



NanoMatic Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
NanoMatic	NANO	Binance Smart Chain

Addresses

Contract address	0xb15488af39bd1de209d501672a293bcd05f82ab4
Contract deployer address	0x6A8160398eb57cb4d0C74d7B5C0F74b4a2D29b07

Project Website

<https://www.nanomatic.io/>

Codebase

<https://bscscan.com/address/0xb15488af39bd1de209d501672a293bcd05f82ab4#code>

SUMMARY

NanoMatic is a deflationary Matic rewards token on the Binance Smart Chain. NanoMatic embellishes a state-of-the-art rewards distributor, offering 10% Matic Rewards on both buys and sells. The token will serve as the form of currency of OptDex, a revolutionary DeFi Cryptocurrency Options trading platform slated to be released in late 2023. NanoMatic will launch with an initial supply of 10 million, a “Nano” amount compared to Matic’s monstrous 10 billion result supply. The token, however, will be deflationary as NanoMatic will offer a revolutionary concept of Burn & Sync.

| Contract Summary

Documentation Quality

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

- The technical description is provided clearly and structured and also don't have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by NanoMatic 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 849, 943, 944 and 946.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 105, 137, 160, 161, 196, 232, 259, 263, 275, 282, 291, 375, 665, 865, 952, 952, 1003, 1003, 1016, 1019, 1172, 1174, 1216, 1216, 1222, 1229, 1299, 1318, 1323, 1323, 1323, 1323, 1323, 1324, 1385, 1411, 1411, 1450, 1450, 1450, 1450, 1474, 1480, 1499, 1508, 1708, 1757, 1779, 1787, 1956, 1966, 1969, 375 and 1174.
- 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 346, 376, 381, 1173, 1174, 1174, 1300, 1300, 1301, 1302, 1549, 1550, 1567, 1568, 1581, 1582, 1583 and 1962.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 1424 and 2007.

CONCLUSION

We have audited the NanoMatic project released on March 2021 to discover issues and identify potential security vulnerabilities in NanoMatic 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 NanoMatic 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, tx.origin as a part of authorization control, and out-of-bounds array access in which the index access expression can cause an exception to the use of an invalid array index value. State variable visibility is not set, the best practice is to set the visibility of state variables explicitly. The default visibility for "walletFeeInBNB" is internal. Other possible visibility settings are public and private. Use of "tx.origin" as a part of authorization control. Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

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 grieving 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 abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() 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	Friday Mar 10 2023 11:09:00 GMT+0000 (Coordinated Universal Time)
Finished	Saturday Mar 11 2023 08:05:13 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	Token.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	COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED	low	acknowledged
SWC-101	COMPILER-REWRITABLE "<UINT> - 1" 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-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 105

low SEVERITY

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

Source File

- Token.sol

Locations

```
104 function add(uint256 a, uint256 b) internal pure returns (uint256) {  
105     uint256 c = a + b;  
106     require(c >= a, "SafeMath: addition overflow");  
107  
108     return c;  
109 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 137

low SEVERITY

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

Source File

- Token.sol

Locations

```
136   require(b <= a, errorMessage);  
137   uint256 c = a - b;  
138  
139   return c;  
140   }  
141
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 160

low SEVERITY

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

Source File

- Token.sol

Locations

```
159
160  uint256 c = a * b;
161  require(c / a == b, "SafeMath: multiplication overflow");
162
163  return c;
164
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 161

low SEVERITY

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

Source File

- Token.sol

Locations

```
160     uint256 c = a * b;
161     require(c / a == b, "SafeMath: multiplication overflow");
162
163     return c;
164 }
165
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 196

low SEVERITY

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

Source File

- Token.sol

Locations

```
195   require(b > 0, errorMessage);
196   uint256 c = a / b;
197   // assert(a == b * c + a % b); // There is no case in which this doesn't hold
198
199   return c;
200
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 232

low SEVERITY

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

Source File

- Token.sol

Locations

```
231     require(b != 0, errorMessage);
232     return a % b;
233 }
234 }
235
236
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 259

low SEVERITY

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

Source File

- Token.sol

Locations

```
258 function mul(int256 a, int256 b) internal pure returns (int256) {  
259     int256 c = a * b;  
260  
261     // Detect overflow when multiplying MIN_INT256 with -1  
262     require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));  
263 }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 263

low SEVERITY

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

Source File

- Token.sol

Locations

