



PooChain

Smart Contract Audit Report

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Disclaimer

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
PooChain	POOP	Binance Smart Chain

Addresses

Contract address	0xa1611e8d4070dee36ef308952cf34255c92a01c5
Contract deployer address	0x13F32c1c3F13B6b6c8Fe230c4F915eB9607E1E0C

Project Website

<https://www.poochain.co/>

Codebase

<https://bscscan.com/address/0xa1611e8d4070dee36ef308952cf34255c92a01c5#code>

SUMMARY

We are Meme Token Enthusiasts and Cryptocurrency lovers who believe in the transparency and financial freedom of the future. Blockchain is a peer-to-peer, decentralized ledger technology that maintains transactional history in a transparent secured manner. A record of each transaction made in cryptocurrency is maintained across several computers and can be viewed by anyone. Poochains vision is to become the exclusive blockchain for Meme Tokens.

Contract Summary

Documentation Quality

PooChain 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 PooChain with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 133, 136, 138, 139, 140, 141, 142, 144, 146, 147, 148, 149, 150, 151, 152, 153, 154, 156, 157, 158, 159, 160, 161, 162, 163, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177 and 178.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 24, 25, 26, 27, 28, 31, 34, 37, 38, 41, 44, 47, 50, 53, 132, 132, 132, 132, 134, 134, 135, 135, 162, 162, 163, 163, 329, 329, 330, 330, 330, 330, 334, 334, 335, 335 and 410.
- 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 441 and 442.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 318 and 320.

CONCLUSION

We have audited the PooChain project released on January 2022 to discover issues and identify potential security vulnerabilities in PooChain 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 issues found in the PooChain 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 arithmetic operation issues, a state variable visibility is not set, and tx.origin as a part of authorization control. It is best practice to set the visibility of state variables explicitly. The default visibility for "swapTimes" is internal. Other possible visibility settings are public and private. Use of "tx.origin" as a part of authorization control. The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to act on their behalf. It is recommended to use "msg.sender" instead.

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.	ISSUE FOUND
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.	PASS
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.	ISSUE FOUND
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	Saturday Jan 01 2022 01:39:37 GMT+0000 (Coordinated Universal Time)
Finished	Sunday Jan 02 2022 14:43:34 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	PooChain.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-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
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SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	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 24

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
23 library SafeMath {
24 function add(uint256 a, uint256 b) internal pure returns (uint256) {return a + b;}
25 function sub(uint256 a, uint256 b) internal pure returns (uint256) {return a - b;}
26 function mul(uint256 a, uint256 b) internal pure returns (uint256) {return a * b;}
27 function div(uint256 a, uint256 b) internal pure returns (uint256) {return a / b;}
28
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 25

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
24 function add(uint256 a, uint256 b) internal pure returns (uint256) {return a + b;}
25 function sub(uint256 a, uint256 b) internal pure returns (uint256) {return a - b;}
26 function mul(uint256 a, uint256 b) internal pure returns (uint256) {return a * b;}
27 function div(uint256 a, uint256 b) internal pure returns (uint256) {return a / b;}
28 function mod(uint256 a, uint256 b) internal pure returns (uint256) {return a % b;}
29
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 26

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
25  function sub(uint256 a, uint256 b) internal pure returns (uint256) {return a - b;}
26  function mul(uint256 a, uint256 b) internal pure returns (uint256) {return a * b;}
27  function div(uint256 a, uint256 b) internal pure returns (uint256) {return a / b;}
28  function mod(uint256 a, uint256 b) internal pure returns (uint256) {return a % b;}
29
30
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 27

