



Cyberscope

Audit Report

BadBunny

October 2022

Type BEP20

Network BSC

Address 0x000000000e2e41d0FD6C302A8fc212eC53CcB45c

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Table of Contents

Table of Contents	1
Contract Review	3
Source Files	3
Audit Updates	3
Introduction	4
Contract Analysis	5
Contract Diagnostics	6
L02 - State Variables could be Declared Constant	7
Description	7
Recommendation	7
L04 - Conformance to Solidity Naming Conventions	8
Description	8
Recommendation	8
L07 - Missing Events Arithmetic	9
Description	9
Recommendation	9
L08 - Tautology or Contradiction	10
Description	10
Recommendation	10
L12 - Using Variables before Declaration	11
Description	11
Recommendation	11
L14 - Uninitialized Variables in Local Scope	12
Description	12
Recommendation	12
Contract Functions	13

Contract Flow	17
Domain Info	18
Summary	19
Disclaimer	20
About Cyberscope	21

Contract Review

Contract Name	BadBunnyToken
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x000000000e2e41d0FD6C302A8fc212eC53CcB45c
Symbol	BBY
Decimals	6
Total Supply	10,000,000
Domain	badbunny.top

Source Files

Filename	SHA256
contract.sol	e3336b0d7d1af3ae69acf5bd449f13612c3f0a2f1386bf95f75d5d96f087e8c0

Audit Updates

Initial Audit	29th October 2022
Corrected	

Introduction

The users has the ability to create a referral number. When the users transfer tokens, if the amount is applicable for the specific referral number, the corresponding user will receive a reward. This reward will be taxed by the transfer. The users that hold more than 100 tokens have the ability to register a referral number. If the referral number scale up, then only the initial 1000000 users will be able to receive rewards. The other users will not receive rewards even if they have reregistered.

Contract 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

Contract Diagnostics

● Critical ● Medium ● Minor / Informative

Severity	Code	Description	Status
●	L02	State Variables could be Declared Constant	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved
●	L07	Missing Events Arithmetic	Unresolved
●	L08	Tautology or Contradiction	Unresolved
●	L12	Using Variables before Declaration	Unresolved
●	L14	Uninitialized Variables in Local Scope	Unresolved

L02 - State Variables could be Declared Constant

Criticality	minor / informative
Location	contract.sol#L412,437,413,411,410
Status	Unresolved

Description

Constant state variables should be declared constant to save gas.

```
decimals
USDT
totalSupply
symbol
name
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L423,603,617,667,623,97,114,629,96,417,674,717,643,424,415,454,437,701,434,414,416,157,436,735,713
Status	Unresolved

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.

```
RefToNumber
_from
_amount
_mefee
_spender
PERMIT_TYPEHASH
MINIMUM_LIQUIDITY
_subtractedValue
_addedValue
...
```

Recommendation

Follow the Solidity naming convention.

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

L07 - Missing Events Arithmetic

Criticality	minor / informative
Location	contract.sol#L667,713,674
Status	Unresolved

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
BuySuperiorFee = _superiorfee  
numTokensSellToAddToLiquidity = _numTokensSellToAddToLiquidity  
SellFee = _SellFee
```

Recommendation

Emit an event for critical parameter changes.

L08 - Tautology or Contradiction

Criticality	minor / informative
Location	contract.sol#L674
Status	Unresolved

Description

Detects expressions that are tautologies or contradictions. For instance, an uint variable will always be greater than or equal to zero.

```
require(bool)(_SellFee >= 0 && _SellFee <= 10)
```

Recommendation

Fix the incorrect comparison by changing the value type or the comparison.

L12 - Using Variables before Declaration

Criticality	minor / informative
Location	contract.sol#L532,533
Status	Unresolved

Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

```
success
success1
```

Recommendation

The variables should be declared before any usage of them.

L14 - Uninitialized Variables in Local Scope

Criticality	minor / informative
Location	contract.sol#L571,570
Status	Unresolved

Description

These are variables that are defined in the local scope and are not initialized.

```
success1_scope_9  
success_scope_8
```

Recommendation

All the local scoped variables should be initialized.

