

Dogcoin

Smart Contract Audit Report





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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
Dogcoin	DOGS	Binance Smart Chain	

Addresses

Contract address	0xbccd27062ae1a2bea5731c904b96edfb163aba21
Contract deployer address	0x9F2f0f30D7446668D9c1ae94CC29b8F70817a8AE

Project Website

https://dogcoin.network/

Codebase

https://bscscan.com/address/0xbccd27062ae1a2bea5731c904b96edfb163aba21#code



SUMMARY

The Dogcoin Platform is an EVM compatible blockchain that bridges the gap between technical, traffic and ecological resources. It offers enhanced efficiency and costeffectiveness when constructing decentralised applications, as well as comprehensive support in promotion, traffic and resource management. This unified infrastructure platform is positioned to revolutionise the DApp industry. Developers around the world will be able to access a variety of innovative facilities and services delivered by Dogcoin.

Contract Summary

Documentation Quality

Dogcoin 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 Dogcoin 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 120, 120, 121, 121, 122, 128, 128, 129, 129, 132, 132, 244, 250, 257, 268, 279, 280, 288, 290, 293, 297, 297, 299, 299, 304, 308, 335, 336, 340, 392, 394, 395, 411, 411, 411, 426, 426, 428, 429, 435, 435, 437, 438, 445, 445, 447, 448, 456, 456, 458, 459, 459, 460, 478, 482, 526, 526, 530, 530, 543, 553, 565, 566, 566, 583, 584, 585, 585, 587, 587, 593, 594, 595, 595, 597, 597, 603, 604, 604 and 290.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- 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 289, 290, 290, 504, 505, 544, 554, 604 and 604.



CONCLUSION

We have audited the Dogcoin project released on August 2022 to discover issues and identify potential security vulnerabilities in Dogcoin 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 satisfactory results with low-risk issues.

The Dogcoin smart contract code issues 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 a floating pragma set and out-of-bounds array access which the index access expression can cause an exception in case of an invalid array index value. The current pragma Solidity directive is ""^0.8.7"". 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.



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.		
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.	a message call should be	
Unprotected Ether Withdrawal	SWC-105		PASS	
SELFDESTRUCT Instruction	SWC-106		PASS	
Reentrancy SWC-107 Check effect interaction pattern should be followed if the code performs recursive call.		Check effect interaction pattern should be followed if the code performs recursive call.	PASS	
Uninitialized Storage Pointer	SWC-109	WC-109 Uninitialized local storage variables can point to unexpected storage locations in the contract. PASS		
Assert Violation	Assert Violation SWC-110 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.	
Race Conditions	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-121		PASS
Incorrect Constructor Name	SWC-118 '		PASS
Shadowing State Variable SWC-119 State variables should not be shadowed.		State variables should not be shadowed.	PASS
Weak Sources of Randomness Randomness Random values should never be generated from Chain Attributes or be predictable.		PASS	
Write to Arbitrary Storage Location 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 contracts which accept data and use it in a sub-call on		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.	
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.	
Unused variables SWC-131 SWC-135 Unused variables are allowed in Solidity and they do not pose a direct security issue.		Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
SWC-132		Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable SWC-133		Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas swc-134 amount		The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



SMART CONTRACT ANALYSIS

Started	Sunday Aug 14 2022 09:11:43 GMT+0000 (Coordinated Universal Time)		
Finished	Monday Aug 15 2022 22:39:50 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	Dogcoin.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-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-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-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-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	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	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-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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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 120

low SEVERITY

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

Source File

- Dogcoin.sol

```
119
120  uint256 private constant T_TOTAL = 1e15 * 10**DECIMALS;
121  uint256 private _rTotal = (MAX - (MAX % T_TOTAL));
122  uint256 private _reflectionRate = _rTotal / T_TOTAL;
123  uint256 private constant MIN_REFLECTION_RATE = T_TOTAL;
124
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 120

low SEVERITY

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

Source File

- Dogcoin.sol

