



AINU - Audit Report

S U M M A R Y



AINU Token (\$AINU) is a new Defi token on the Binance Smart Chain that is a deflationary and automatic liquidity providing protocol that pays out static rewards to holders.

We audited AINU's token contract contract at
0x2Db0d5Cb907014C67Dc201886624716fb5c71123 on the Binance Smart Chain.

Overview of the Contract:

- *The total supply of the token is set to one quintillion [1,000,000,000,000,000,000] \$AINU.*
- *No mint or burn functions are present; although users can send tokens to the burn address to act as a deflationary mechanism.*
- *20.0% of the supply was sent to the Crypto Relief Charity Address*

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- *The team retained an additional 14.21% in a different address that is said to be for marketing purposes.*
- *At the time of writing this report, 7.13% has been sent to the burn address.*
- *At the time of writing this report, 2.26% is in pancakeswap liquidity.*
- *Of that liquidity 98.6% has been locked in a Team Finance locker for 204 days.*
- *AINU's code implements and builds upon the fee-redistribution features pioneered by Reflect Finance.*
- *Users who hold tokens will automatically receive a portion of the fees from each transfer.*
- *A portion of the fee charged on transactions is stored in the contract and, once a threshold value is met, used to fund PancakeSwap liquidity.*
- *Liquidity-adds are funded by selling half of the tokens collected as fees, pairing the received BNB with the token, and adding it as liquidity to the BNB pair.*
- *The recipient of the newly created LP tokens is the burn address, to ensure that the LP tokens are locked.*
- *The owner can update the fee percentages and how they are allocated between distribution and liquidity adds.*
- *Ownership has been renounced, so none of these variables can be changed from their current state, and no additional addresses can be included/excluded from fees.*

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Audit Findings Summary

- *No security issues were identified in our analysis.*
- *As with any token, ensure trust in the team prior to investing, as they have substantial control in the ecosystem regarding the token allocation.*
- *Date: June 5th, 2021*

EXTERNAL THREAT RESULTS

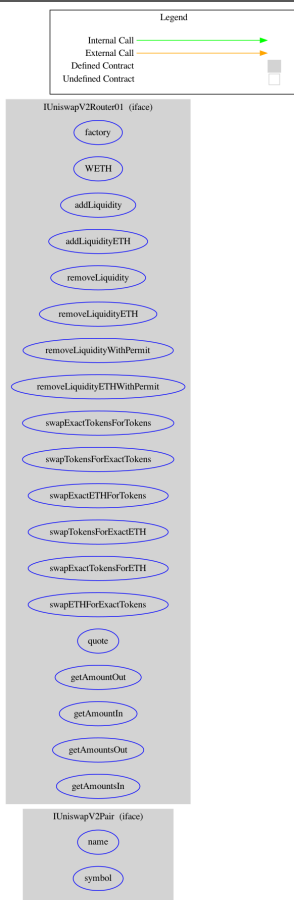
Vulnerability Category	Notes	Result
Arbitrary Storage Write	N/A	PASS
Arbitrary Jump	N/A	PASS
Delegate Call to Untrusted Contract	N/A	PASS
Dependence on Predictable Variables	N/A	PASS
Deprecated Opcodes	N/A	PASS
Ether Thief	N/A	PASS
Exceptions	N/A	PASS
External Calls	N/A	PASS

