



RewardTax

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
RewardTax	REWARD	Binance Smart Chain

Addresses

Contract address	0xe552bbA3040D31Aca73880fbd400A70C9B870495
Contract deployer address	0xee48e87f570E4D7D28b6Af21E704713442bC2407

Project Website

<https://rewardtax.live/>

Codebase

<https://bscscan.com/address/0xe552bbA3040D31Aca73880fbd400A70C9B870495#code>

SUMMARY

RewardTax is a multi-chain ecosystem including RSWAP, RBRIDGE, Negative tax (Tax as a Reward#TaaR), NFT Marketplace, and Staking on BSC.

Contract Summary

Documentation Quality

RewardTax 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 RewardTax with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 650, 662, 680, 915, 938, 971, 973, 994, 995, 1020, 1022, 1071, 1175, 1207, 1285, 1293, 1294, 1296, 1309, 1314, 1317, 1318, 1321, 1338, 1341, 1342, 1355, 1358, 1359, 1378, 1380, 1394, 1398, 1403, 1403 and 1404.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 10, 82, 329, 392, 419, 504, 589, 707, 737 and 1120.
- SWC-110 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 1163, 1167 and 1313.

CONCLUSION

We have audited the RewardTax project released on December 2022 to discover issues and identify potential security vulnerabilities in RewardTax 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 RewardTax 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 public state variable with array type causing reachable exception by default and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
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
Assert Violation	SWC-110	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegate calls should only be allowed to trusted addresses.	PASS
DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS

Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
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
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

SMART CONTRACT ANALYSIS

Started	Saturday Dec 24 2022 10:39:24 GMT+0000 (Coordinated Universal Time)
Finished	Sunday Dec 25 2022 19:10:54 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	RewardTax.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-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
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SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-110	PUBLIC STATE VARIABLE WITH ARRAY TYPE CAUSING REACHABLE EXCEPTION BY DEFAULT.	low	acknowledged
SWC-110	PUBLIC STATE VARIABLE WITH ARRAY TYPE CAUSING REACHABLE EXCEPTION BY DEFAULT.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 650

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
649     ) internal {
650         uint256 newAllowance = token.allowance(address(this), spender) + value;
651         _callOptionalReturn(token, abi.encodeWithSelector(token.approve.selector, spender,
newAllowance));
652     }
653
654
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 662

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
661     require(oldAllowance >= value, "SafeERC20: decreased allowance below zero");
662     uint256 newAllowance = oldAllowance - value;
663     _callOptionalReturn(token, abi.encodeWithSelector(token.approve.selector, spender,
newAllowance));
664 }
665 }
666
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 680

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
679     uint256 nonceAfter = token.nonces(owner);
680     require(nonceAfter == nonceBefore + 1, "SafeERC20: permit did not succeed");
681   }
682
683   /**
684
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 915

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
914     address owner = _msgSender();
915     _approve(owner, spender, allowance(owner, spender) + addedValue);
916     return true;
917 }
918
919
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 938

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
937 unchecked {  
938   _approve(owner, spender, currentAllowance - subtractedValue);  
939 }  
940  
941 return true;  
942
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 971