```
119
120  uint256 private constant T_TOTAL = 1e15 * 10**DECIMALS;
121  uint256 private _rTotal = (MAX - (MAX % T_TOTAL));
122  uint256 private _reflectionRate = _rTotal / T_TOTAL;
123  uint256 private constant MIN_REFLECTION_RATE = T_TOTAL;
124
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 121

low SEVERITY

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

Source File

- Dogcoin.sol

```
uint256 private constant T_TOTAL = 1e15 * 10**DECIMALS;
uint256 private _rTotal = (MAX - (MAX % T_TOTAL));

uint256 private _reflectionRate = _rTotal / T_TOTAL;

uint256 private constant MIN_REFLECTION_RATE = T_TOTAL;

uint256 private _tExcludedFromRewardTotal;

125
```



SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 121

low SEVERITY

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

Source File

- Dogcoin.sol

```
uint256 private constant T_TOTAL = 1e15 * 10**DECIMALS;
uint256 private _rTotal = (MAX - (MAX % T_TOTAL));

uint256 private _reflectionRate = _rTotal / T_TOTAL;

uint256 private constant MIN_REFLECTION_RATE = T_TOTAL;

uint256 private _tExcludedFromRewardTotal;
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 122

low SEVERITY

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

Source File

- Dogcoin.sol

```
uint256 private _rTotal = (MAX - (MAX % T_TOTAL));
uint256 private _reflectionRate = _rTotal / T_TOTAL;
uint256 private constant MIN_REFLECTION_RATE = T_TOTAL;
uint256 private _tExcludedFromRewardTotal;
uint256 private _rExcludedFromRewardTotal;
125 uint256 private _rExcludedFromRewardTotal;
126
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 128

low SEVERITY

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

Source File

- Dogcoin.sol

```
127
128    uint256    public antiWhaleAmt = 50_000_000_000_000 * 10**DECIMALS;
129    uint256    public swapTokensAtAmount = 20_000_000_000 * 10**DECIMALS;
130
131    // Anti Dump //
132
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 128

low SEVERITY

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

Source File

- Dogcoin.sol

```
127
128 uint256 public antiWhaleAmt = 50_000_000_000_000 * 10**DECIMALS;
129 uint256 public swapTokensAtAmount = 20_000_000_000 * 10**DECIMALS;
130
131 // Anti Dump //
132
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 129

low SEVERITY

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

Source File

- Dogcoin.sol

```
128     uint256     public antiWhaleAmt = 50_000_000_000_000 * 10**DECIMALS;
129     uint256     public swapTokensAtAmount = 20_000_000_000 * 10**DECIMALS;
130
131     // Anti Dump //
132     uint256     public maxSellAmountPerCycle = 50_000_000_000 * 10**DECIMALS;
133
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 129

low SEVERITY

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

Source File

- Dogcoin.sol

```
128     uint256     public antiWhaleAmt = 50_000_000_000_000 * 10**DECIMALS;
129     uint256     public swapTokensAtAmount = 20_000_000_000 * 10**DECIMALS;
130
131     // Anti Dump //
132     uint256     public maxSellAmountPerCycle = 50_000_000_000 * 10**DECIMALS;
133
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 132

low SEVERITY

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

Source File

- Dogcoin.sol

```
131 // Anti Dump //
132 uint256 public maxSellAmountPerCycle = 50_000_000_000 * 10**DECIMALS;
133 uint256 public antiDumpCycle = 1 hours;
134
135 // only allow Whitelist PancakeSwap Trading //
136
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 132

low SEVERITY

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

Source File

- Dogcoin.sol

```
131  // Anti Dump //
132  uint256 public maxSellAmountPerCycle = 50_000_000_000 * 10**DECIMALS;
133  uint256 public antiDumpCycle = 1 hours;
134
135  // only allow Whitelist PancakeSwap Trading //
136
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 244

low SEVERITY

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

Source File

- Dogcoin.sol

```
require(currentAllowance >= amount, "ERC20: transfer amount exceeds allowance");

approve(sender, _msgSender(), currentAllowance - amount);

return true;

}
```



SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 250

low SEVERITY

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

Source File

- Dogcoin.sol

```
function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
250    _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
251    return true;
252  }
253
254
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 257

low SEVERITY

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

Source File

- Dogcoin.sol

```
256    require(currentAllowance >= subtractedValue, "ERC20: decreased allowance below
zero");
257    _approve(_msgSender(), spender, currentAllowance - subtractedValue);
258
259    return true;
260  }
261
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 268

low SEVERITY

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

Source File

- Dogcoin.sol

```
require(rAmount <= _rTotal, "Amount must be less than total reflections");
return rAmount / _reflectionRate;
}

//@dev kept original RFI naming -> "reward" as in reflection

require(rAmount <= _rTotal, "Amount must be less than total reflections");
return rAmount / _reflectionRate;
require(rAmount <= _rTotal, "Amount must be less than total reflections");
return rAmount / _reflectionRate;
require(rAmount <= _rTotal, "Amount must be less than total reflections");
return rAmount / _reflectionRate;
return rAmount
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 279

low SEVERITY

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

Source File

- Dogcoin.sol

```
278    _rOwned[account] = 0;
279    _tExcludedFromRewardTotal += tBalance;
280    _rExcludedFromRewardTotal += rBalance;
281  }
282    _isExcludedFromReward[account] = true;
283
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 280

low SEVERITY

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

Source File

- Dogcoin.sol

```
279    _tExcludedFromRewardTotal += tBalance;
280    _rExcludedFromRewardTotal += rBalance;
281  }
282    _isExcludedFromReward[account] = true;
283    _excludedFromReward.push(account);
284
```



SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 288

low SEVERITY

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

Source File

- Dogcoin.sol

```
require(_isExcludedFromReward[account], "Account is not excluded");

for (uint256 i = 0; i < _excludedFromReward.length; i++) {

if (_excludedFromReward[i] == account) {

_excludedFromReward[i] = _excludedFromReward[_excludedFromReward.length - 1];

uint256 tBalance = _tOwned[account];

292
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 290

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (_excludedFromReward[i] == account) {
    _excludedFromReward[i] = _excludedFromReward[_excludedFromReward.length - 1];
    uint256 tBalance = _tOwned[account];
    if (tBalance > 0) {
        uint256 rBalance = tBalance * _reflectionRate;
        294
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 293

low SEVERITY

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

Source File

- Dogcoin.sol



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 297

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (rBalance > _rExcludedFromRewardTotal) {
297    _rTotal += rBalance - _rExcludedFromRewardTotal;
298    } else if (rBalance < _rExcludedFromRewardTotal) {
299    _rTotal -= _rExcludedFromRewardTotal - rBalance;
300    }
301</pre>
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 297

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (rBalance > _rExcludedFromRewardTotal) {
297    _rTotal += rBalance - _rExcludedFromRewardTotal;
298    } else if (rBalance < _rExcludedFromRewardTotal) {
299    _rTotal -= _rExcludedFromRewardTotal - rBalance;
300    }
301</pre>
```



SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 299

low SEVERITY

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

Source File

- Dogcoin.sol

```
298  } else if (rBalance < _rExcludedFromRewardTotal) {
299   _rTotal -= _rExcludedFromRewardTotal - rBalance;
300  }
301   _rExcludedFromRewardTotal = 0;
302
303</pre>
```



LINE 299

low SEVERITY

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

Source File

- Dogcoin.sol

```
298  } else if (rBalance < _rExcludedFromRewardTotal) {
299   _rTotal -= _rExcludedFromRewardTotal - rBalance;
300  }
301   _rExcludedFromRewardTotal = 0;
302
303</pre>
```



LINE 304

low SEVERITY

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

Source File

- Dogcoin.sol

```
303  } else {
304   _rExcludedFromRewardTotal -= rBalance;
305  }
306   _tOwned[account] = 0;
307   _rOwned[account] = rBalance;
308
```