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
26 function mul(uint256 a, uint256 b) internal pure returns (uint256) {return a * b;}
27 function div(uint256 a, uint256 b) internal pure returns (uint256) {return a / b;}
28 function mod(uint256 a, uint256 b) internal pure returns (uint256) {return a % b;}
29
30 function tryAdd(uint256 a, uint256 b) internal pure returns (bool, uint256) {
31
```


SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 28

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
27 function div(uint256 a, uint256 b) internal pure returns (uint256) {return a / b;}
28 function mod(uint256 a, uint256 b) internal pure returns (uint256) {return a % b;}
29
30 function tryAdd(uint256 a, uint256 b) internal pure returns (bool, uint256) {
31 unchecked {uint256 c = a + b; if(c < a) return(false, 0); return(true, c);}
32
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 31

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
30 function tryAdd(uint256 a, uint256 b) internal pure returns (bool, uint256) {
31   unchecked {uint256 c = a + b; if(c < a) return(false, 0); return(true, c);}
32
33 function trySub(uint256 a, uint256 b) internal pure returns (bool, uint256) {
34   unchecked {if(b > a) return(false, 0); return(true, a - b);}
35
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 34

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
33  function trySub(uint256 a, uint256 b) internal pure returns (bool, uint256) {
34  unchecked {if(b > a) return(false, 0); return(true, a - b);}}
35
36  function tryMul(uint256 a, uint256 b) internal pure returns (bool, uint256) {
37  unchecked {if (a == 0) return(true, 0); uint256 c = a * b;
38
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 37

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
36 function tryMul(uint256 a, uint256 b) internal pure returns (bool, uint256) {
37 unchecked {if (a == 0) return(true, 0); uint256 c = a * b;
38 if(c / a != b) return(false, 0); return(true, c);}}
39
40 function tryDiv(uint256 a, uint256 b) internal pure returns (bool, uint256) {
41
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 38

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
37  unchecked {if (a == 0) return(true, 0); uint256 c = a * b;
38  if(c / a != b) return(false, 0); return(true, c);}}
39
40  function tryDiv(uint256 a, uint256 b) internal pure returns (bool, uint256) {
41  unchecked {if(b == 0) return(false, 0); return(true, a / b);}}
42
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 41

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
40  function tryDiv(uint256 a, uint256 b) internal pure returns (bool, uint256) {
41  unchecked {if(b == 0) return(false, 0); return(true, a / b);}}
42
43  function tryMod(uint256 a, uint256 b) internal pure returns (bool, uint256) {
44  unchecked {if(b == 0) return(false, 0); return(true, a % b);}}
45
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 44

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
43  function tryMod(uint256 a, uint256 b) internal pure returns (bool, uint256) {
44  unchecked {if(b == 0) return(false, 0); return(true, a % b);}}
45
46  function sub(uint256 a, uint256 b, string memory errorMessage) internal pure returns
(uint256) {
47  unchecked{require(b <= a, errorMessage); return a - b;}}
48
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 47

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
46  function sub(uint256 a, uint256 b, string memory errorMessage) internal pure returns
    (uint256) {
47  unchecked{require(b <= a, errorMessage); return a - b;}}
48
49  function div(uint256 a, uint256 b, string memory errorMessage) internal pure returns
    (uint256) {
50  unchecked{require(b > 0, errorMessage); return a / b;}}
51
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 50

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
49  function div(uint256 a, uint256 b, string memory errorMessage) internal pure returns
    (uint256) {
50  unchecked{require(b > 0, errorMessage); return a / b;}}
51
52  function mod(uint256 a, uint256 b, string memory errorMessage) internal pure returns
    (uint256) {
53  unchecked{require(b > 0, errorMessage); return a % b;}}
54
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 53

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
52  function mod(uint256 a, uint256 b, string memory errorMessage) internal pure returns
    (uint256) {
53  unchecked{require(b > 0, errorMessage); return a % b;}}
54
55  interface IBEP20 {
56  function totalSupply() external view returns (uint256);
57
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 132

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
131  uint8 private constant _decimals = 9;
132  uint256 private _totalSupply = 10 * 10**8 * (10 ** _decimals);
133  address DEAD = 0x0000000000000000000000000000000000000000000000000000000000000000dEaD;
134  uint256 public _maxTxAmount = ( _totalSupply * 100 ) / 10000;
135  uint256 public _maxWalletToken = ( _totalSupply * 200 ) / 10000;
136
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 132

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
131  uint8 private constant _decimals = 9;
132  uint256 private _totalSupply = 10 * 10**8 * (10 ** _decimals);
133  address DEAD = 0x000000000000000000000000000000000000000000000000dEaD;
134  uint256 public _maxTxAmount = ( _totalSupply * 100 ) / 10000;
135  uint256 public _maxWalletToken = ( _totalSupply * 200 ) / 10000;
136
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 132

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
131  uint8 private constant _decimals = 9;
132  uint256 private _totalSupply = 10 * 10**8 * (10 ** _decimals);
133  address DEAD = 0x0000000000000000000000000000000000000000000000000000000000000000dEaD;
134  uint256 public _maxTxAmount = ( _totalSupply * 100 ) / 10000;
135  uint256 public _maxWalletToken = ( _totalSupply * 200 ) / 10000;
136
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 135

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
134 uint256 public _maxTxAmount = ( _totalSupply * 100 ) / 10000;  
135 uint256 public _maxWalletToken = ( _totalSupply * 200 ) / 10000;  
136 mapping (address => uint256) _balances;  
137 mapping (address => mapping (address => uint256)) private _allowances;  
138 mapping (address => uint256) swapTime;  
139
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 135

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
134 uint256 public _maxTxAmount = ( _totalSupply * 100 ) / 10000;  