```
262   require(c != MIN_INT256 || (a & MIN_INT256) != (b & MIN_INT256));
263   require((b == 0) || (c / b == a));
264   return c;
265 }
266
267
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 275

low SEVERITY

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

Source File

- Token.sol

Locations

```
274 // Solidity already throws when dividing by 0.  
275 return a / b;  
276 }  
277  
278 /**  
279
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 282

low SEVERITY

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

Source File

- Token.sol

Locations

```
281  function sub(int256 a, int256 b) internal pure returns (int256) {  
282      int256 c = a - b;  
283      require((b >= 0 && c <= a) || (b < 0 && c > a));  
284      return c;  
285  }  
286
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 291

low SEVERITY

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

Source File

- Token.sol

Locations

```
290     function add(int256 a, int256 b) internal pure returns (int256) {
291         int256 c = a + b;
292         require((b >= 0 && c >= a) || (b < 0 && c < a));
293         return c;
294     }
295
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 375

low SEVERITY

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

Source File

- Token.sol

Locations

```
374  uint index = map.indexOf[key];  
375  uint lastIndex = map.keys.length - 1;  
376  address lastKey = map.keys[lastIndex];  
377  
378  map.indexOf[lastKey] = index;  
379
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 665

low SEVERITY

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

Source File

- Token.sol

Locations

```
664  _owner = address(0);  
665  _lockTime = block.timestamp + time;  
666  emit OwnershipTransferred(_owner, address(0));  
667  }  
668  
669
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 865

low SEVERITY

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

Source File

- Token.sol

Locations

```
864 uint256 public _tDividendTotal = 0;
865 uint256 internal constant magnitude = 2**128;
866 uint256 internal magnifiedDividendPerShare;
867 mapping(address => int256) internal magnifiedDividendCorrections;
868 mapping(address => uint256) internal withdrawnDividends;
869
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 952

low SEVERITY

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

Source File

- Token.sol

Locations

```
951  uint256 public numTokensSellToAddToLiquidity;  
952  uint256 private buyBackUpperLimit = 1 * 10**18;  
953  
954  mapping(address => bool) public _isBlacklisted;  
955  
956
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 952

low SEVERITY

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

Source File

- Token.sol

Locations

```
951  uint256 public numTokensSellToAddToLiquidity;  
952  uint256 private buyBackUpperLimit = 1 * 10**18;  
953  
954  mapping(address => bool) public _isBlacklisted;  
955  
956
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1003

low SEVERITY

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

Source File

- Token.sol

Locations

```
1002  _tTotal = amountOfTokenWei;  
1003  _rTotal = (MAX - (MAX % _tTotal));  
1004  
1005  _rOwned[_msgSender()] = _rTotal;  
1006  
1007
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 1003

low SEVERITY

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

Source File

- Token.sol

Locations

```
1002  _tTotal = amountOfTokenWei;  
1003  _rTotal = (MAX - (MAX % _tTotal));  
1004  
1005  _rOwned[_msgSender()] = _rTotal;  
1006  
1007
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1016

low SEVERITY

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

Source File

- Token.sol

Locations

```
1015     _maxTxAmount = _tTotal.mul(setMxTxPer).div(  
1016         10**4  
1017     );  
1018     _maxWalletAmount = _tTotal.mul(setMxWalletPer).div(  
1019         10**4  
1020     );
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1019

low SEVERITY

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

Source File

- Token.sol

Locations

```
1018     _maxWalletAmount = _tTotal.mul(setMxWalletPer).div(  
1019         10**4  
1020     );  
1021  
1022     numTokensSellToAddToLiquidity = amountOfTokenWei.mul(1).div(1000);  
1023
```


SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1172

low SEVERITY

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

Source File

- Token.sol

Locations

```
1171     require(!_isExcluded[account], "Already excluded");
1172     for (uint256 i = 0; i < _excluded.length; i++) {
1173         if (_excluded[i] == account) {
1174             _excluded[i] = _excluded[_excluded.length - 1];
1175             _tOwned[account] = 0;
1176         }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1174

low SEVERITY

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

Source File

- Token.sol

Locations

```
1173     if (_excluded[i] == account) {  
1174         _excluded[i] = _excluded[_excluded.length - 1];  
1175         _tOwned[account] = 0;  
1176         _isExcluded[account] = false;  
1177         _excluded.pop();  
1178     }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1216

low SEVERITY

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

Source File

- Token.sol

Locations