LINE 308

low SEVERITY

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

Source File

- Dogcoin.sol

```
307   _rOwned[account] = rBalance;
308   _tExcludedFromRewardTotal -= tBalance;
309  }
310   _isExcludedFromReward[account] = false;
311   _excludedFromReward.pop();
312
```



LINE 335

low SEVERITY

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

Source File

- Dogcoin.sol

```
334
335  uint256 tSupply = T_TOTAL - _tExcludedFromRewardTotal;
336  uint256 rSupply = _rTotal - _rExcludedFromRewardTotal;
337  if (tSupply == 0) {
338  return;
339
```



LINE 336

low SEVERITY

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

Source File

- Dogcoin.sol

```
335  uint256 tSupply = T_TOTAL - _tExcludedFromRewardTotal;
336  uint256 rSupply = _rTotal - _rExcludedFromRewardTotal;
337  if (tSupply == 0) {
338   return;
339  }
340
```



LINE 340

low SEVERITY

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

Source File

- Dogcoin.sol

```
339 }
340 uint256 newRate = rSupply / tSupply;
341 if (newRate < MIN_REFLECTION_RATE) {
342 _reflectionRate = MIN_REFLECTION_RATE;
343 isRewardEnded = true;
344
```



LINE 392

low SEVERITY

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

Source File

- Dogcoin.sol



LINE 394

low SEVERITY

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

Source File

- Dogcoin.sol



LINE 395

low SEVERITY

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

Source File

- Dogcoin.sol

```
394 require(userLastSell[from].amountSoldInCycle + amount <= maxSellAmountPerCycle,
"You are exceeding maxSellAmountPerCycle");
395 userLastSell[from].amountSoldInCycle += amount;
396 }
397 else{
398 require(amount <= maxSellAmountPerCycle, "You are exceeding
maxSellAmountPerCycle");
399</pre>
```



LINE 411

low SEVERITY

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

Source File

- Dogcoin.sol

```
traderExcludedFromFee ||
usedTaxes.rfi + usedTaxes.marketing + usedTaxes.liquidity + usedTaxes.burn == 0) {
taxFreeTransfer(from, to, amount);
} else {
__tokenTransfer(from, to, amount, usedTaxes);
}
```



LINE 411

low SEVERITY

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

Source File

- Dogcoin.sol

```
traderExcludedFromFee ||
usedTaxes.rfi + usedTaxes.marketing + usedTaxes.liquidity + usedTaxes.burn == 0) {
taxFreeTransfer(from, to, amount);
} else {
__tokenTransfer(from, to, amount, usedTaxes);
}
```



LINE 411

low SEVERITY

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

Source File

- Dogcoin.sol

```
traderExcludedFromFee ||
usedTaxes.rfi + usedTaxes.marketing + usedTaxes.liquidity + usedTaxes.burn == 0) {
taxFreeTransfer(from, to, amount);
} else {
__tokenTransfer(from, to, amount, usedTaxes);
}
```



LINE 426

low SEVERITY

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

Source File

- Dogcoin.sol

```
if(usedTaxes.liquidity != 0) {
    uint256 tLiquidity = tAmount * usedTaxes.liquidity / 100;
    if (tLiquidity != 0) {
        tTransferAmount -= tLiquidity;
        totFeesPaid.liquidity += tLiquidity;
}
```



LINE 426

low SEVERITY

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

Source File

- Dogcoin.sol

```
if(usedTaxes.liquidity != 0) {
426   uint256 tLiquidity = tAmount * usedTaxes.liquidity / 100;
427   if (tLiquidity != 0) {
428   tTransferAmount -= tLiquidity;
429   totFeesPaid.liquidity += tLiquidity;
430
```



