



Doke Inu

# Smart Contract Audit Report

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# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
Doke Inu	DOKE	Ethereum

## Addresses

Contract address	0xDba35afc5f4d5AF4933C29a157Dab3975F3eee9B
Contract deployer address	0xf004EdB399AB06F5eED4139Ef81d6D25a9C551cA

## Project Website

<https://doke.wtf/>

## Codebase

<https://etherscan.io/address/0xDba35afc5f4d5AF4933C29a157Dab3975F3eee9B#code>

# SUMMARY

DOKE INU - DOKE. Missed \$DOGE and \$SHIB? Don't miss \$DOKE. Two in one.

## Contract Summary

### **Documentation Quality**

Doke Inu provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also dont have any high risk issue.

### **Code Quality**

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by Doke Inu with the discovery of several low issues.

### **Test Coverage**

Test coverage of the project is 100% ( Through Codebase )

## Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 83, 98, 106, 107, 121, 175, 175, 176, 176, 201, 201, 202, 202, 203, 203, 352, 431 and 583.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 12.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 398, 399, 432 and 584.

## CONCLUSION

We have audited the Doke Inu project released on January 2023 to discover issues and identify potential security vulnerabilities in Doke Inu Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides a satisfactory result with some low-risk issues.

The issues found in the Doke Inu smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.

# AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS

DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using <code>abi.encodePacked()</code> with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The <code>transfer()</code> and <code>send()</code> functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



# SMART CONTRACT ANALYSIS

Started	Thursday Jan 05 2023 21:42:59 GMT+0000 (Coordinated Universal Time)
Finished	Friday Jan 06 2023 11:16:02 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	Doke.sol

## Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged

SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 83

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
82  function add(uint256 a, uint256 b) internal pure returns (uint256) {
83  uint256 c = a + b;
84  require(c >= a, "SafeMath: addition overflow");
85  return c;
86  }
87
```

## SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 98

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- Doke.sol

### Locations

```
97  require(b <= a, errorMessage);
98  uint256 c = a - b;
99  return c;
100 }
101
102
```

## SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 106

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- Doke.sol

### Locations

```
105     }
106     uint256 c = a * b;
107     require(c / a == b, "SafeMath: multiplication overflow");
108     return c;
109     }
110
```

## SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 107

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- Doke.sol

### Locations

```
106  uint256 c = a * b;
107  require(c / a == b, "SafeMath: multiplication overflow");
108  return c;
109  }
110
111
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 121

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
120   require(b > 0, errorMessage);
121   uint256 c = a / b;
122   return c;
123   }
124   }
125
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 175

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
174 uint256 private constant MAX = ~uint256(0);
175 uint256 private constant _tTotal = 1000000000 * 10**9;
176 uint256 private _rTotal = (MAX - (MAX % _tTotal));
177 uint256 private _tFeeTotal;
178 uint256 private _redisFeeOnBuy = 0;
179
```



# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 175

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
174 uint256 private constant MAX = ~uint256(0);
175 uint256 private constant _tTotal = 1000000000 * 10**9;
176 uint256 private _rTotal = (MAX - (MAX % _tTotal));
177 uint256 private _tFeeTotal;
178 uint256 private _redisFeeOnBuy = 0;
179
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 176

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
175 uint256 private constant _tTotal = 1000000000 * 10**9;
176 uint256 private _rTotal = (MAX - (MAX % _tTotal));
177 uint256 private _tFeeTotal;
178 uint256 private _redisFeeOnBuy = 0;
179 uint256 private _taxFeeOnBuy = 4;
180
```

# SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 176

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
175 uint256 private constant _tTotal = 1000000000 * 10**9;
176 uint256 private _rTotal = (MAX - (MAX % _tTotal));
177 uint256 private _tFeeTotal;
178 uint256 private _redisFeeOnBuy = 0;
179 uint256 private _taxFeeOnBuy = 4;
180
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 201

