



# Audit Report

## **Bunny Girl Universe**

January 2022

|            |                                            |
|------------|--------------------------------------------|
| Type       | BEP20                                      |
| Network    | BSC                                        |
| Address    | 0x8Ec6Df71D4d98c5oFf5214E4f680920FeDF32A43 |
| Audited by | © coinscope                                |

# Table of Contents

|                                                         |           |
|---------------------------------------------------------|-----------|
| <b>Table of Contents</b>                                | <b>1</b>  |
| <b>Contract Review</b>                                  | <b>2</b>  |
| <b>Audit Updates</b>                                    | <b>3</b>  |
| <b>Contract Analysis</b>                                | <b>4</b>  |
| <b>Contract Diagnostics</b>                             | <b>5</b>  |
| <b>L01 - Public Function could be Declared External</b> | <b>6</b>  |
| <b>Description</b>                                      | <b>6</b>  |
| <b>Recommendation</b>                                   | <b>6</b>  |
| <b>L04 - Conformance to Solidity Naming Conventions</b> | <b>7</b>  |
| <b>Description</b>                                      | <b>7</b>  |
| <b>Recommendation</b>                                   | <b>7</b>  |
| <b>L09 - Dead Code Elimination</b>                      | <b>8</b>  |
| <b>Description</b>                                      | <b>8</b>  |
| <b>Recommendation</b>                                   | <b>8</b>  |
| <b>Contract Functions</b>                               | <b>9</b>  |
| <b>Contract Flow</b>                                    | <b>13</b> |
| <b>Domain Info</b>                                      | <b>14</b> |
| <b>Summary</b>                                          | <b>15</b> |
| <b>Disclaimer</b>                                       | <b>16</b> |
| <b>About Coinscope</b>                                  | <b>17</b> |

# Contract Review

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contract Name</b>    | BunnyGirlUniverseToken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Compiler Version</b> | v0.8.4+commit.c7e474f2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Optimization</b>     | 200 runs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Licence</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Explorer</b>         | <a href="https://bscscan.com/token/0x8Ec6Df71D4d98c5aFf5214E4f680920FeDF32A43">https://bscscan.com/token/0x8Ec6Df71D4d98c5aFf5214E4f680920FeDF32A43</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Symbol</b>           | BNGT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Decimals</b>         | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Total Supply</b>     | 100,000,000,000,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | contracts/BunnyGirlUniverseToken.sol,<br>@openzeppelin/contracts/access/Ownable.sol,<br>@openzeppelin/contracts/utils/math/SafeMath.sol,<br>@openzeppelin/contracts/token/ERC20/ERC20.sol,<br>@openzeppelin/contracts/token/ERC20/utils/SafeERC20.sol,<br>@openzeppelin/contracts/token/ERC20/extensions/draft-ERC20Permit.sol,<br>@openzeppelin/contracts/utils/Context.sol,<br>@openzeppelin/contracts/token/ERC20/IERC20.sol,<br>@openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol,<br>@openzeppelin/contracts/utils/Address.sol,<br>@openzeppelin/contracts/token/ERC20/extensions/draft-IERC20Permit.sol,<br>@openzeppelin/contracts/utils/cryptography/draft-EIP712.sol,<br>@openzeppelin/contracts/utils/cryptography/ECDSA.sol,<br>@openzeppelin/contracts/utils/Counters.sol,<br>@openzeppelin/contracts/utils/Strings.sol |
| <b>Domain</b>           | bunnygirlnft.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Audit Updates

|                      |                   |
|----------------------|-------------------|
| <b>Initial Audit</b> | 25th January 2022 |
| <b>Corrected</b>     |                   |

# Contract Analysis

● Critical   
 ● Medium   
 ● Minor   
 ● Pass

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

# Contract Diagnostics

● Critical    ● Medium    ● Minor

| Severity | Code | Description                                |
|----------|------|--------------------------------------------|
| ●        | L01  | Public Function could be Declared External |
| ●        | L04  | Conformance to Solidity Naming Conventions |
| ●        | L09  | Dead Code Elimination                      |