LINE 428

low SEVERITY

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

Source File

- Dogcoin.sol

```
427 if (tLiquidity != 0) {
428  tTransferAmount -= tLiquidity;
429  totFeesPaid.liquidity += tLiquidity;
430  _addBalance(address(this), tLiquidity, rate);
431  emit Transfer(sender, address(this), tLiquidity);
432
```



LINE 429

low SEVERITY

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

Source File

- Dogcoin.sol

```
ttransferAmount -= tLiquidity;
totFeesPaid.liquidity += tLiquidity;
and _addBalance(address(this), tLiquidity, rate);
emit Transfer(sender, address(this), tLiquidity);
}
transfer(sender, address(this), tLiquidity);
}
```



LINE 435

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (usedTaxes.marketing != 0 && marketingAddress != DEAD_ADDRESS) {
   uint256 tMarketing = tAmount * usedTaxes.marketing / 100;
   if (tMarketing != 0) {
    tTransferAmount -= tMarketing;
   totFeesPaid.marketing += tMarketing;
}
```



LINE 435

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (usedTaxes.marketing != 0 && marketingAddress != DEAD_ADDRESS) {
    uint256 tMarketing = tAmount * usedTaxes.marketing / 100;
    if (tMarketing != 0) {
        tTransferAmount -= tMarketing;
        totFeesPaid.marketing += tMarketing;
}
```



LINE 437

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (tMarketing != 0) {
437  tTransferAmount -= tMarketing;
438  totFeesPaid.marketing += tMarketing;
439  _addBalance(marketingAddress, tMarketing, rate);
440  emit Transfer(sender, marketingAddress, tMarketing);
441
```



LINE 438

low SEVERITY

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

Source File

- Dogcoin.sol

```
tTransferAmount -= tMarketing;

totFeesPaid.marketing += tMarketing;

addBalance(marketingAddress, tMarketing, rate);

emit Transfer(sender, marketingAddress, tMarketing);

411 }

442
```



LINE 445

low SEVERITY

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

Source File

- Dogcoin.sol

```
444  if (usedTaxes.burn != 0) {
445    uint256 tBurn = tAmount * usedTaxes.burn / 100;
446    if (tBurn != 0) {
447     tTransferAmount -= tBurn;
448    totFeesPaid.burn += tBurn;
449
```



LINE 445

low SEVERITY

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

Source File

- Dogcoin.sol

```
444  if (usedTaxes.burn != 0) {
445   uint256 tBurn = tAmount * usedTaxes.burn / 100;
446  if (tBurn != 0) {
447   tTransferAmount -= tBurn;
448   totFeesPaid.burn += tBurn;
449
```



LINE 447

low SEVERITY

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

Source File

- Dogcoin.sol

```
446  if (tBurn != 0) {
447   tTransferAmount -= tBurn;
448   totFeesPaid.burn += tBurn;
449   _addBalance(DEAD_ADDRESS, tBurn, rate);
450   emit Transfer(sender, DEAD_ADDRESS, tBurn);
451
```



LINE 448

low SEVERITY

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

Source File

- Dogcoin.sol

```
ttransferAmount -= tBurn;
totFeesPaid.burn += tBurn;

449   _addBalance(DEAD_ADDRESS, tBurn, rate);
450   emit Transfer(sender, DEAD_ADDRESS, tBurn);
451 }
452
```



LINE 456

low SEVERITY

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

Source File

- Dogcoin.sol

```
455 if (usedTaxes.rfi != 0 && !isRewardEnded) {
456    uint256 tRfi = tAmount * usedTaxes.rfi / 100;
457    if (tRfi != 0) {
458     tTransferAmount -= tRfi;
459     _rTotal -= tRfi * _reflectionRate;
460
```



LINE 456

low SEVERITY

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

Source File

- Dogcoin.sol

```
455 if (usedTaxes.rfi != 0 && !isRewardEnded) {
456   uint256 tRfi = tAmount * usedTaxes.rfi / 100;
457   if (tRfi != 0) {
458   tTransferAmount -= tRfi;
459   _rTotal -= tRfi * _reflectionRate;
460
```



LINE 458

low SEVERITY

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

Source File

- Dogcoin.sol