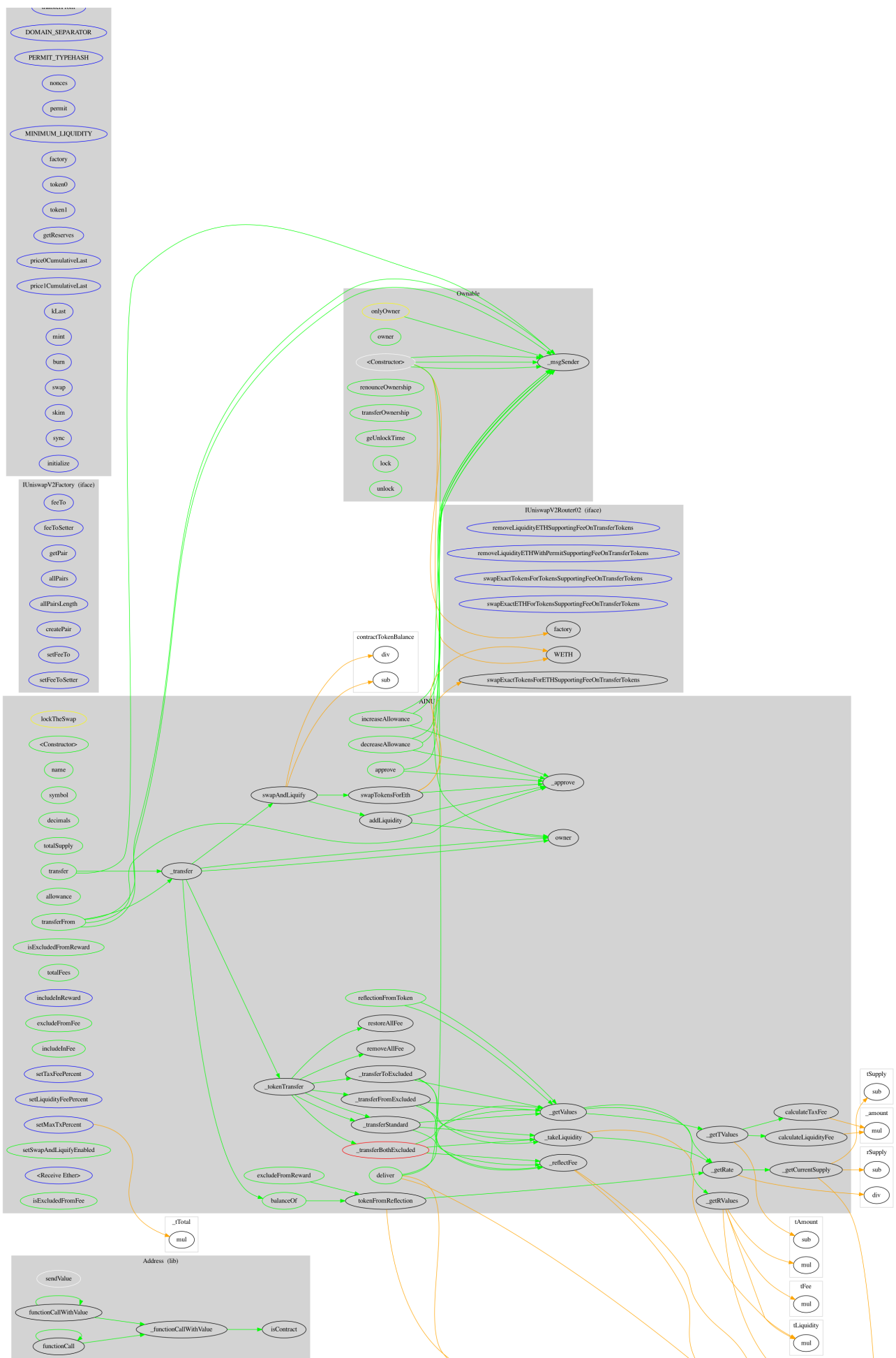
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Vulnerability Category	Notes	Result
Integer Over/Underflow	N/A	PASS
Multiple Sends	N/A	PASS
Oracles	N/A	PASS
Suicide	N/A	PASS
State Change External Calls	N/A	Pass
Unchecked Retval	N/A	PASS