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
200
201  uint256 public _maxTxAmount = 20000000 * 10**9;
202  uint256 public _maxWalletSize = 20000000 * 10**9;
203  uint256 public _swapTokensAtAmount = 10000 * 10**9;
204
205
```

# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 201

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
200
201  uint256 public _maxTxAmount = 20000000 * 10**9;
202  uint256 public _maxWalletSize = 20000000 * 10**9;
203  uint256 public _swapTokensAtAmount = 10000 * 10**9;
204
205
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 202

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
201 uint256 public _maxTxAmount = 20000000 * 10**9;  
202 uint256 public _maxWalletSize = 20000000 * 10**9;  
203 uint256 public _swapTokensAtAmount = 10000 * 10**9;  
204  
205 event MaxTxAmountUpdated(uint256 _maxTxAmount);  
206
```

# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 202

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
201 uint256 public _maxTxAmount = 20000000 * 10**9;  
202 uint256 public _maxWalletSize = 20000000 * 10**9;  
203 uint256 public _swapTokensAtAmount = 10000 * 10**9;  
204  
205 event MaxTxAmountUpdated(uint256 _maxTxAmount);  
206
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 203

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
202 uint256 public _maxWalletSize = 20000000 * 10**9;
203 uint256 public _swapTokensAtAmount = 10000 * 10**9;
204
205 event MaxTxAmountUpdated(uint256 _maxTxAmount);
206 modifier lockTheSwap {
207
```



# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 203

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
202 uint256 public _maxWalletSize = 20000000 * 10**9;
203 uint256 public _swapTokensAtAmount = 10000 * 10**9;
204
205 event MaxTxAmountUpdated(uint256 _maxTxAmount);
206 modifier lockTheSwap {
207
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 352

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
351  if(to != uniswapV2Pair) {  
352  require(balanceOf(to) + amount < _maxWalletSize, "TOKEN: Balance exceeds wallet  
size!");  
353  }  
354  
355  uint256 contractTokenBalance = balanceOf(address(this));  
356
```

## SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 431

### low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

### Source File

- Doke.sol

### Locations

```
430     function blockBots(address[] memory bots_) public onlyOwner {
431         for (uint256 i = 0; i < bots_.length; i++) {
432             bots[bots_[i]] = true;
433         }
434     }
435
```

# SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 583

## low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

## Source File

- Doke.sol

## Locations

```
582  function excludeMultipleAccountsFromFees(address[] calldata accounts, bool
excluded) public onlyOwner {
583  for(uint256 i = 0; i < accounts.length; i++) {
584  _isExcludedFromFee[accounts[i]] = excluded;
585  }
586  }
587
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 12

### low SEVERITY

The current pragma Solidity directive is ""^0.8.9"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

### Source File

- Doke.sol

### Locations

```
11 // SPDX-License-Identifier: Unlicensed
12 pragma solidity ^0.8.9;
13
14 abstract contract Context {
15     function _msgSender() internal view virtual returns (address) {
16
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 398

### low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- Doke.sol

### Locations

```
397 address[] memory path = new address[](2);
398 path[0] = address(this);
399 path[1] = uniswapV2Router.WETH();
400 _approve(address(this), address(uniswapV2Router), tokenAmount);
401 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
402
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 399

### low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- Doke.sol

### Locations

```
398 path[0] = address(this);
399 path[1] = uniswapV2Router.WETH();
400 _approve(address(this), address(uniswapV2Router), tokenAmount);
401 uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
402 tokenAmount,
403
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 432

### low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- Doke.sol

### Locations

```
431   for (uint256 i = 0; i < bots_.length; i++) {  
432     bots[bots_[i]] = true;  
433   }  
434 }  
435  
436
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 584

### low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

### Source File

- Doke.sol

### Locations

```
583   for(uint256 i = 0; i < accounts.length; i++) {  
584     _isExcludedFromFee[accounts[i]] = excluded;  
585   }  
586 }  
587  
588
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of 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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