```
457 if (tRfi != 0) {
458  tTransferAmount -= tRfi;
459   _rTotal -= tRfi * _reflectionRate;
460  totFeesPaid.rfi += tRfi;
461  needRecalcReflectionRate = true;
462
```



LINE 459

low SEVERITY

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

Source File

- Dogcoin.sol

```
458  tTransferAmount -= tRfi;
459  _rTotal -= tRfi * _reflectionRate;
460  totFeesPaid.rfi += tRfi;
461  needRecalcReflectionRate = true;
462  }
463
```



LINE 459

low SEVERITY

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

Source File

- Dogcoin.sol

```
458  tTransferAmount -= tRfi;
459  _rTotal -= tRfi * _reflectionRate;
460  totFeesPaid.rfi += tRfi;
461  needRecalcReflectionRate = true;
462  }
463
```



LINE 460

low SEVERITY

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

Source File

- Dogcoin.sol

```
459 _rTotal -= tRfi * _reflectionRate;

460 totFeesPaid.rfi += tRfi;

461 needRecalcReflectionRate = true;

462 }

463 }

464
```



LINE 478

low SEVERITY

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

Source File

- Dogcoin.sol

```
//calculate how many tokens we need to exchange
uint256 tokensToSwap = contractTokenBalance / 2;
uint256 otherHalfOfTokens = tokensToSwap;
uint256 initialBalance = address(this).balance;
swapTokensForBNB(tokensToSwap, address(this));
482
```



LINE 482

low SEVERITY

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

Source File

- Dogcoin.sol

```
481 swapTokensForBNB(tokensToSwap, address(this));
482 uint256 newBalance = address(this).balance - (initialBalance);
483 addLiquidity(otherHalfOfTokens, newBalance);
484 }
485
486
```



LINE 526

low SEVERITY

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

Source File

- Dogcoin.sol

```
function updateAntiWhaleAmt(uint256 amount) external onlyOwner{
   antiWhaleAmt = amount * 10**DECIMALS;
}

function updateSwapTokensAtAmount(uint256 amount) external onlyOwner{
   function updateSwapTokensAtAmount(uint256 amount) external onlyOwner{
}
```



LINE 526

low SEVERITY

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

Source File

- Dogcoin.sol

```
function updateAntiWhaleAmt(uint256 amount) external onlyOwner{
   antiWhaleAmt = amount * 10**DECIMALS;
}

function updateSwapTokensAtAmount(uint256 amount) external onlyOwner{
   function updateSwapTokensAtAmount(uint256 amount) external onlyOwner{
}
```



LINE 530

low SEVERITY

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

Source File

- Dogcoin.sol

```
function updateSwapTokensAtAmount(uint256 amount) external onlyOwner{
swapTokensAtAmount = amount * 10**DECIMALS;
}

function updateSwapEnabled(bool _enabled) external onlyOwner{

function updateSwapEnabled(bool _enabled) external onlyOwner{
}
```



LINE 530

low SEVERITY

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

Source File

- Dogcoin.sol

```
function updateSwapTokensAtAmount(uint256 amount) external onlyOwner{
swapTokensAtAmount = amount * 10**DECIMALS;
}

function updateSwapEnabled(bool _enabled) external onlyOwner{

function updateSwapEnabled(bool _enabled) external onlyOwner{
}
```



LINE 543

low SEVERITY

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

Source File

- Dogcoin.sol

```
function bulkAntiBot(address[] memory accounts, bool state) external onlyOwner{
for(uint256 i = 0; i < accounts.length; i++){
    _isBot[accounts[i]] = state;
}

545 }

546 }</pre>
```



LINE 553

low SEVERITY

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

Source File

- Dogcoin.sol

