



Cyberscope

# Audit Report

## **Ethereum NFT**

May 2022

Type           BEP20

Network       BSC

Address       0xA8CbA6d57D15F2cCc636054165054ec3410e76e4

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## Contract Review

|                         |                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contract Name</b>    | BEP20Token                                                                                                                                              |
| <b>Compiler Version</b> | v0.5.16+commit.9c3226ce                                                                                                                                 |
| <b>Optimization</b>     | 200 runs                                                                                                                                                |
| <b>Licence</b>          | GNU GPLv2                                                                                                                                               |
| <b>Explorer</b>         | <a href="https://bscscan.com/token/0xa8cba6d57d15f2ccc636054165054ec3410e76e4">https://bscscan.com/token/0xa8cba6d57d15f2ccc636054165054ec3410e76e4</a> |
| <b>Symbol</b>           | ENT                                                                                                                                                     |
| <b>Decimals</b>         | 18                                                                                                                                                      |
| <b>Total Supply</b>     | 210,000,000                                                                                                                                             |
| <b>Domain</b>           | ethereumnft.global                                                                                                                                      |

## Source Files

|                     |                                                                  |
|---------------------|------------------------------------------------------------------|
| <b>Filename</b>     | <b>SHA256</b>                                                    |
| <b>contract.sol</b> | 78e6c4eefc82eacbf4362c8e348a1c128763597aed898d1a0608e7024bdc6a13 |

## Audit Updates

|                      |              |
|----------------------|--------------|
| <b>Initial Audit</b> | 8th May 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                                                      |

## MT - Mint Tokens

|                    |                   |
|--------------------|-------------------|
| <b>Criticality</b> | critical          |
| <b>Location</b>    | contract.sol#L499 |

### Description

The contract owner has the authority to mint tokens. The owner may take advantage of it by calling the `mint` function. As a result the contract tokens will be highly inflated

```
function mint(uint256 amount) public onlyOwner returns (bool) {  
    _mint(_msgSender(), amount);  
    return true;  
}
```

### Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one. The owner could also renounce the contract ownership for a period of time or pass the access to the zero address.

# Contract Diagnostics

● Critical    ● Medium    ● Minor

| Severity | Code | Description                                |
|----------|------|--------------------------------------------|
| ●        | L01  | Public Function could be Declared External |
| ●        | L09  | Dead Code Elimination                      |

## L01 - Public Function could be Declared External

**Criticality**

minor

**Location**

contract.sol#L318,327,467,486,499

### Description

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

```
mint
decreaseAllowance
increaseAllowance
transferOwnership
renounceOwnership
```

### Recommendation

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

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

contract.sol#L555,590

### Description

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

```
_burnFrom  
_burn
```

### Recommendation

Remove unused functions.

# Contract Functions

| Contract | Type           | Bases      |            |           |
|----------|----------------|------------|------------|-----------|
|          | Function Name  | Visibility | Mutability | Modifiers |
| IBEP20   | Interface      |            |            |           |
|          | totalSupply    | External   |            | -         |
|          | decimals       | External   |            | -         |
|          | symbol         | External   |            | -         |
|          | name           | External   |            | -         |
|          | getOwner       | External   |            | -         |
|          | balanceOf      | External   |            | -         |
|          | transfer       | External   | ✓          | -         |
|          | allowance      | External   |            | -         |
|          | approve        | External   | ✓          | -         |
|          | transferFrom   | External   | ✓          | -         |
|          |                |            |            |           |
| Context  | Implementation |            |            |           |
|          | <Constructor>  | Internal   | ✓          |           |
|          | _msgSender     | Internal   |            |           |
|          | _msgData       | Internal   |            |           |
|          |                |            |            |           |
| SafeMath | Library        |            |            |           |
|          | add            | Internal   |            |           |
|          | sub            | Internal   |            |           |
|          | sub            | Internal   |            |           |
|          | mul            | Internal   |            |           |
|          | div            | Internal   |            |           |
|          | div            | Internal   |            |           |
|          | mod            | Internal   |            |           |
|          | mod            | Internal   |            |           |
|          |                |            |            |           |
| Ownable  | Implementation | Context    |            |           |
|          | <Constructor>  | Internal   | ✓          |           |

|                   |                    |                                |   |           |
|-------------------|--------------------|--------------------------------|---|-----------|
|                   | owner              | Public                         |   | -         |
|                   | renounceOwnership  | Public                         | ✓ | onlyOwner |
|                   | transferOwnership  | Public                         | ✓ | onlyOwner |
|                   | _transferOwnership | Internal                       | ✓ |           |
|                   |                    |                                |   |           |
| <b>BEP20Token</b> | Implementation     | Context,<br>IBEP20,<br>Ownable |   |           |
|                   | <Constructor>      | Public                         | ✓ | -         |
|                   | getOwner           | External                       |   | -         |
|                   | decimals           | External                       |   | -         |
|                   | symbol             | External                       |   | -         |
|                   | name               | External                       |   | -         |
|                   | totalSupply        | External                       |   | -         |
|                   | balanceOf          | External                       |   | -         |
|                   | transfer           | External                       | ✓ | -         |
|                   | allowance          | External                       |   | -         |
|                   | approve            | External                       | ✓ | -         |
|                   | transferFrom       | External                       | ✓ | -         |
|                   | increaseAllowance  | Public                         | ✓ | -         |
|                   | decreaseAllowance  | Public                         | ✓ | -         |
|                   | mint               | Public                         | ✓ | onlyOwner |
|                   | _transfer          | Internal                       | ✓ |           |
|                   | _mint              | Internal                       | ✓ |           |
|                   | _burn              | Internal                       | ✓ |           |
|                   | _approve           | Internal                       | ✓ |           |
|                   | _burnFrom          | Internal                       | ✓ |           |

# Contract Flow



## Domain Info

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| <b>Domain Name</b>            | ethereumnft.global                                                  |
| <b>Registry Domain ID</b>     | 65875d57a1e04a0686d6f093f56f8465-DONUTS                             |
| <b>Creation Date</b>          | 2021-12-19T19:08:43Z                                                |
| <b>Updated Date</b>           | 2021-12-24T19:09:04Z                                                |
| <b>Registry Expiry Date</b>   | 2022-12-19T19:08:43Z                                                |
| <b>Registrar WHOIS Server</b> | whois.namecheap.com                                                 |
| <b>Registrar URL</b>          | <a href="https://www.namecheap.com/">https://www.namecheap.com/</a> |
| <b>Registrar</b>              | NameCheap, Inc.                                                     |
| <b>Registrar IANA ID</b>      | 1068                                                                |

The domain has been created 5 months before the creation of the audit. It will expire in 8 months.

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

## Summary

The Smart Contract analysis reported one critical severity issue. The contract owner has the authority to mint new tokens after initial deployment. The contract tokens will be highly inflated. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

## 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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## 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>