

# Smart Contract Audit

**FOR** 

# AINUDOGE

**DATED: 16 FEB 23'** 



# **AUDIT SUMMARY**

Project name - AINUDOGE

Date: 16 February, 2023

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed(Contract developed by Pinksale Safu Dev)

## **Issues Found**

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



# **USED TOOLS**

## Tools:

## 1- Manual Review:

a line by line code review has been performed by audit ace team.

#### 2- BSC Test Network:

all tests were done on BSC Test network, each test has its transaction has attached to it.

## 3- Slither: Static Analysis

**Testnet Link:** all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/address/0x2F7bf5c7Da 114D44d6dc1E1C1a8fDa4FCB672BCA#code



# **Token Information**

Token Name: AINUDOGE

Token Symbol: AINU

Decimals: 9

Token Supply: 1,000,000,000,000

### **Token Address:**

0x7dD82eAaF89E4a893Bd884757E5BC3dB22b76C4B

### Checksum:

421c76d77563afa1914846b010bd164f395bd34c2102 e5e99e0cb9cf173c1d87

## Owner:

0xcf0537c1c304dac7b5cdaab79824c659d3e4d533



# **TOKEN OVERVIEW**

Fees:

Buy Fees: up to 12.5%

Sell Fees: up to 12.5%

Transfer Fees: 0%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: None



# **AUDIT METHODOLOGY**

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



# **VULNERABILITY CHECKLIST**





# **CLASSIFICATION OF RISK**

## Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization/Suggestion

## **Description**

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

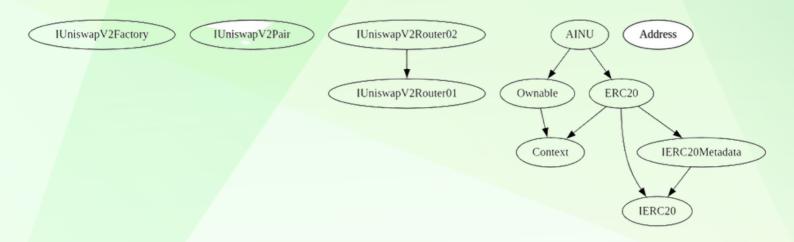
A vulnerability that has an informational character but is not affecting any of the code.

## **Findings**

Severity	Found
◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	0
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	0



## **INHERITANCE TREE**





## **POINTS TO NOTE**

- Owner is not able to set buy/sell fees higher than 12.5%
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to set max buy/sell/transfer amounts
- Owner is not able to disable trades
- Owner is not able to mint new tokens



```
| Contract |
                Type
                             Bases
<mark>|;-----:|;|;-----:|</mark>:|;-----:|
       **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
**IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | NO | |
| | getPair | External | | NO | |
| | allPairs | External | | NO | |
| | allPairsLength | External | | NO | |
📙 createPair | External 📗 | 🛑 | NO 📗
📙 | setFeeTo | External 📗 | 🛑 | NO 📗
| L | setFeeToSetter | External | | ( NO | | |
| **IUniswapV2Pair** | Interface | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transfer | External | | | NO | |
| L | transferFrom | External | | | NO | |
| L | DOMAIN SEPARATOR | External | | | NO | |
| L | PERMIT_TYPEHASH | External | | NO |
| L | nonces | External | | NO |
| L | permit | External | | | NO | |
| L | MINIMUM LIQUIDITY | External | | | NO | |
| L | factory | External | | NO | |
| L | token0 | External | | NO | |
| L | token1 | External | | NO | |
| L | getReserves | External | | | NO | |
| L | price0CumulativeLast | External | | NO | |
| L | price1CumulativeLast | External | | NO | |
| L | kLast | External | | NO | |
| L | mint | External | | | NO | |
| L | burn | External | | | NO | |
| L | swap | External | | | NO | |
| L | skim | External | | | NO | |
| L | sync | External | | | NO | |
| L | initialize | External | | | NO | |
```



```
111111
**IUniswapV2Router01** | Interface | |||
| L | factory | External | | NO | | |
| L | WETH | External | | NO | |
| L | addLiquidity | External | | | NO | |
| L | removeLiquidity | External | | | NO | |
| | removeLiquidityETH | External | | | NO | |
| | removeLiquidityWithPermit | External | | | NO | |
| | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | ( NO | |
📙 | swapTokensForExactTokens | External 📗 | 🛑 | NO 📗
| L | swapExactETHForTokens | External | | 🔟 | NO | | |
| L | swapTokensForExactETH | External | | | | NO | |
| L | swapExactTokensForETH | External | | | NO | |
| L | swapETHForExactTokens | External | | I NO | |
| L | quote | External | | | NO | |
| L | getAmountOut | External L | NOL |
| L | getAmountIn | External | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
\mathbf{H}\mathbf{H}\mathbf{H}\mathbf{H}
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | NO | |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
111111
| **IERC20** | Interface | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
IIIIIII
| **IERC20Metadata** | Interface | IERC20 | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
111111
```



```
**Address** | Library | |||
| L | sendValue | Internal 🦲 | 🛑 | | | | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCallWithValue | Internal 🦲 | 🛑 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| | | functionStaticCall | Internal | | | | |
| | | functionStaticCall | Internal | | | | |
| L | functionDelegateCall | Internal 🦲 | 🛑 | |
| L | functionDelegateCall | Internal 🦰 | 🛑 | |
| L | verifyCallResult | Internal 🦰 | | |
| L | revert | Private 🦳 | | |
\Pi\Pi\Pi\Pi\Pi
| **Context** | Implementation | |||
| L | _msgSender | Internal 🦰 | | |
| L | _msgData | Internal 🦲 | | |
111111
| **Ownable** | Implementation | Context | | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | ( ) | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
IIIIIII
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | | | | |
| L | <Constructor> | Public | | ( ) | NO | |
| L | name | Public | | NO | |
| L | symbol | Public | | NO | |
| L | decimals | Public | | NO | |
| L | totalSupply | Public | | NO | |
| L | balanceOf | Public | | NO | |
| L | transfer | Public | | | | NO | |
| L | allowance | Public | | NO | |
| L | approve | Public | | | NO | |
| L | transferFrom | Public | | ( ) | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | | NO | |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | _mint | Internal 🦰 | 🛑 | |
| L | _burn | Internal 🦲 | 🧓 | |
```



```
| L | _beforeTokenTransfer | Internal 🦰 | 🛑 | |
| L | _afterTokenTransfer | Internal 🦰 | 🛑 | |
111111
**AINU** | Implementation | ERC20, Ownable | | |
| L | <Receive Ether> | External | | | | NO | |
| L | claimStuckTokens | External | | | | onlyOwner |
| L | excludeFromFees | External | | | | onlyOwner |
| L | isExcludedFromFees | Public | | NO | |
📙 | changeMarketingWallet | External 📗 | 🛑 | onlyOwner |
📙 | changeGrowthWallet | External 📗 | 🛑 | onlyOwner |
| L | changeEcosystemWallet | External | | 🛑 | onlyOwner | |
| L | updateBuyFees | External | | | | onlyOwner |
| L | updateSellFees | External | | | | onlyOwner |
| L | enableTrading | External | | | | onlyOwner |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | setSwapEnabled | External | | ( ) | onlyOwner |
| L | setSwapTokensAtAmount | External | | | | onlyOwner |
| L | swapAndLiquify | Private 🦳 | 🧓 | |
| L | swapAndSendTokens | Private 🦳 | 🛑 | |
| Symbol | Meaning |
|:-----|
  | Function can modify state |
   Function is payable |
```