```
1215 function setBuybackUpperLimit(uint256 buyBackLimit) external onlyOwner() {  
1216     buyBackUpperLimit = buyBackLimit * 10**18;  
1217 }  
1218  
1219 function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner() {  
1220
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1216

low SEVERITY

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

Source File

- Token.sol

Locations

```
1215     function setBuybackUpperLimit(uint256 buyBackLimit) external onlyOwner() {  
1216         buyBackUpperLimit = buyBackLimit * 10**18;  
1217     }  
1218  
1219     function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner() {  
1220
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1222

low SEVERITY

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

Source File

- Token.sol

Locations

```
1221     _maxTxAmount = _tTotal.mul(maxTxPercent).div(  
1222         10**4  
1223     );  
1224 }  
1225  
1226
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1229

low SEVERITY

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

Source File

- Token.sol

Locations

```
1228     _maxWalletAmount = _tTotal.mul(maxWalletPercent).div(  
1229     10**4  
1230     );  
1231 }  
1232  
1233
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1299

low SEVERITY

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

Source File

- Token.sol

Locations

```
1298     uint256 tSupply = _tTotal;
1299     for (uint256 i = 0; i < _excluded.length; i++) {
1300         if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
            (_rTotal, _tTotal);
1301         rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1302         tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1303     }
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1318

low SEVERITY

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

Source File

- Token.sol

Locations

```
1317     return _amount.mul(_taxFee).div(  
1318         10**2  
1319     );  
1320 }  
1321  
1322
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1323

low SEVERITY

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

Source File

- Token.sol

Locations

```
1322     function calculateLiquidityFee(uint256 _amount) private view returns (uint256) {  
1323         return _amount.mul(_liquidityFee + _burnFee + _walletFee + _buybackFee +  
            _walletCharityFee + _rewardFee).div(  
1324             10**2  
1325         );  
1326     }  
1327
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1323

low SEVERITY

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

Source File

- Token.sol

Locations

```
1322     function calculateLiquidityFee(uint256 _amount) private view returns (uint256) {
1323         return _amount.mul(_liquidityFee + _burnFee + _walletFee + _buybackFee +
_walletCharityFee + _rewardFee).div(
1324             10**2
1325         );
1326     }
1327
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1323

low SEVERITY

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

Source File

- Token.sol

Locations

```
1322     function calculateLiquidityFee(uint256 _amount) private view returns (uint256) {
1323         return _amount.mul(_liquidityFee + _burnFee + _walletFee + _buybackFee +
        _walletCharityFee + _rewardFee).div(
1324             10**2
1325         );
1326     }
1327
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1323

low SEVERITY

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

Source File

- Token.sol

Locations

```
1322     function calculateLiquidityFee(uint256 _amount) private view returns (uint256) {
1323         return _amount.mul(_liquidityFee + _burnFee + _walletFee + _buybackFee +
        _walletCharityFee + _rewardFee).div(
1324             10**2
1325         );
1326     }
1327
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1323

low SEVERITY

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

Source File

- Token.sol

Locations

```
1322     function calculateLiquidityFee(uint256 _amount) private view returns (uint256) {
1323         return _amount.mul(_liquidityFee + _burnFee + _walletFee + _buybackFee +
        _walletCharityFee + _rewardFee).div(
1324             10**2
1325         );
1326     }
1327
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1324

low SEVERITY

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

Source File

- Token.sol

Locations

```
1323     return _amount.mul(_liquidityFee + _burnFee + _walletFee + _buybackFee +  
1324         _walletCharityFee + _rewardFee).div(  
1325             10**2  
1326         );  
1327     }  
1328 }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1385

low SEVERITY

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

Source File

- Token.sol

Locations

```
1384     uint256 contractBalanceReceipient = balanceOf(to);
1385     require(contractBalanceReceipient + amount <= _maxWalletAmount, "Exceeds maximum
wallet amount");
1386 }
1387 // is the token balance of this contract address over the min number of
1388 // tokens that we need to initiate a swap + liquidity lock?
1389
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1411

low SEVERITY

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

Source File

- Token.sol

Locations

```
1410     uint256 balance = address(this).balance;
1411     if (balance > uint256(1 * 10**18)) {
1412
1413         if (balance > buyBackUpperLimit)
1414             balance = buyBackUpperLimit;
1415     }
```


SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1411

low SEVERITY

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

Source File

- Token.sol

Locations

```
1410 uint256 balance = address(this).balance;
1411 if (balance > uint256(1 * 10**18)) {
1412
1413     if (balance > buyBackUpperLimit)
1414         balance = buyBackUpperLimit;
1415 }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1450

low SEVERITY

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

Source File

- Token.sol

Locations

```
1449 //burn
1450 uint8 totFee = _burnFee + _walletFee + _liquidityFee + _buybackFee +
_walletCharityFee + _rewardFee;
1451 uint256 spentAmount = 0;
1452 uint256 totSpentAmount = 0;
1453 if(_burnFee != 0){
1454
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1450

low SEVERITY

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

Source File

- Token.sol

Locations

```
1449 //burn
1450 uint8 totFee = _burnFee + _walletFee + _liquidityFee + _buybackFee +
_walletCharityFee + _rewardFee;
1451 uint256 spentAmount = 0;
1452 uint256 totSpentAmount = 0;
1453 if(_burnFee != 0){
1454
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1450

low SEVERITY

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

Source File

- Token.sol

Locations

```
1449 //burn
1450 uint8 totFee = _burnFee + _walletFee + _liquidityFee + _buybackFee +
_walletCharityFee + _rewardFee;
1451 uint256 spentAmount = 0;
1452 uint256 totSpentAmount = 0;
1453 if(_burnFee != 0){
1454
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1450

low SEVERITY

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

Source File

- Token.sol

Locations

```
1449 //burn
1450 uint8 totFee = _burnFee + _walletFee + _liquidityFee + _buybackFee +
_walletCharityFee + _rewardFee;
1451 uint256 spentAmount = 0;
1452 uint256 totSpentAmount = 0;
1453 if(_burnFee != 0){
1454
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1450

low SEVERITY

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

Source File

- Token.sol

Locations

```
1449 //burn
1450 uint8 totFee = _burnFee + _walletFee + _liquidityFee + _buybackFee +
_walletCharityFee + _rewardFee;
1451 uint256 spentAmount = 0;
1452 uint256 totSpentAmount = 0;
1453 if(_burnFee != 0){
1454
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1474

low SEVERITY

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

Source File

- Token.sol

Locations

```
1473     }  
1474     totSpentAmount = totSpentAmount + spentAmount;  
1475     }  
1476  
1477     if(_buybackFee != 0){  
1478
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1480

low SEVERITY

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

Source File

- Token.sol

Locations

```
1479     swapTokensForBNB(spentAmount);
1480     totSpentAmount = totSpentAmount + spentAmount;
1481 }
1482
1483 if(_walletCharityFee != 0){
1484
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1499

low SEVERITY

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

Source File

- Token.sol

Locations

```
1498     }  
1499     totSpentAmount = totSpentAmount + spentAmount;  
1500     }  
1501  
1502     if(_rewardFee != 0){  
1503
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1508

low SEVERITY

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

Source File

- Token.sol

Locations

```
1507     distributeDividends(newBalance);  
1508     totSpentAmount = totSpentAmount + spentAmount;  
1509 }  
1510  
1511 if(_liquidityFee != 0){  
1512
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1708

low SEVERITY

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

Source File

- Token.sol

Locations

```
1707     magnifiedDividendPerShare = magnifiedDividendPerShare.add(  
1708         (amount).mul(magnitude) / _tDividendTotal  
1709     );  
1710     emit DividendsDistributed(amount);  
1711  
1712
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1757

low SEVERITY

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

Source File

- Token.sol

Locations

```
1756     return
1757     magnifiedDividendPerShare
1758     .mul(balanceOf(_owner))
1759     .toInt256Safe()
1760     .add(magnifiedDividendCorrections[_owner])
1761
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1779

low SEVERITY

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

Source File

- Token.sol

Locations

```
1778     function _dmint(address account, uint256 value) internal {
1779         _tDividendTotal = _tDividendTotal + value;
1780         magnifiedDividendCorrections[account] = magnifiedDividendCorrections[account].sub(
1781             (magnifiedDividendPerShare.mul(value)).toInt256Safe()
1782         );
1783     }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1787

low SEVERITY

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

Source File

- Token.sol

Locations