```
function bulkPancakeSwapWhitelist(address[] memory accounts, bool state) external
onlyOwner{
for(uint256 i = 0; i < accounts.length; i++){
   _isPancakeSwapWhitelisted[accounts[i]] = state;
}

555 }

556 }</pre>
```



LINE 565

low SEVERITY

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

Source File

- Dogcoin.sol

```
require(_maxSellAmountPerCycle >= 1_000_000_000, "Amount must be >= 1B");
antiDumpCycle = timeInMinutes * 1 minutes;
maxSellAmountPerCycle = _maxSellAmountPerCycle * 10**DECIMALS;
}

66

568

569
```



LINE 566

low SEVERITY

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

Source File

- Dogcoin.sol

```
565    antiDumpCycle = timeInMinutes * 1 minutes;
566    maxSellAmountPerCycle = _maxSellAmountPerCycle * 10**DECIMALS;
567  }
568
569    function isBot(address account) public view returns(bool){
570
```



LINE 566

low SEVERITY

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

Source File

- Dogcoin.sol

```
565 antiDumpCycle = timeInMinutes * 1 minutes;
566 maxSellAmountPerCycle = _maxSellAmountPerCycle * 10**DECIMALS;
567 }
568
569 function isBot(address account) public view returns(bool){
570
```



LINE 583

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (_isExcludedFromReward[account]) {
    _tOwned[account] += tAmount;
    _tExcludedFromRewardTotal += tAmount;
    _rExcludedFromRewardTotal += tAmount * rate;
} else {
```



LINE 584

low SEVERITY

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

Source File

- Dogcoin.sol

```
__tOwned[account] += tAmount;

584    __tExcludedFromRewardTotal += tAmount;

585    __rExcludedFromRewardTotal += tAmount * rate;

586    } else {

587    __rOwned[account] += tAmount * rate;

588
```



LINE 585

low SEVERITY

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

Source File

- Dogcoin.sol



LINE 585

low SEVERITY

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

Source File

- Dogcoin.sol



LINE 587

low SEVERITY

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

Source File

- Dogcoin.sol

```
586  } else {
587   _rOwned[account] += tAmount * rate;
588  }
589  }
590
591
```



LINE 587

low SEVERITY

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

Source File

- Dogcoin.sol

```
586      } else {
587      _rOwned[account] += tAmount * rate;
588      }
589      }
590
591
```



LINE 593

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (_isExcludedFromReward[account]) {
593    _tOwned[account] -= tAmount;
594    _tExcludedFromRewardTotal -= tAmount;
595    _rExcludedFromRewardTotal -= tAmount * rate;
596  } else {
597
```



LINE 594

low SEVERITY

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

Source File

- Dogcoin.sol

```
593 _tOwned[account] -= tAmount;
594 _tExcludedFromRewardTotal -= tAmount;
595 _rExcludedFromRewardTotal -= tAmount * rate;
596 } else {
597 _rOwned[account] -= tAmount * rate;
598
```



LINE 595

low SEVERITY

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

Source File

- Dogcoin.sol

```
594   _tExcludedFromRewardTotal -= tAmount;
595    _rExcludedFromRewardTotal -= tAmount * rate;
596  } else {
597    _rOwned[account] -= tAmount * rate;
598  }
599
```



LINE 595

low SEVERITY

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

Source File

- Dogcoin.sol

```
594   _tExcludedFromRewardTotal -= tAmount;
595    _rExcludedFromRewardTotal -= tAmount * rate;
596  } else {
597    _rOwned[account] -= tAmount * rate;
598  }
599
```



LINE 597

low SEVERITY

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

Source File

- Dogcoin.sol



LINE 597

low SEVERITY

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

Source File

- Dogcoin.sol



LINE 603

low SEVERITY

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

Source File

- Dogcoin.sol

```
require(accounts.length == amounts.length, "Arrays must have the same size");
for(uint256 i= 0; i < accounts.length; i++){
  taxFreeTransfer(msg.sender, accounts[i], amounts[i] * 10**DECIMALS);
}

