



Smart Contract Security Audit

Audit details:

| | |
|-------------------|---|
| Audited project: | Keanu Inu |
| Deployer address: | 0xEA8071CEcF8BEF0234AFfDB508d26A96273AE7Ae |
| Client contacts: | Keanu Inu team |
| Blockchain: | Ethereum |
| Project website: | keanuinu.co |

May, 2021
TechRate

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by Keanu Inu to perform an audit of smart contracts:

- <https://etherscan.io/address/0x106552c11272420aad5d7e94f8acab9095a6c952#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Contracts details

Token contract details for 15.05.2021.

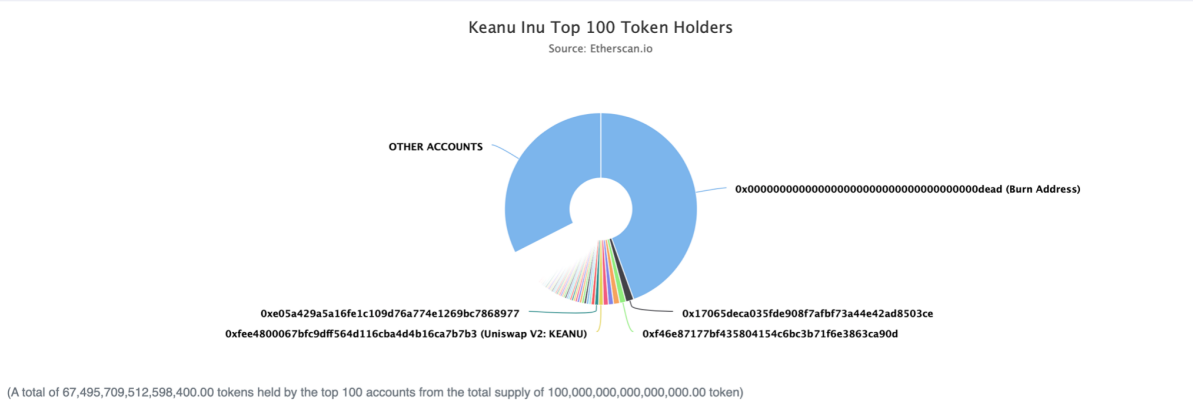
| | |
|-----------------------------------|--|
| Contract name: | Keanu Inu |
| Contract address: | 0x106552C11272420aAd5d7e94f8AcAb9095A6c952 |
| Total supply: | 100_000_000_000_000_000 |
| Token ticker: | KEANU |
| Decimals: | 9 |
| Token holders: | 11010 |
| Transactions count: | 22356 |
| Top 100 holders dominance: | 67.50% |
| Tax fee: | 2 |
| Total fees: | 12812677147858031893992098 |
| Contract deployer address: | 0xEA8071CEcF8BEF0234AFfDB508d26A96273AE7A e |
| Contract's current owner address: | 0x00 |

Keanu Inu token distribution

The top 100 holders collectively own 67.50% (67,495,709,512,598,400.00 Tokens) of Keanu Inu