```
1786     function _dburn(address account, uint256 value) internal {
1787         _tDividendTotal = _tDividendTotal - value;
1788         magnifiedDividendCorrections[account] = magnifiedDividendCorrections[account].add(
1789             (magnifiedDividendPerShare.mul(value)).toInt256Safe()
1790         );
1791     }
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1956

low SEVERITY

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

Source File

- Token.sol

Locations

```
1955 while (gasUsed < gas && iterations < numberOfTokenHolders) {  
1956   _lastProcessedIndex++;  
1957  
1958   if (_lastProcessedIndex >= tokenHoldersMap.keys.length) {  
1959     _lastProcessedIndex = 0;  
1960
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1966

low SEVERITY

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

Source File

- Token.sol

Locations

```
1965     if (processAccount(payable(account), true)) {  
1966         claims++;  
1967     }  
1968 }  
1969 iterations++;  
1970
```


SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1969

low SEVERITY

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

Source File

- Token.sol

Locations

```
1968     }  
1969     iterations++;  
1970     uint256 newGasLeft = gasleft();  
1971     if (gasLeft > newGasLeft) {  
1972         gasUsed = gasUsed.add(gasLeft.sub(newGasLeft));  
1973     }
```

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

LINE 375

low SEVERITY

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

Source File

- Token.sol

Locations

```
374  uint index = map.indexOf[key];  
375  uint lastIndex = map.keys.length - 1;  
376  address lastKey = map.keys[lastIndex];  
377  
378  map.indexOf[lastKey] = index;  
379
```

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

LINE 1174

low SEVERITY

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

Source File

- Token.sol

Locations

```
1173     if (_excluded[i] == account) {  
1174         _excluded[i] = _excluded[_excluded.length - 1];  
1175         _tOwned[account] = 0;  
1176         _isExcluded[account] = false;  
1177         _excluded.pop();  
1178     }
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 849

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

- Token.sol

Locations

```

848
849     address dead = 0x00000000000000000000000000000000dEaD;
850
851     uint8 public maxLiqFee = 10;
852     uint8 public maxTaxFee = 10;
853

```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 943

low SEVERITY

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

Source File

- Token.sol

Locations

```
942
943     bool walletFeeInBNB = false;
944     bool walletCharityFeeInBNB = false;
945
946     bool inSwapAndLiquify;
947
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 944

low SEVERITY

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

Source File

- Token.sol

Locations

```
943  bool walletFeeInBNB = false;
944  bool walletCharityFeeInBNB = false;
945
946  bool inSwapAndLiquify;
947  bool public swapAndLiquifyEnabled = true;
948
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 946

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

- Token.sol

Locations

```
945
946  bool inSwapAndLiquify;
947  bool public swapAndLiquifyEnabled = true;
948
949  uint256 public _maxTxAmount;
950
```

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

LINE 1424

low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

Source File

- Token.sol

Locations

```
1423     (uint256 iterations, uint256 claims, uint256 _lastProcessedIndex) = process(gas);
1424     emit ProcessedDividendTracker(iterations, claims, _lastProcessedIndex, true, gas,
tx.origin);
1425   }
1426 }
1427
1428
```


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

LINE 2007

low SEVERITY

Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

Source File

- Token.sol

Locations

```
2006    (uint256 iterations, uint256 claims, uint256 _lastProcessedIndex) = process(gas);
2007    emit ProcessedDividendTracker(iterations, claims, _lastProcessedIndex, false, gas,
tx.origin);
2008    }
2009
2010    function blacklistAddress(address account, bool value) external onlyOwner {
2011
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 346

low SEVERITY

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

Source File

- Token.sol

Locations

```
345  function getKeyAtIndex(Map storage map, uint index) internal view returns (address)
346  {
347      return map.keys[index];
348  }
349
350
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 376

low SEVERITY

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

Source File

- Token.sol

Locations

```
375  uint lastIndex = map.keys.length - 1;  
376  address lastKey = map.keys[lastIndex];  
377  
378  map.indexOf[lastKey] = index;  
379  delete map.indexOf[key];  
380
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 381

low SEVERITY

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

Source File

- Token.sol

Locations

