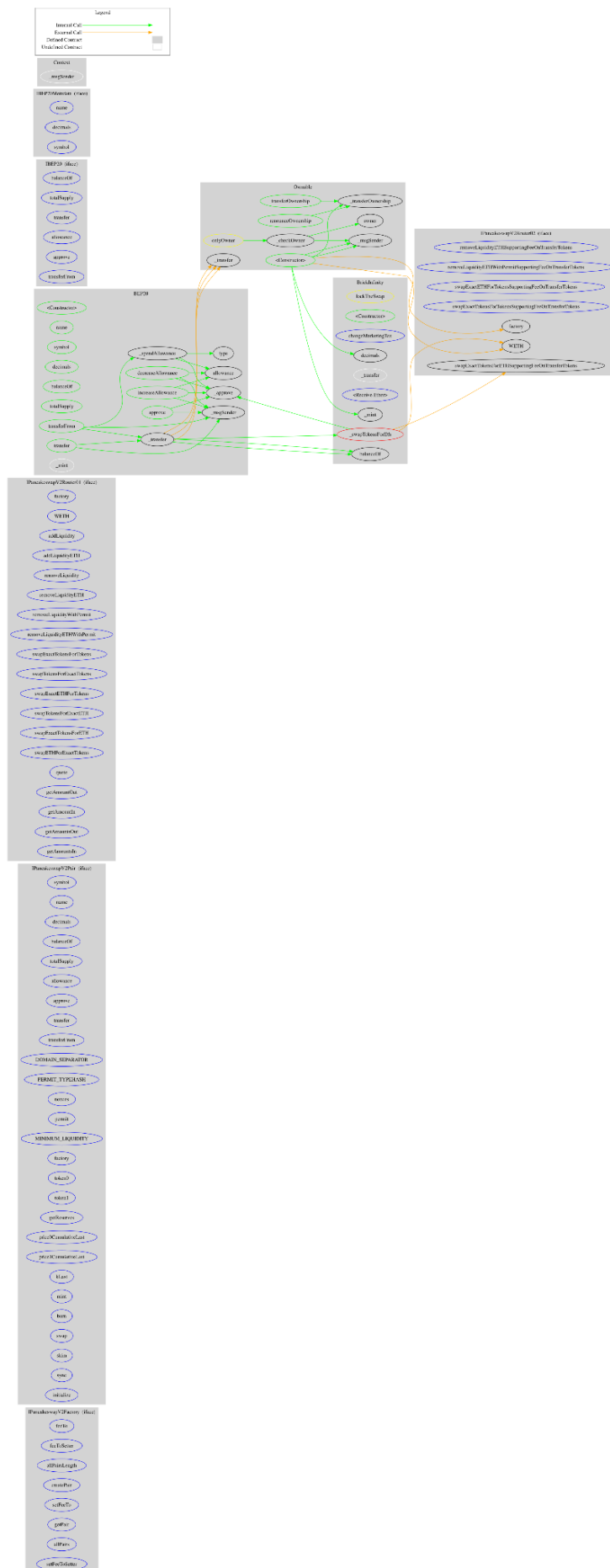
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
BEP20	Implementation	Context, IBEP20, IBEP20Meta data		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	balanceOf	Public		-
	totalSupply	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_approve	Internal	✓	

	_spendAllowance	Internal	✓	
BrickInfinity	Implementation	BEP20, Ownable		
		Public	✓	BEP20
	changeMarketingTax	External	✓	onlyOwner
	_swapTokensForEth	Private	✓	lockTheSwap
	_transfer	Internal	✓	
		External	Payable	-

Inheritance Graph



Flow Graph



Summary

BrickInfinity contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. BrickInfinity is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error 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. The fees are fixed to 5%.

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Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

<https://www.cyberscope.io>