## L01 - Public Function could be Declared External

**Criticality**

minor

**Location**

@openzeppelin/contracts/access/Ownable.sol#L65,L41,L197 and 12 more

### Description

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

```
nonces
permit
decreaseAllowance
...
```

### Recommendation

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

## L04 - Conformance to Solidity Naming Conventions

**Criticality**

minor

**Location**

@openzeppelin/contracts/token/ERC20/extensions/draft-ERC20Permit.sol#L37,L36,L35 and 6 more

### 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.

```
_TYPE_HASH  
_HASHED_VERSION  
_HASHED_NAME  
...
```

### Recommendation

Follow the Solidity naming convention.

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

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

@openzeppelin/contracts/utils/Address.sol#L15,L56,L40 and 40 more

### Description

Functions that are not used in the contract, and make the code's size bigger.

```
toString  
toHexString  
trySub  
...
```

### Recommendation

Remove unused functions.

# Contract Functions

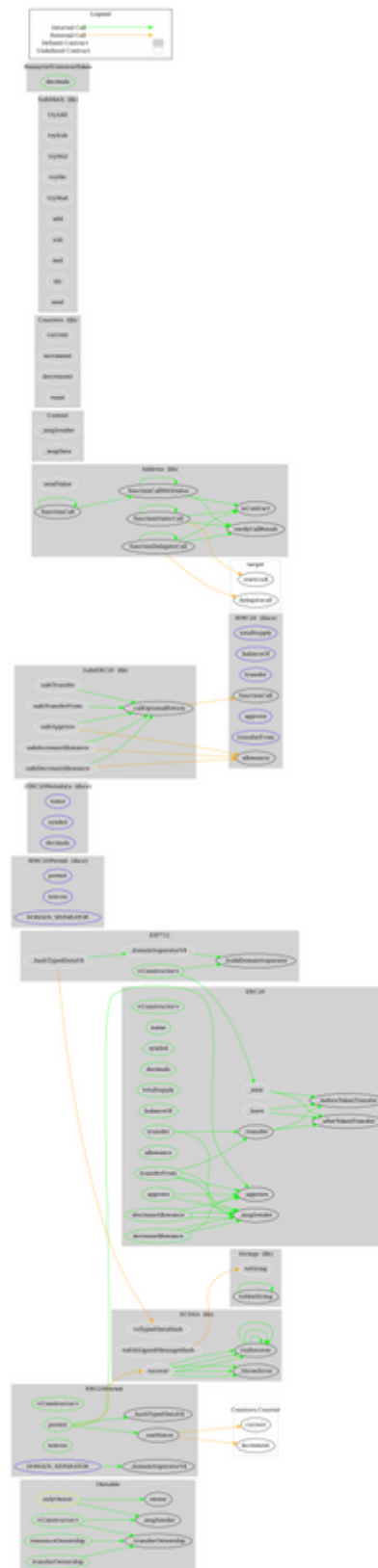
| Contract       | Type                 | Bases                                     |            |           |
|----------------|----------------------|-------------------------------------------|------------|-----------|
|                | Function Name        | Visibility                                | Mutability | Modifiers |
|                |                      |                                           |            |           |
| <b>Ownable</b> | Implementation       | Context                                   |            |           |
|                | <Constructor>        | Public                                    | ✓          | -         |
|                | owner                | Public                                    |            | -         |
|                | renounceOwnership    | Public                                    | ✓          | onlyOwner |
|                | transferOwnership    | Public                                    | ✓          | onlyOwner |
|                | _transferOwnership   | Internal                                  | ✓          |           |
|                |                      |                                           |            |           |
| <b>ERC20</b>   | Implementation       | Context,<br>IERC20,<br>IERC20Met<br>adata |            |           |
|                | <Constructor>        | Public                                    | ✓          | -         |
|                | name                 | Public                                    |            | -         |
|                | symbol               | Public                                    |            | -         |
|                | decimals             | Public                                    |            | -         |
|                | totalSupply          | Public                                    |            | -         |
|                | balanceOf            | Public                                    |            | -         |
|                | transfer             | Public                                    | ✓          | -         |
|                | allowance            | Public                                    |            | -         |
|                | approve              | Public                                    | ✓          | -         |
|                | transferFrom         | Public                                    | ✓          | -         |
|                | increaseAllowance    | Public                                    | ✓          | -         |
|                | decreaseAllowance    | Public                                    | ✓          | -         |
|                | _transfer            | Internal                                  | ✓          |           |
|                | _mint                | Internal                                  | ✓          |           |
|                | _burn                | Internal                                  | ✓          |           |
|                | _approve             | Internal                                  | ✓          |           |
|                | _beforeTokenTransfer | Internal                                  | ✓          |           |
|                | _afterTokenTransfer  | Internal                                  | ✓          |           |
|                |                      |                                           |            |           |