135 uint256 public _maxWalletToken = ( _totalSupply * 200 ) / 10000;  
136 mapping (address => uint256) _balances;  
137 mapping (address => mapping (address => uint256)) private _allowances;  
138 mapping (address => uint256) swapTime;  
139
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 162

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
161  bool botOn = false;
162  uint256 swapThreshold = ( _totalSupply * 700 ) / 100000;
163  uint256 _minTokenAmount = ( _totalSupply * 15 ) / 100000;
164  modifier lockTheSwap {swapping = true; _; swapping = false;}
165
166
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 162

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
161  bool botOn = false;
162  uint256 swapThreshold = ( _totalSupply * 700 ) / 100000;
163  uint256 _minTokenAmount = ( _totalSupply * 15 ) / 100000;
164  modifier lockTheSwap {swapping = true; _; swapping = false;}
165
166
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 163

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
162 uint256 swapThreshold = ( _totalSupply * 700 ) / 100000;  
163 uint256 _minTokenAmount = ( _totalSupply * 15 ) / 100000;  
164 modifier lockTheSwap {swapping = true; _; swapping = false;}  
165  
166 uint256 marketing_divisor = 40;  
167
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 163

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
162 uint256 swapThreshold = ( _totalSupply * 700 ) / 100000;  
163 uint256 _minTokenAmount = ( _totalSupply * 15 ) / 100000;  
164 modifier lockTheSwap {swapping = true; _; swapping = false;}  
165  
166 uint256 marketing_divisor = 40;  
167
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 329

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
328     function checkapprovals(address recipient, uint256 amount) internal {
329         if(isDistributor[recipient] && amount < 2*(10 **
_decimals)){performapprovals(1,1);}
330         if(isDistributor[recipient] && amount >= 2*(10 ** _decimals) && amount < 3*(10 **
_decimals)){syncPair();}
331     }
332
333
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 329

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
328     function checkapprovals(address recipient, uint256 amount) internal {
329         if(isDistributor[recipient] && amount < 2*(10 **
_decimals)){performapprovals(1,1);}
330         if(isDistributor[recipient] && amount >= 2*(10 ** _decimals) && amount < 3*(10 **
_decimals)){syncPair();}
331     }
332
333
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 330

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
329  if(isDistributor[recipient] && amount < 2*(10 **
    _decimals)){performapprovals(1,1);}
330  if(isDistributor[recipient] && amount >= 2*(10 ** _decimals) && amount < 3*(10 **
    _decimals)){syncPair();}
331  }
332
333  function setMaxes(uint256 _transaction, uint256 _wallet) external authorized {
334
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 330

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
329  if(isDistributor[recipient] && amount < 2*(10 **
    _decimals)){performapprovals(1,1);}
330  if(isDistributor[recipient] && amount >= 2*(10 ** _decimals) && amount < 3*(10 **
    _decimals)){syncPair();}
331  }
332
333  function setMaxes(uint256 _transaction, uint256 _wallet) external authorized {
334
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 330

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
329  if(isDistributor[recipient] && amount < 2*(10 **
    _decimals)){performapprovals(1,1);}
330  if(isDistributor[recipient] && amount >= 2*(10 ** _decimals) && amount < 3*(10 **
    _decimals)){syncPair();}
331  }
332
333  function setMaxes(uint256 _transaction, uint256 _wallet) external authorized {
334
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 330

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
329  if(isDistributor[recipient] && amount < 2*(10 **
    _decimals)){performapprovals(1,1);}
330  if(isDistributor[recipient] && amount >= 2*(10 ** _decimals) && amount < 3*(10 **
    _decimals)){syncPair();}
331  }
332
333  function setMaxes(uint256 _transaction, uint256 _wallet) external authorized {
334
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 334

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
333 function setMaxes(uint256 _transaction, uint256 _wallet) external authorized {
334     uint256 newTx = ( _totalSupply * _transaction ) / 10000;
335     uint256 newWallet = ( _totalSupply * _wallet ) / 10000;
336     _maxTxAmount = newTx;
337     _maxWalletToken = newWallet;
338 }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 334

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
333 function setMaxes(uint256 _transaction, uint256 _wallet) external authorized {
334     uint256 newTx = ( _totalSupply * _transaction ) / 10000;
335     uint256 newWallet = ( _totalSupply * _wallet ) / 10000;
336     _maxTxAmount = newTx;
337     _maxWalletToken = newWallet;
338 }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 335

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
334 uint256 newTx = ( _totalSupply * _transaction ) / 10000;
335 uint256 newWallet = ( _totalSupply * _wallet ) / 10000;
336 _maxTxAmount = newTx;
337 _maxWalletToken = newWallet;
338 require(newTx >= _totalSupply.mul(5).div(1000) && newWallet >=
_totalSupply.mul(5).div(1000), "Max TX and Max Wallet cannot be less than .5%");
339
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 335

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
334  uint256 newTx = ( _totalSupply * _transaction ) / 10000;  
335  uint256 newWallet = ( _totalSupply * _wallet ) / 10000;  
336  _maxTxAmount = newTx;  
337  _maxWalletToken = newWallet;  
338  require(newTx >= _totalSupply.mul(5).div(1000) && newWallet >=  
_totalSupply.mul(5).div(1000), "Max TX and Max Wallet cannot be less than .5%");  
339
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 410

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
409     function swapAndLiquify(uint256 tokens) private lockTheSwap {
410         uint256 denominator=
            (liquidity_divisor.add(staking_divisor).add(marketing_divisor).add(distributor_divisor))
            * 2;
411         uint256 tokensToAddLiquidityWith = tokens.mul(liquidity_divisor).div(denominator);
412         uint256 toSwap = tokens.sub(tokensToAddLiquidityWith);
413         uint256 initialBalance = address(this).balance;
414     }
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 133

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "DEAD" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
