



Cyberscope

Audit Report

BadBunny

October 2022

Type BEP20

Network BSC

Address 0x000000000e2e41d0FD6C302A8fc212eC53CcB45c

Audited by © cyberscope

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

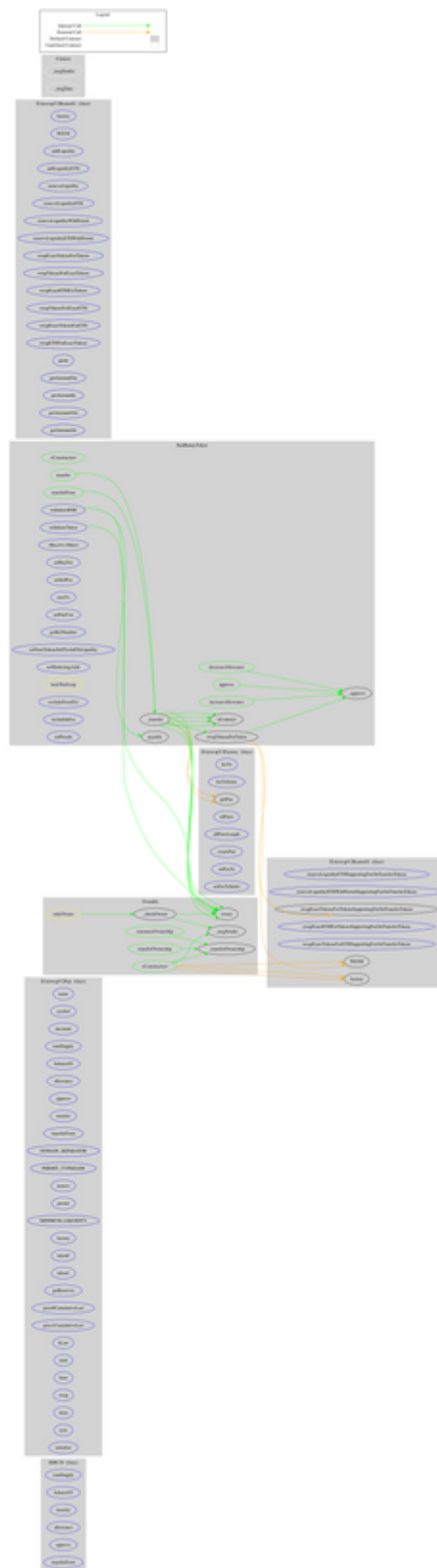
| Contract | Type | Bases | | |
|----------------|----------------------|------------|------------|-----------|
| | Function Name | Visibility | Mutability | Modifiers |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | 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

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

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



The Cyberscope team

<https://www.cyberscope.io>