Contract Functions

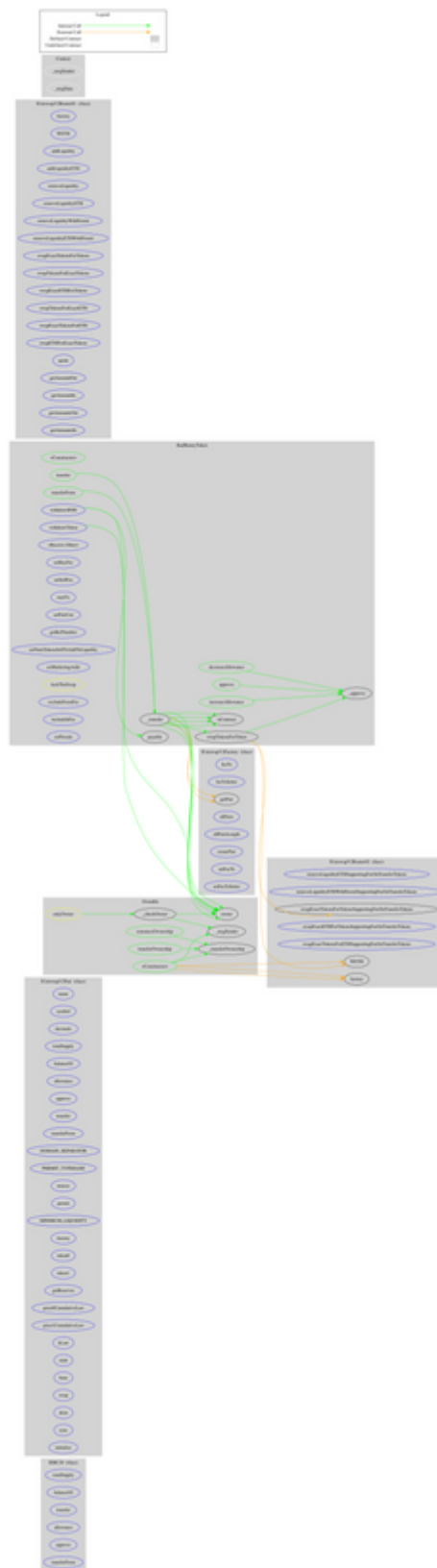
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IUniswapV2Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	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	✓	-
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Router01	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		-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
BadBunnyToken	Implementation	Ownable		
	<Constructor>	Public	✓	-
	transfer	Public	✓	-
	_transfer	Private	✓	
	transferFrom	Public	✓	-
	_approve	Internal	✓	

	approve	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	withdrawBNB	External	✓	onlyOwner
	withdrawToken	External	✓	onlyOwner
	<Receive Ether>	External	Payable	-
	isContract	Private		
	setBuyFee	External	✓	onlyOwner
	setSellFee	External	✓	onlyOwner
	startTx	External	✓	onlyOwner
	swapTokensForToken	Private	✓	lockTheSwap
	setPairCon	External	✓	onlyOwner
	getRefNumber	External	✓	-
	setNumTokensSellToAddToLiquidity	External	✓	onlyOwner
	setMarketingAddr	External	✓	onlyOwner
	excludeFromFee	External	✓	onlyOwner
	includeInFee	External	✓	onlyOwner
	setPresale	External	✓	onlyOwner

Contract Flow



Domain Info

Domain Name	badbunny.top
Registry Domain ID	D20221027G10001G_90245727-top
Creation Date	2022-10-27T13:49:10Z
Updated Date	2022-10-27T14:23:21Z
Registry Expiry Date	2023-10-27T13:49:10Z
Registrar WHOIS Server	whois.namesilo.com
Registrar URL	https://www.namesilo.com
Registrar	NameSilo,LLC
Registrar IANA ID	1479

The domain was created 1 day 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

BadBunny 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. There is also a limit of max 10% fees.

Disclaimer

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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 provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>