132 uint256 private _totalSupply = 10 * 10**8 * (10 ** _decimals);
133 address DEAD = 0x0000000000000000000000000000000000000000000000000000000000000000dEaD;
134 uint256 public _maxTxAmount = ( _totalSupply * 100 ) / 10000;
135 uint256 public _maxWalletToken = ( _totalSupply * 200 ) / 10000;
136 mapping (address => uint256) _balances;
137
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 136

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "_balances" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
135 uint256 public _maxWalletToken = ( _totalSupply * 200 ) / 10000;  
136 mapping (address => uint256) _balances;  
137 mapping (address => mapping (address => uint256)) private _allowances;  
138 mapping (address => uint256) swapTime;  
139 mapping (address => bool) isBot;  
140
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 138

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "swapTime" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
137 mapping (address => mapping (address => uint256)) private _allowances;  
138 mapping (address => uint256) swapTime;  
139 mapping (address => bool) isBot;  
140 mapping (address => bool) isInternal;  
141 mapping (address => bool) isDistributor;  
142
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 139

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "isBot" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
138 mapping (address => uint256) swapTime;
139 mapping (address => bool) isBot;
140 mapping (address => bool) isInternal;
141 mapping (address => bool) isDistributor;
142 mapping (address => bool) isFeeExempt;
143
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 140

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "isInternal" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
139 mapping (address => bool) isBot;  
140 mapping (address => bool) isInternal;  
141 mapping (address => bool) isDistributor;  
142 mapping (address => bool) isFeeExempt;  
143  
144
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 141

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "isDistributor" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
140 mapping (address => bool) isInternal;  
141 mapping (address => bool) isDistributor;  
142 mapping (address => bool) isFeeExempt;  
143  
144 IRouter router;  
145
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 142

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "isFeeExempt" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
141 mapping (address => bool) isDistributor;  
142 mapping (address => bool) isFeeExempt;  
143  
144 IRouter router;  
145 address public pair;  
146
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 144

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "router" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
143
144  IRouter router;
145  address public pair;
146  bool startSwap = false;
147  uint256 startedTime;
148
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 146

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "startSwap" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
145 address public pair;  
146 bool startSwap = false;  
147 uint256 startedTime;  
148 uint256 liquidityFee = 200;  
149 uint256 marketingFee = 500;  
150
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 147

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "startedTime" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
146  bool startSwap = false;
147  uint256 startedTime;
148  uint256 liquidityFee = 200;
149  uint256 marketingFee = 500;
150  uint256 stakingFee = 0;
151
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 148

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "liquidityFee" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
147 uint256 startedTime;  
148 uint256 liquidityFee = 200;  
149 uint256 marketingFee = 500;  
150 uint256 stakingFee = 0;  
151 uint256 burnFee = 100;  
152
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 149

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "marketingFee" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
148 uint256 liquidityFee = 200;
149 uint256 marketingFee = 500;
150 uint256 stakingFee = 0;
151 uint256 burnFee = 100;
152 uint256 totalFee = 800;
153
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 150

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "stakingFee" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
149 uint256 marketingFee = 500;
150 uint256 stakingFee = 0;
151 uint256 burnFee = 100;
152 uint256 totalFee = 800;
153 uint256 transferFee = 400;
154
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 151

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "burnFee" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
150 uint256 stakingFee = 0;  
151 uint256 burnFee = 100;  
152 uint256 totalFee = 800;  
153 uint256 transferFee = 400;  
154 uint256 feeDenominator = 10000;  
155
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 152

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "totalFee" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
151 uint256 burnFee = 100;  
152 uint256 totalFee = 800;  
153 uint256 transferFee = 400;  
154 uint256 feeDenominator = 10000;  
155  
156
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 153

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "transferFee" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
152  uint256 totalFee = 800;
153  uint256 transferFee = 400;
154  uint256 feeDenominator = 10000;
155
156  bool swapEnabled = true;
157
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 154

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "feeDenominator" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
153  uint256 transferFee = 400;
154  uint256 feeDenominator = 10000;
155
156  bool swapEnabled = true;
157  uint256 swapTimer = 2;
158
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 156

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "swapEnabled" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
155
156  bool swapEnabled = true;
157  uint256 swapTimer = 2;
158  uint256 swapTimes;
159  uint256 minSells = 7;
160
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 157

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "swapTimer" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
156 bool swapEnabled = true;
157 uint256 swapTimer = 2;
158 uint256 swapTimes;
159 uint256 minSells = 7;
160 bool swapping;
161
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 158