## STATIC ANALYSIS

```
Address, functionExpected|icideres, bytes| (contracts/Token, sol#507-607) is mean used and should be removed
Address, functionExpected|icideres, bytes, string) (contracts/Token, sol#508-508) is never used and should be removed
Address, functionStaticCall(idideres, bytes, string) (contracts/Token, sol#508-508) is never used and should be removed
Address, functionStaticCall(idideres, bytes, string) (contracts/Token, sol#608-608) is never used and should be removed
Address, incontract(idideres) (contracts/Token, sol#608-608) is never used and should be removed
Address, incontract(idideres) (contracts/Token, sol#608-608) is never used and should be removed
Address, incontracts/Token, sol#608-608) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-608) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-608) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-608) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-608) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-608) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-608) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-608) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-602) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-602) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-602) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-602) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-602) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-602) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-602) is never used and should be removed
Context, sophata() (contracts/Token, sol#608-602) is never used and should be removed
Context, sol#608-6
```

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



# **FUNCTIONAL TESTING**

#### Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding Liquidity (Passed): liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0x1ec637aaa6ba03c094a9fd1e699 353c53513a2386a26721d7819d3d8b054deee

2- Buying (liquidity + marketing + growth + eco fee 12.5% max ) (Passed):

https://testnet.bscscan.com/tx/0x9f4b66d9d3278fa37e60792dd5 bb5fde35fafa34e2dca578e59746d608535485

3- Selling (liquidity + marketing + growth + eco fee 12.5% max) (Passed):

https://testnet.bscscan.com/tx/0x5cee6a4cb34cebee4bcb892fd3 31e5c546084bd4a08790e0a71e3d1d2e22f680

4-Transferring (0% Tax)(Passed):

https://testnet.bscscan.com/tx/0x5b554d5344c0eac9045af4c037 1c86e8b7c94737af38613e038ecd58c69cdf7c



# **FUNCTIONAL TESTING**

#### 5-Auto Liquidity(Passed):

#### 6-Internal Swap(Passed):

#### growth wallet:

https://testnet.bscscan.com/address/0x7068c898eb5ad86c3b5a2 a4408eee7900264ade6#internaltx

#### marketing wallet:

https://testnet.bscscan.com/address/0x00ec55a11e61826622fd8c 9fda51d3a61b0cb21c#internaltx

#### eco wallet:

 $\frac{https://testnet.bscscan.com/address/0x3a9802f498f2d797f4c536}{aa7ee7f4c3680cfaee\#internaltx}$ 



# **MANUAL TESTING**

## **NO ISSUES FOUND**



# 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. 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 Auditace 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 Auditace 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 Auditace team disclaims any liability for the resulting losses.



# **ABOUT AUDITACE**

We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



https://auditace.tech/



https://t.me/Audit\_Ace



https://twitter.com/auditace\_



https://github.com/Audit-Ace