605 }
606 }</pre>
```



LINE 604

low SEVERITY

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

Source File

- Dogcoin.sol

```
for(uint256 i= 0; i < accounts.length; i++){
  taxFreeTransfer(msg.sender, accounts[i], amounts[i] * 10**DECIMALS);
  }
  605  }
  606  }
  607
  608</pre>
```



LINE 604

low SEVERITY

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

Source File

- Dogcoin.sol

```
for(uint256 i= 0; i < accounts.length; i++){
    taxFreeTransfer(msg.sender, accounts[i], amounts[i] * 10**DECIMALS);
    }
    605    }
    606    }
    607
    608</pre>
```



SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 290

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (_excludedFromReward[i] == account) {
    _excludedFromReward[i] = _excludedFromReward[_excludedFromReward.length - 1];
    uint256 tBalance = _tOwned[account];
    if (tBalance > 0) {
        uint256 rBalance = tBalance * _reflectionRate;
        294
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

low SEVERITY

The current pragma Solidity directive is ""^0.8.7"". 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

- Dogcoin.sol

```
5  // SPDX-License-Identifier: NOLICENSE
6  pragma solidity ^0.8.7;
7  
8  interface IERC20 {
9  function totalSupply() external view returns (uint256);
10
```



LINE 289

low SEVERITY

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

Source File

- Dogcoin.sol

```
for (uint256 i = 0; i < _excludedFromReward.length; i++) {
  if (_excludedFromReward[i] == account) {
    _excludedFromReward[i] = _excludedFromReward[_excludedFromReward.length - 1];
    uint256 tBalance = _tOwned[account];
    if (tBalance > 0) {
        293
```



LINE 290

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (_excludedFromReward[i] == account) {
    _excludedFromReward[i] = _excludedFromReward[_excludedFromReward.length - 1];
    uint256 tBalance = _tOwned[account];
    if (tBalance > 0) {
        uint256 rBalance = tBalance * _reflectionRate;
        294
```



LINE 290

low SEVERITY

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

Source File

- Dogcoin.sol

```
if (_excludedFromReward[i] == account) {
    _excludedFromReward[i] = _excludedFromReward[_excludedFromReward.length - 1];
    uint256 tBalance = _tOwned[account];
    if (tBalance > 0) {
        uint256 rBalance = tBalance * _reflectionRate;
        294
```



LINE 504

low SEVERITY

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

Source File

- Dogcoin.sol

```
address[] memory path = new address[](2);
path[0] = address(this);
path[1] = router.WETH();

approve(address(this), address(router), tokenAmount);

approve(address(this), address(router), tokenAmount);
```



LINE 505

low SEVERITY

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

Source File

- Dogcoin.sol

```
504 path[0] = address(this);
505 path[1] = router.WETH();
506
507 _approve(address(this), address(router), tokenAmount);
508
509
```



LINE 544

low SEVERITY

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

Source File

- Dogcoin.sol

```
543 for(uint256 i = 0; i < accounts.length; i++){
544   _isBot[accounts[i]] = state;
545  }
546  }
547
548</pre>
```



LINE 554

low SEVERITY

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

Source File

- Dogcoin.sol

```
553    for(uint256 i = 0; i < accounts.length; i++){
554     _isPancakeSwapWhitelisted[accounts[i]] = state;
555    }
556  }
557
558</pre>
```



LINE 604

low SEVERITY

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

Source File

- Dogcoin.sol

```
for(uint256 i= 0; i < accounts.length; i++){
  taxFreeTransfer(msg.sender, accounts[i], amounts[i] * 10**DECIMALS);
  }
  605  }
  606  }
  607
  608</pre>
```



LINE 604

low SEVERITY

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

Source File

- Dogcoin.sol

```
for(uint256 i= 0; i < accounts.length; i++){
  taxFreeTransfer(msg.sender, accounts[i], amounts[i] * 10**DECIMALS);
  }
  605  }
  606  }
  607
  608</pre>
```



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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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