

ShibaCrypt
Smart Contract
Audit Report





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# **AUDITED DETAILS**

## | Audited Project

Project name	Token ticker	Blockchain	
ShibaCrypt	SCX	Ethereum	

## Addresses

Contract address	0xD15bC1F6408d11c2513444B9d0253efd838AF781
Contract deployer address	0xD15bC1F6408d11c2513444B9d0253efd838AF781

### Project Website

https://scxdao.com/

### Codebase

https://etherscan.io/address/0xD15bC1F6408d11c2513444B9d0253efd838AF781#code



### **SUMMARY**

ShibaCrypt is a token on the ERC20 blockchain inspired by the decentralized community-led vision of the original Shiba project, and launched by a former member of the Shiba development team. The project relies on community governance via DAO and provides web applications for various blockchain utilities.

### Contract Summary

#### **Documentation Quality**

ShibaCrypt 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 ShibaCrypt 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 701 and 726.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 110, 142, 165, 166, 201, 237, 465, 706, 706, 707, 707, 729, 729, 730, 730, 731, 731, 862, 864, 912, 917, 917, 922, 922, 950, 1008, 1027, 1033, 1109, 1139 and 864.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 11.
- 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 863, 864, 864, 949, 1009, 1009, 1010, 1011, 1149 and 1150.



## CONCLUSION

We have audited the ShibaCrypt project released on July 2022 to discover issues and identify potential security vulnerabilities in ShibaCrypt Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

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

The issues found in the ShibaCrypt smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value. 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.		
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	e it 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			
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.		



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.	
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
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.	
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
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.	
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/.	
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.	
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.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	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	Wednesday Jul 06 2022 20:25:22 GMT+0000 (Coordinated Universal Time)		
Finished	Thursday Jul 07 2022 02:58:22 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	ShibaCrypt.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	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



**LINE 110** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
  uint256 c = a + b;
  require(c >= a, "SafeMath: addition overflow");
  return c;
  return c;
  114
```



**LINE 142** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
141 require(b <= a, errorMessage);
142 uint256 c = a - b;
143
144 return c;
145 }
146</pre>
```



**LINE 165** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
164
165    uint256 c = a * b;
166    require(c / a == b, "SafeMath: multiplication overflow");
167
168    return c;
169
```



**LINE 166** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
165    uint256    c = a * b;
166    require(c / a == b, "SafeMath: multiplication overflow");
167
168    return c;
169    }
170
```



**LINE 201** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
200    require(b > 0, errorMessage);
201    uint256 c = a / b;
202    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
203
204    return c;
205
```



**LINE 237** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
236 require(b != 0, errorMessage);
237 return a % b;
238 }
239 }
240
241
```



**LINE 465** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
464  _owner = address(0);
465  _lockTime = block.timestamp + time;
466  emit OwnershipTransferred(_owner, address(0));
467  }
468
469
```



**LINE** 706

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
uint256 private constant MAX = ~uint256(0);
uint256 private _tTotal = 1000000000000 * 10**9;
uint256 private _rTotal = (MAX - (MAX % _tTotal));
uint256 private _tFeeTotal;
address public marketingWallet;
```



**LINE** 706

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
705  uint256 private constant MAX = ~uint256(0);
706  uint256 private _tTotal = 1000000000000 * 10**9;
707  uint256 private _rTotal = (MAX - (MAX % _tTotal));
708  uint256 private _tFeeTotal;
709  address public marketingWallet;
710
```



**LINE** 707

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
706 uint256 private _tTotal = 100000000000 * 10**9;
707 uint256 private _rTotal = (MAX - (MAX % _tTotal));
708 uint256 private _tFeeTotal;
709 address public marketingWallet;
710
711
```