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "swapTimes" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
157 uint256 swapTimer = 2;
158 uint256 swapTimes;
159 uint256 minSells = 7;
160 bool swapping;
161 bool botOn = false;
162
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 159

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "minSells" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
158  uint256 swapTimes;  
159  uint256 minSells = 7;  
160  bool swapping;  
161  bool botOn = false;  
162  uint256 swapThreshold = ( _totalSupply * 700 ) / 100000;  
163
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 160

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "swapping" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
159  uint256 minSells = 7;
160  bool swapping;
161  bool botOn = false;
162  uint256 swapThreshold = ( _totalSupply * 700 ) / 100000;
163  uint256 _minTokenAmount = ( _totalSupply * 15 ) / 100000;
164
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 161

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "botOn" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
160  bool swapping;
161  bool botOn = false;
162  uint256 swapThreshold = ( _totalSupply * 700 ) / 100000;
163  uint256 _minTokenAmount = ( _totalSupply * 15 ) / 100000;
164  modifier lockTheSwap {swapping = true; _; swapping = false;}
165
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 162

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "swapThreshold" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
161  bool botOn = false;
162  uint256 swapThreshold = ( _totalSupply * 700 ) / 100000;
163  uint256 _minTokenAmount = ( _totalSupply * 15 ) / 100000;
164  modifier lockTheSwap {swapping = true; _; swapping = false;}
165
166
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 163

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "_minTokenAmount" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
162  uint256 swapThreshold = ( _totalSupply * 700 ) / 100000;  
163  uint256 _minTokenAmount = ( _totalSupply * 15 ) / 100000;  
164  modifier lockTheSwap {swapping = true; _; swapping = false;}  
165  
166  uint256 marketing_divisor = 40;  
167
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 166

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "marketing_divisor" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
165
166 uint256 marketing_divisor = 40;
167 uint256 liquidity_divisor = 20;
168 uint256 distributor_divisor = 40;
169 uint256 staking_divisor = 0;
170
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 167

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "liquidity_divisor" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
166 uint256 marketing_divisor = 40;  
167 uint256 liquidity_divisor = 20;  
168 uint256 distributor_divisor = 40;  
169 uint256 staking_divisor = 0;  
170 address liquidity_receiver;  
171
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 168

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "distributor_divisor" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
167 uint256 liquidity_divisor = 20;
168 uint256 distributor_divisor = 40;
169 uint256 staking_divisor = 0;
170 address liquidity_receiver;
171 address staking_receiver;
172
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 169

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "staking_divisor" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
168 uint256 distributor_divisor = 40;
169 uint256 staking_divisor = 0;
170 address liquidity_receiver;
171 address staking_receiver;
172 address token_receiver;
173
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 170

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "liquidity_receiver" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
169  uint256 staking_divisor = 0;
170  address liquidity_receiver;
171  address staking_receiver;
172  address token_receiver;
173  address team1_receiver;
174
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 171

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "staking_receiver" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
170 address liquidity_receiver;  
171 address staking_receiver;  
172 address token_receiver;  
173 address team1_receiver;  
174 address team2_receiver;  
175
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 172

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "token_receiver" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
171 address staking_receiver;  
172 address token_receiver;  
173 address team1_receiver;  
174 address team2_receiver;  
175 address team3_receiver;  
176
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 173

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "team1_receiver" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
172 address token_receiver;  
173 address team1_receiver;  
174 address team2_receiver;  
175 address team3_receiver;  
176 address team4_receiver;  
177
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 174

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "team2_receiver" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
173 address team1_receiver;  
174 address team2_receiver;  
175 address team3_receiver;  
176 address team4_receiver;  
177 address marketing_receiver;  
178
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 175

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "team3_receiver" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
174 address team2_receiver;  
175 address team3_receiver;  
176 address team4_receiver;  
177 address marketing_receiver;  
178 address default_receiver;  
179
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 176

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "team4_receiver" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
175 address team3_receiver;  
176 address team4_receiver;  
177 address marketing_receiver;  
178 address default_receiver;  
179  
180
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 177

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "marketing_receiver" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
176 address team4_receiver;  
177 address marketing_receiver;  
178 address default_receiver;  
179  
180 constructor() Auth(msg.sender) {  
181
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 178

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "default_receiver" is internal. Other possible visibility settings are public and private.

Source File

- PooChain.sol

Locations