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
970     unchecked {
971         _balances[from] = fromBalance - amount;
972     }
973     _balances[to] += amount;
974
975
```


SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 973

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
972  }
973  _balances[to] += amount;
974
975  emit Transfer(from, to, amount);
976
977
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 994

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
993
994   _totalSupply += amount;
995   _balances[account] += amount;
996   emit Transfer(address(0), account, amount);
997
998
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 995

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
994  _totalSupply += amount;  
995  _balances[account] += amount;  
996  emit Transfer(address(0), account, amount);  
997  
998  _afterTokenTransfer(address(0), account, amount);  
999
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1020

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1019     unchecked {  
1020         _balances[account] = accountBalance - amount;  
1021     }  
1022     _totalSupply -= amount;  
1023  
1024
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 1022

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1021     }  
1022     _totalSupply -= amount;  
1023  
1024     emit Transfer(account, address(0), amount);  
1025  
1026
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1071

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1070 unchecked {  
1071   _approve(owner, spender, currentAllowance - amount);  
1072 }  
1073 }  
1074 }  
1075
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1175

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1174
1175  uint256 constant public DIVISOR = 2**128;
1176
1177  constructor(address taxAccount, uint256 maxTaxAmount, address swapRouterAddress,
1178  address busd, uint256 buyRewardAmount, uint256 preMint) ERC20("RewardTax", "REWARD") {
1179  require(taxAccount != address(0), "taxAccount_ can't be the zero address");
1179
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1207

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1206     emit AddWhitelist(_msgSender());
1207     _mint(msg.sender, preMint * 10 ** decimals());
1208 }
1209
1210 receive() external payable nonReentrant {
1211
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1285

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1284 function _addDividend(uint256 amount, bool _isBuy) internal {
1285     pendingSwapAmount = pendingSwapAmount + amount;
1286
1287     if(pendingSwapAmount > 10000 && !_isBuy && swapEnabled) {
1288         IERC20 rewardToken = IERC20(dividendToken);
1289     }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1293

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1292     uint256 updatedBalance = rewardToken.balanceOf(address(this));
1293     uint256 balanceDifference = ((updatedBalance - oldBalance)/2) * DIVISOR;
1294     totalRewardShare = totalRewardShare + (balanceDifference / (totalSupply() -
balanceOf(poolAddress) - balanceOf(address(this)) ));
1295     pendingSwapAmount = 0;
1296     rewardToken.safeTransfer(taxAddress, ((updatedBalance - oldBalance)/2));
1297
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1294

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1293     uint256 balanceDifference = ((updatedBalance - oldBalance)/2) * DIVISOR;
1294     totalRewardShare = totalRewardShare + (balanceDifference / (totalSupply() -
balanceOf(poolAddress) - balanceOf(address(this)) ));
1295     pendingSwapAmount = 0;
1296     rewardToken.safeTransfer(taxAddress, ((updatedBalance - oldBalance)/2));
1297 }
1298
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1296

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1295     pendingSwapAmount = 0;
1296     rewardToken.safeTransfer(taxAddress, ((updatedBalance - oldBalance)/2));
1297     }
1298     catch Error(string memory){
1299
1300
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1309

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1308   if(payoutEnabled) {
1309     for(uint256 i=0; i<userCount; i++) {
1310       if(userCtr == holders.length) {
1311         userCtr = 0;
1312       }
1313     }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1314

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1313     address userAddress = holders[userCtr];
1314     uint256 claimableRate = totalRewardShare - rewardShareClaimed[userAddress];
1315     if(claimableRate > 0) {
1316         uint256 userBalance = IERC20(address(this)).balanceOf(userAddress);
1317         rewardShareClaimed[userAddress] = rewardShareClaimed[userAddress] + claimableRate;
1318     }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1317

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1316     uint256 userBalance = IERC20(address(this)).balanceOf(userAddress);
1317     rewardShareClaimed[userAddress] = rewardShareClaimed[userAddress] + claimableRate;
1318     IERC20(dividendToken).safeTransfer(userAddress ,(userBalance *
claimableRate)/DIVISOR);
1319
1320 }
1321
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1318

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1317     rewardShareClaimed[userAddress] = rewardShareClaimed[userAddress] + claimableRate;
1318     IERC20(dividendToken).safeTransfer(userAddress ,(userBalance *
claimableRate)/DIVISOR);
1319
1320     }
1321     userCtr++;
1322
```


SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1321

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1320 }  
1321 userCtr++;  
1322 }  
1323 }  
1324  
1325
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1338

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1337 //do the claim for the user
1338 uint256 claimableRate = totalRewardShare - rewardShareClaimed[userAddress];
1339 uint256 userBalance = IERC20(address(this)).balanceOf(userAddress);
1340 if(claimableRate > 0 && userBalance > 0) {
1341     rewardShareClaimed[userAddress] = rewardShareClaimed[userAddress] + claimableRate;
1342 }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1341