```
380
381  map.keys[index] = lastKey;
382  map.keys.pop();
383  }
384  }
385
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1173

low SEVERITY

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

Source File

- Token.sol

Locations

```
1172   for (uint256 i = 0; i < _excluded.length; i++) {  
1173     if (_excluded[i] == account) {  
1174       _excluded[i] = _excluded[_excluded.length - 1];  
1175       _tOwned[account] = 0;  
1176       _isExcluded[account] = false;  
1177     }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1174

low SEVERITY

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

Source File

- Token.sol

Locations

```
1173   if (_excluded[i] == account) {  
1174     _excluded[i] = _excluded[_excluded.length - 1];  
1175     _tOwned[account] = 0;  
1176     _isExcluded[account] = false;  
1177     _excluded.pop();  
1178   }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1174

low SEVERITY

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

Source File

- Token.sol

Locations

```
1173   if (_excluded[i] == account) {  
1174       _excluded[i] = _excluded[_excluded.length - 1];  
1175       _tOwned[account] = 0;  
1176       _isExcluded[account] = false;  
1177       _excluded.pop();  
1178   }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1300

low SEVERITY

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

Source File

- Token.sol

Locations

```
1299   for (uint256 i = 0; i < _excluded.length; i++) {  
1300     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return  
      (_rTotal, _tTotal);  
1301     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
1302     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
1303   }  
1304
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1300

low SEVERITY

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

Source File

- Token.sol

Locations

```
1299   for (uint256 i = 0; i < _excluded.length; i++) {  
1300     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return  
      (_rTotal, _tTotal);  
1301     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
1302     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
1303   }  
1304
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1301

low SEVERITY

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

Source File

- Token.sol

Locations

```
1300  if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
      (_rTotal, _tTotal);
1301  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1302  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1303  }
1304  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1305
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1302

low SEVERITY

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

Source File

- Token.sol

Locations

```
1301  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1302  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1303  }
1304  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1305  return (rSupply, tSupply);
1306
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1549

low SEVERITY

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

Source File

- Token.sol

Locations

```
1548     address[] memory path = new address[](2);  
1549     path[0] = address(this);  
1550     path[1] = pcsV2Router.WETH();  
1551  
1552     _approve(address(this), address(pcsV2Router), tokenAmount);  
1553
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1550

low SEVERITY

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

Source File

- Token.sol

Locations

```
1549 path[0] = address(this);
1550 path[1] = pcsV2Router.WETH();
1551
1552 _approve(address(this), address(pcsV2Router), tokenAmount);
1553
1554
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1567

low SEVERITY

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

Source File

- Token.sol

Locations

```
1566 address[] memory path = new address[](2);
1567 path[0] = pcsV2Router.WETH();
1568 path[1] = address(this);
1569
1570 // make the swap
1571
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1568

low SEVERITY

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

Source File

- Token.sol

Locations

```
1567 path[0] = pcsV2Router.WETH();
1568 path[1] = address(this);
1569
1570 // make the swap
1571 pcsV2Router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: amount}(
1572
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1581

low SEVERITY

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

Source File

- Token.sol

Locations

```
1580     address[] memory path = new address[] (3);  
1581     path[0] = address(this);  
1582     path[1] = pcsV2Router.WETH();  
1583     path[2] = rewardToken;  
1584  
1585
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1582

low SEVERITY

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

Source File

- Token.sol

Locations

```
1581 path[0] = address(this);
1582 path[1] = pcsV2Router.WETH();
1583 path[2] = rewardToken;
1584
1585 _approve(address(this), address(pcsV2Router), tokenAmount);
1586
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1583

low SEVERITY

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

Source File

- Token.sol

Locations

```
1582 path[1] = pcsV2Router.WETH();  
1583 path[2] = rewardToken;  
1584  
1585 _approve(address(this), address(pcsV2Router), tokenAmount);  
1586  
1587
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1962

low SEVERITY

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

Source File

- Token.sol

Locations

```
1961
1962     address account = tokenHoldersMap.keys[_lastProcessedIndex];
1963
1964     if (canAutoClaim(lastClaimTimes[account])) {
1965         if (processAccount(payable(account), true)) {
1966
```

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