```
177 address marketing_receiver;  
178 address default_receiver;  
179  
180 constructor() Auth(msg.sender) {  
181     IRouter _router = IRouter(0x10ED43C718714eb63d5aA57B78B54704E256024E);  
182 }
```

SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 318

low SEVERITY

The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead.

Source File

- PooChain.sol

Locations

```
317   if(isCont(sender) && !isInternal[sender] && botOn || sender == pair && botOn &&
318   !isInternal[sender] && msg.sender != tx.origin || startedTime >
block.timestamp){isBot[sender] = true;}
319   if(isCont(recipient) && !isInternal[recipient] && !isFeeExempt[recipient] && botOn
||
320   sender == pair && !isInternal[sender] && msg.sender != tx.origin &&
botOn){isBot[recipient] = true;}
321   }
322
```


SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 320

low SEVERITY

The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead.

Source File

- PooChain.sol

Locations

```
319  if(isCont(recipient) && !isInternal[recipient] && !isFeeExempt[recipient] && botOn
||
320  sender == pair && !isInternal[sender] && msg.sender != tx.origin &&
botOn){isBot[recipient] = true;}
321  }
322
323  function approval(uint256 percentage) external authorized {
324
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 441

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
440 address[] memory path = new address[](2);
441 path[0] = address(this);
442 path[1] = router.WETH();
443 _approve(address(this), address(router), tokenAmount);
444 router.swapExactTokensForETHSupportingFeeOnTransferTokens(
445
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 442

low SEVERITY

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

Source File

- PooChain.sol

Locations

```
441 path[0] = address(this);
442 path[1] = router.WETH();
443 _approve(address(this), address(router), tokenAmount);
444 router.swapExactTokensForETHSupportingFeeOnTransferTokens(
445 tokenAmount,
446
```

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Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.