Token Total Supply: 100,000,000,000,000.00 Token

Total Token Holders: 11,010



Keanu Inu contract interaction details



Keanu Inu top 10 token holders

| Rank | Address | Quantity (Token) | Percentage |
|------|--|----------------------------------|------------|
| 1 | Burn Address | 44,475,464,191,974,300.925384679 | 44.4755% |
| 2 | 0x17065deca035fde908f7afb73a44e42ad8503ce | 1,345,633,696,036,390.352532401 | 1.3456% |
| 3 | 0xf46e87177bf435804154c6bc3b71f6e3863ca90d | 1,054,440,332,510,670.314147515 | 1.0544% |
| 4 | 0x3f6224798fcc06c5710c60a60fb57e4edba6b839 | 1,022,670,004,334,970.160125313 | 1.0227% |
| 5 | 0x2b9036b82851a4f9efadbae256eb54f3add501da | 871,475,302,046,237.177765325 | 0.8715% |
| 6 | 0x1f7e1ebcc3fe68bef9b1d8fb2a6f6aae93f7e049 | 846,641,635,166,081.707308164 | 0.8466% |
| 7 | Uniswap V2: KEANU | 775,612,648,716,751.944652304 | 0.7756% |
| 8 | 0xe05a429a5a16fe1c109d76a774e1269bc7868977 | 666,001,251,532,444.91990662 | 0.6660% |
| 9 | 0x98729fa184326d6b531eb2ad9ab79af3bf42f019 | 584,421,745,112,397.102871515 | 0.5844% |
| 10 | 0x426a8cd87de6406a01519f2588aa3643c228fc7 | 414,093,488,118,617.274578708 | 0.4141% |

Contract functions details

+ Context

- [Int] _msgSender
- [Int] _msgData

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

+ [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] _functionCallWithValue #

+ Ownable (Context)

- [Int] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
 - modifiers: onlyOwner
- [Pub] transferOwnership #
 - modifiers: onlyOwner

+ Keanulnu (Context, IERC20, Ownable)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply

- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] isExcluded
- [Pub] totalFees
- [Pub] reflect #
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Ext] excludeAccount #
 - modifiers: onlyOwner
- [Ext] includeAccount #
 - modifiers: onlyOwner
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] _transferStandard #
- [Prv] _transferToExcluded #
- [Prv] _transferFromExcluded #
- [Prv] _transferBothExcluded #
- [Prv] _reflectFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply

(\$) = payable function

= non-constant function

Issues Checking Status

| № | Issue description. | Checking status |
|----|--|-----------------|
| 1 | Compiler errors. | Passed |
| 2 | Race conditions and Reentrancy. Cross-function race conditions. | Passed |
| 3 | Possible delays in data delivery. | Passed |
| 4 | Oracle calls. | Passed |
| 5 | Front running. | Passed |
| 6 | Timestamp dependence. | Passed |
| 7 | Integer Overflow and Underflow. | Passed |
| 8 | DoS with Revert. | Passed |
| 9 | DoS with block gas limit. | Low issues |
| 10 | Methods execution permissions. | Passed |
| 11 | Economy model of the contract. | Passed |
| 12 | The impact of the exchange rate on the logic. | Passed |
| 13 | Private user data leaks. | Passed |
| 14 | Malicious Event log. | Passed |
| 15 | Scoping and Declarations. | Passed |
| 16 | Uninitialized storage pointers. | Passed |
| 17 | Arithmetic accuracy. | Passed |
| 18 | Design Logic. | Passed |
| 19 | Cross-function race conditions. | Passed |
| 20 | Safe Open Zeppelin contracts implementation and usage. | Passed |
| 21 | Fallback function security. | Passed |

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

1. Out of gas

Issue:

- ❑ The function `includeAccount()` uses the loop to find and remove addresses from the `_excluded` list. Function will be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.

```
function includeAccount(address account) external onlyOwner() {
    require(!_isExcluded[account], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

- ❑ The function `_getCurrentSupply` also uses the loop for evaluating total supply. It also could be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.

```
function _getCurrentSupply() private view returns(uint256, uint256) {
    uint256 rSupply = _rTotal;
    uint256 tSupply = _tTotal;
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
        rSupply = rSupply.sub(_rOwned[_excluded[i]]);
        tSupply = tSupply.sub(_tOwned[_excluded[i]]);
    }
    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
    return (rSupply, tSupply);
}
```

Recommendation:

Use EnumerableSet instead of array or do not use long arrays.

Conclusion

Smart contracts do not contain high severity issues!

Liquidity locking details provided by the team:

<https://etherscan.io/tx/0x72c7e6011673e989e2686d9e5b20aa0883677b84afbfa973956dd2c38f5ac465>

Techrate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.