|                       |                       |                             |   |        |
|-----------------------|-----------------------|-----------------------------|---|--------|
| <b>ERC20Permit</b>    | Implementation        | ERC20, IERC20Permit, EIP712 |   |        |
|                       | <Constructor>         | Public                      | ✓ | EIP712 |
|                       | permit                | Public                      | ✓ | -      |
|                       | nonces                | Public                      |   | -      |
|                       | DOMAIN_SEPARATOR      | External                    |   | -      |
|                       | _useNonce             | Internal                    | ✓ |        |
|                       |                       |                             |   |        |
| <b>IERC20Permit</b>   | Interface             |                             |   |        |
|                       | permit                | External                    | ✓ | -      |
|                       | nonces                | External                    |   | -      |
|                       | DOMAIN_SEPARATOR      | External                    |   | -      |
|                       |                       |                             |   |        |
| <b>IERC20Metadata</b> | Interface             | IERC20                      |   |        |
|                       | name                  | External                    |   | -      |
|                       | symbol                | External                    |   | -      |
|                       | decimals              | External                    |   | -      |
|                       |                       |                             |   |        |
| <b>IERC20</b>         | Interface             |                             |   |        |
|                       | totalSupply           | External                    |   | -      |
|                       | balanceOf             | External                    |   | -      |
|                       | transfer              | External                    | ✓ | -      |
|                       | allowance             | External                    |   | -      |
|                       | approve               | External                    | ✓ | -      |
|                       | transferFrom          | External                    | ✓ | -      |
|                       |                       |                             |   |        |
| <b>SafeERC20</b>      | Library               |                             |   |        |
|                       | safeTransfer          | Internal                    | ✓ |        |
|                       | safeTransferFrom      | Internal                    | ✓ |        |
|                       | safeApprove           | Internal                    | ✓ |        |
|                       | safeIncreaseAllowance | Internal                    | ✓ |        |
|                       | safeDecreaseAllowance | Internal                    | ✓ |        |
|                       | _callOptionalReturn   | Private                     | ✓ |        |
|                       |                       |                             |   |        |