**LINE** 707

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
706  uint256 private _tTotal = 100000000000 * 10**9;
707  uint256 private _rTotal = (MAX - (MAX % _tTotal));
708  uint256 private _tFeeTotal;
709  address public marketingWallet;
710
711
```



**LINE** 729

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
728
729    uint256    public _maxTxAmount = 5000000000 * 10**9;
730    uint256    public numTokensSellToAddToLiquidity = 300000000 * 10**9;
731    uint256    public _maxWalletSize = 10000000000 * 10**9;
732
733
```



**LINE** 729

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
728
729    uint256    public _maxTxAmount = 500000000 * 10**9;
730    uint256    public    numTokensSellToAddToLiquidity = 30000000 * 10**9;
731    uint256    public _maxWalletSize = 1000000000 * 10**9;
732
733
```



**LINE 730** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
uint256 public _maxTxAmount = 500000000 * 10**9;
uint256 public numTokensSellToAddToLiquidity = 30000000 * 10**9;
uint256 public _maxWalletSize = 10000000000 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);

734
```



**LINE** 730

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
uint256 public _maxTxAmount = 500000000 * 10**9;
uint256 public numTokensSellToAddToLiquidity = 30000000 * 10**9;
uint256 public _maxWalletSize = 10000000000 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);

734
```



**LINE 731** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
vuint256 public numTokensSellToAddToLiquidity = 30000000 * 10**9;
uint256 public _maxWalletSize = 10000000000 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
event SwapAndLiquifyEnabledUpdated(bool enabled);

735
```



**LINE 731** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
uint256 public numTokensSellToAddToLiquidity = 30000000 * 10**9;
uint256 public _maxWalletSize = 10000000000 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
event SwapAndLiquifyEnabledUpdated(bool enabled);

735
```



**LINE 862** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
861 require(_isExcluded[account], "Account is already excluded");
862 for (uint256 i = 0; i < _excluded.length; i++) {
863 if (_excluded[i] == account) {
864 _excluded[i] = _excluded[_excluded.length - 1];
865 _tOwned[account] = 0;
866</pre>
```



**LINE 864** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
if (_excluded[i] == account) {
    excluded[i] = _excluded[_excluded.length - 1];
    t0wned[account] = 0;
    _isExcluded[account] = false;
    _excluded.pop();
    s68
```



**LINE 912** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
911 {
912  _maxWalletSize = _tTotal.mul(maxWalletSize).div(10**3);
913 }
914
915  function setMaxTxAmount(uint256 maxTxAmount) external onlyOwner() {
916
```



**LINE 917** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
916  require(maxTxAmount > 10000000, "Max Tx Amount cannot be less than 10 Million");
917  _maxTxAmount = maxTxAmount * 10**9;
918  }
919
920  function setSwapThresholdAmount(uint256 SwapThresholdAmount) external onlyOwner() {
921
```



**LINE 917** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
916  require(maxTxAmount > 10000000, "Max Tx Amount cannot be less than 10 Million");
917  _maxTxAmount = maxTxAmount * 10**9;
918  }
919
920  function setSwapThresholdAmount(uint256 SwapThresholdAmount) external onlyOwner() {
921
```



**LINE 922** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
921 require(SwapThresholdAmount > 10000000, "Swap Threshold Amount cannot be less than
10 Million");
922 numTokensSellToAddToLiquidity = SwapThresholdAmount * 10**9;
923 }
924
925 function claimTokens () public onlyOwner {
926
```



**LINE 922** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
921 require(SwapThresholdAmount > 10000000, "Swap Threshold Amount cannot be less than
10 Million");
922 numTokensSellToAddToLiquidity = SwapThresholdAmount * 10**9;
923 }
924
925 function claimTokens () public onlyOwner {
926
```



**LINE 950** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
949 addBotWalletsInternal(multiplebotWallets[iterator]);
950 iterator += 1;
951 }
952 }
953
954
```



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

**LINE 1008** 

#### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
1007  uint256 tSupply = _tTotal;
1008  for (uint256 i = 0; i < _excluded.length; i++) {
1009   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
1010   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1011  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1012
```