FUNCTION GRAPH



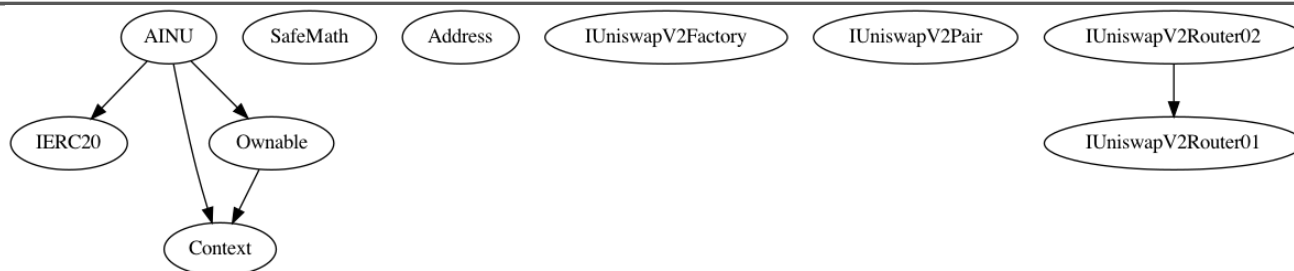


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INHERITENCE CHART



FUNCTIONS OVERVIEW

(\$) = payable function
 # = non-constant function

```

+ [Int] IERC20
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] transfer #
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transferFrom #

```

```

+ [Lib] SafeMath
  - [Int] add

```

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```

- [Int] div
- [Int] mod
- [Int] mod

+ Context
- [Int] _msgSender
- [Int] _msgData

+ [Lib] Address
- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] _functionCallWithValue #

+ Ownable (Context)
- [Int] #
- [Pub] owner
- [Pub] renounceOwnership #
  - modifiers: onlyOwner
- [Pub] transferOwnership #
  - modifiers: onlyOwner
- [Pub] geUnlockTime
- [Pub] lock #
  - modifiers: onlyOwner
- [Pub] unlock #

+ [Int] IUniswapV2Factory
- [Ext] feeTo
- [Ext] feeToSetter

```

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```
- [Ext] setFeeTo #
- [Ext] setFeeToSetter #

+ [Int] IUniswapV2Pair
  - [Ext] name
  - [Ext] symbol
  - [Ext] decimals
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transfer #
  - [Ext] transferFrom #
  - [Ext] DOMAIN_SEPARATOR
  - [Ext] PERMIT_TYPEHASH
  - [Ext] nonces
  - [Ext] permit #
  - [Ext] MINIMUM_LIQUIDITY
  - [Ext] factory
  - [Ext] token0
  - [Ext] token1
  - [Ext] getReserves
  - [Ext] price0CumulativeLast
  - [Ext] price1CumulativeLast
  - [Ext] kLast
  - [Ext] mint #
  - [Ext] burn #
  - [Ext] swap #
  - [Ext] skim #
  - [Ext] sync #
  - [Ext] initialize #
```

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```

- [Ext] addLiquidityETH ($)
- [Ext] removeLiquidity #
- [Ext] removeLiquidityETH #
- [Ext] removeLiquidityWithPermit #
- [Ext] removeLiquidityETHWithPermit #
- [Ext] swapExactTokensForTokens #
- [Ext] swapTokensForExactTokens #
- [Ext] swapExactETHForTokens ($)
- [Ext] swapTokensForExactETH #
- [Ext] swapExactTokensForETH #
- [Ext] swapETHForExactTokens ($)
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn

+ [Int] IUniswapV2Router02 (IUniswapV2Router01)
- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens

+ AINU (Context, IERC20, Ownable)
- [Pub] #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #

```

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```
- [Pub] decreaseAllowance #
- [Pub] isExcludedFromReward
- [Pub] totalFees
- [Pub] deliver #
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward #
    - modifiers: onlyOwner
- [Ext] includeInReward #
    - modifiers: onlyOwner
- [Prv] _transferBothExcluded #
- [Pub] excludeFromFee #
    - modifiers: onlyOwner
- [Pub] includeInFee #
    - modifiers: onlyOwner
- [Ext] setTaxFeePercent #
    - modifiers: onlyOwner
- [Ext] setLiquidityFeePercent #
    - modifiers: onlyOwner
- [Ext] setMaxTxPercent #
    - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
    - modifiers: onlyOwner
- [Ext] ($)
- [Prv] _reflectFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
```

SOURCE CODE

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G O H O M E

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