|                 |                       |          |   |   |
|-----------------|-----------------------|----------|---|---|
| <b>Address</b>  | Library               |          |   |   |
|                 | isContract            | Internal |   |   |
|                 | sendValue             | Internal | ✓ |   |
|                 | functionCall          | Internal | ✓ |   |
|                 | functionCall          | Internal | ✓ |   |
|                 | functionCallWithValue | Internal | ✓ |   |
|                 | functionCallWithValue | Internal | ✓ |   |
|                 | functionStaticCall    | Internal |   |   |
|                 | functionStaticCall    | Internal |   |   |
|                 | functionDelegateCall  | Internal | ✓ |   |
|                 | functionDelegateCall  | Internal | ✓ |   |
|                 | verifyCallResult      | Internal |   |   |
|                 |                       |          |   |   |
| <b>Context</b>  | Implementation        |          |   |   |
|                 | _msgSender            | Internal |   |   |
|                 | _msgData              | Internal |   |   |
|                 |                       |          |   |   |
| <b>Counters</b> | Library               |          |   |   |
|                 | current               | Internal |   |   |
|                 | increment             | Internal | ✓ |   |
|                 | decrement             | Internal | ✓ |   |
|                 | reset                 | Internal | ✓ |   |
|                 |                       |          |   |   |
| <b>EIP712</b>   | Implementation        |          |   |   |
|                 | <Constructor>         | Public   | ✓ | - |
|                 | _domainSeparatorV4    | Internal |   |   |
|                 | _buildDomainSeparator | Private  |   |   |
|                 | _hashTypedDataV4      | Internal |   |   |
|                 |                       |          |   |   |
| <b>ECDSA</b>    | Library               |          |   |   |
|                 | _throwError           | Private  |   |   |
|                 | tryRecover            | Internal |   |   |
|                 | recover               | Internal |   |   |
|                 | tryRecover            | Internal |   |   |
|                 | recover               | Internal |   |   |

|                               |                        |             |   |                      |
|-------------------------------|------------------------|-------------|---|----------------------|
|                               | tryRecover             | Internal    |   |                      |
|                               | recover                | Internal    |   |                      |
|                               | toEthSignedMessageHash | Internal    |   |                      |
|                               | toEthSignedMessageHash | Internal    |   |                      |
|                               | toTypedDataHash        | Internal    |   |                      |
|                               |                        |             |   |                      |
| <b>SafeMath</b>               | Library                |             |   |                      |
|                               | tryAdd                 | Internal    |   |                      |
|                               | trySub                 | Internal    |   |                      |
|                               | tryMul                 | Internal    |   |                      |
|                               | tryDiv                 | Internal    |   |                      |
|                               | tryMod                 | Internal    |   |                      |
|                               | add                    | Internal    |   |                      |
|                               | sub                    | Internal    |   |                      |
|                               | mul                    | Internal    |   |                      |
|                               | div                    | Internal    |   |                      |
|                               | mod                    | Internal    |   |                      |
|                               | sub                    | Internal    |   |                      |
|                               | div                    | Internal    |   |                      |
|                               | mod                    | Internal    |   |                      |
|                               |                        |             |   |                      |
| <b>Strings</b>                | Library                |             |   |                      |
|                               | toString               | Internal    |   |                      |
|                               | toHexString            | Internal    |   |                      |
|                               | toHexString            | Internal    |   |                      |
|                               |                        |             |   |                      |
| <b>BunnyGirlUniverseToken</b> | Implementation         | ERC20Permit |   |                      |
|                               | <Constructor>          | Public      | ✓ | ERC20Permit<br>ERC20 |
|                               | decimals               | Public      |   | -                    |

# Contract Flow



## Domain Info

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| <b>Domain Name</b>            |                                                                 |
| <b>Registry Domain ID</b>     | 2655839721_DOMAIN_COM-VRSN                                      |
| <b>Creation Date</b>          | 2021-11-18T15:42:28.00Z                                         |
| <b>Updated Date</b>           | 0001-01-01T00:00:00.00Z                                         |
| <b>Registry Expiry Date</b>   |                                                                 |
| <b>Registrar WHOIS Server</b> | whois.namecheap.com                                             |
| <b>Registrar URL</b>          | <a href="http://www.namecheap.com">http://www.namecheap.com</a> |
| <b>Registrar</b>              | NAMECHEAP INC                                                   |
| <b>Registrar IANA ID</b>      | 1068                                                            |

The domain has been created 2 months before the creation of the audit.

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

## Summary

Bunny Girl Universe aims to create a digital entertainment platform for collectors. The Project 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.

# 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.

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The Coinscope team disclaims any liability for the resulting losses.

## About Coinscope

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.

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



The Coinscope.co team

<https://www.coinscope.co>