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

**LINE 1027** 

### **low SEVERITY**

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

## Source File

- ShibaCrypt.sol



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

**LINE 1033** 

### **low SEVERITY**

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

## Source File

- ShibaCrypt.sol

```
1032  return _amount.mul(_liquidityFee).div(
1033    10**2
1034  );
1035  }
1036
1037
```



# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

**LINE 1109** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
1108  require(
1109  amount + balanceOf(to) <= _maxWalletSize,
1110  "Recipient exceeds max wallet size."
1111  );
1112  }
1113</pre>
```



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

**LINE 1139** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
1138  payable(marketingWallet).transfer(marketingshare);
1139  newBalance -= marketingshare;
1140  // add liquidity to uniswap
1141  addLiquidity(otherHalf, newBalance);
1142
1143
```



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

**LINE 864** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
if (_excluded[i] == account) {
    excluded[i] = _excluded[_excluded.length - 1];
    t0wned[account] = 0;
    _isExcluded[account] = false;
    _excluded.pop();
    s68
```



# SWC-103 | A FLOATING PRAGMA IS SET.

LINE 11

#### **low SEVERITY**

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

## Source File

- ShibaCrypt.sol

```
10
11 pragma solidity ^0.8.9;
12 // SPDX-License-Identifier: Unlicensed
13 interface IERC20 {
14
15
```



# SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

**LINE** 701

#### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
700 mapping (address => bool) private botWallets;
701 bool botscantrade = false;
702
703 bool public canTrade = false;
704
705
```



# SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

**LINE 726** 

#### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
725
726 bool inSwapAndLiquify;
727 bool public swapAndLiquifyEnabled = true;
728
729 uint256 public _maxTxAmount = 500000000 * 10**9;
730
```



**LINE 863** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
for (uint256 i = 0; i < _excluded.length; i++) {
    if (_excluded[i] == account) {
        excluded[i] = _excluded[_excluded.length - 1];
        excluded[account] = 0;
        isExcluded[account] = false;
        excluded[account] = false;
        exclud
```



**LINE 864** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
if (_excluded[i] == account) {
    excluded[i] = _excluded[_excluded.length - 1];
    t0wned[account] = 0;
    _isExcluded[account] = false;
    _excluded.pop();
    s68
```



**LINE 864** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
if (_excluded[i] == account) {
    excluded[i] = _excluded[_excluded.length - 1];
    t0wned[account] = 0;
    _isExcluded[account] = false;
    _excluded.pop();
    s68
```



**LINE 949** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
948 while(iterator < multiplebotWallets.length){
949   addBotWalletsInternal(multiplebotWallets[iterator]);
950   iterator += 1;
951  }
952  }
953</pre>
```



**LINE 1009** 

#### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
1008  for (uint256 i = 0; i < _excluded.length; i++) {
1009   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
1010   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1011   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1012  }
1013
```



**LINE 1009** 

#### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
1008  for (uint256 i = 0; i < _excluded.length; i++) {
1009   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
1010   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1011   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1012  }
1013
```



**LINE 1010** 

#### **low SEVERITY**

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

#### Source File

- ShibaCrypt.sol

```
1009 if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
1010    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1011    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1012    }
1013    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1014</pre>
```



**LINE 1011** 

#### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
1010  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1011  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1012  }
1013  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1014  return (rSupply, tSupply);
1015</pre>
```



**LINE 1149** 

#### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
1148   address[] memory path = new address[](2);
1149   path[0] = address(this);
1150   path[1] = uniswapV2Router.WETH();
1151
1152   _approve(address(this), address(uniswapV2Router), tokenAmount);
1153
```



**LINE 1150** 

### **low SEVERITY**

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

### Source File

- ShibaCrypt.sol

```
1149 path[0] = address(this);
1150 path[1] = uniswapV2Router.WETH();
1151
1152 _approve(address(this), address(uniswapV2Router), tokenAmount);
1153
1154
```



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