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1340     if(claimableRate > 0 && userBalance > 0) {
1341         rewardShareClaimed[userAddress] = rewardShareClaimed[userAddress] + claimableRate;
1342         IERC20(dividendToken).safeTransfer(userAddress ,(userBalance *
claimableRate)/DIVISOR);
1343     }
1344 }
1345
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1342

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1341     rewardShareClaimed[userAddress] = rewardShareClaimed[userAddress] + claimableRate;  
1342     IERC20(dividendToken).safeTransfer(userAddress ,(userBalance *  
claimableRate)/DIVISOR);  
1343     }  
1344     }  
1345     else{  
1346
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1355

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1354 //do the claim for the user
1355 uint256 claimableRate = totalRewardShare - rewardShareClaimed[userAddress];
1356 uint256 userBalance = IERC20(address(this)).balanceOf(userAddress);
1357 if(claimableRate > 0 && userBalance > 0) {
1358     rewardShareClaimed[userAddress] = rewardShareClaimed[userAddress] + claimableRate;
1359 }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1358

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1357     if(claimableRate > 0 && userBalance > 0) {
1358         rewardShareClaimed[userAddress] = rewardShareClaimed[userAddress] + claimableRate;
1359         IERC20(dividendToken).safeTransfer(userAddress ,(userBalance *
claimableRate)/DIVISOR);
1360     }
1361 }
1362
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1359

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1358     rewardShareClaimed[userAddress] = rewardShareClaimed[userAddress] + claimableRate;
1359     IERC20(dividendToken).safeTransfer(userAddress ,(userBalance *
claimableRate)/DIVISOR);
1360     }
1361     }
1362
1363
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1378

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1377 function _rewardUser(address userAddress, uint256 amount) internal {
1378     uint256 rewardAmount = (buyReward * amount)/100;
1379     //send user the reward from current address
1380     if(balanceOf(address(this)) - pendingSwapAmount >= rewardAmount) {
1381         _transfer(address(this), userAddress, rewardAmount);
1382     }
```


SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1380

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1379 //send user the reward from current address
1380 if(balanceOf(address(this)) - pendingSwapAmount >= rewardAmount) {
1381     _transfer(address(this), userAddress, rewardAmount);
1382     emit RewardUser(userAddress, rewardAmount);
1383 }
1384
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1394

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1393     require(amount >= 10000, "Amount too low");
1394     uint256 taxAmount = (buyTax * amount) / 100;
1395     _transfer(from , address(this), taxAmount);
1396     _addDividend(taxAmount, true);
1397     _rewardUser(to, amount);
1398
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1398

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1397  _rewardUser(to, amount);
1398  amount = amount - taxAmount;
1399  }
1400  else if(to == poolAddress) {
1401    //Add sellTax
1402
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1403

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1402   require(amount >= 10000, "Amount too low");
1403   uint256 taxAmount = (sellTax * amount) / 100;
1404   amount = amount - taxAmount;
1405   _transfer(from , address(this), taxAmount);
1406   _addDividend(taxAmount, false);
1407
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1404

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1403     uint256 taxAmount = (sellTax * amount) / 100;
1404     amount = amount - taxAmount;
1405     _transfer(from , address(this), taxAmount);
1406     _addDividend(taxAmount, false);
1407 }
1408
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 10

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- RewardTax.sol

Locations

```
9
10  pragma solidity ^0.8.0;
11
12  /**
13   * @dev Contract module that helps prevent reentrant calls to a function.
14
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 82

low SEVERITY

The current pragma Solidity directive is `^0.8.1`. 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

- RewardTax.sol

Locations

```
81
82  pragma solidity ^0.8.1;
83
84  /**
85   * @dev Collection of functions related to the address type
86
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 329

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- RewardTax.sol

Locations

```
328
329  pragma solidity ^0.8.0;
330
331  /**
332   * @dev Interface of the ERC20 Permit extension allowing approvals to be made via
   signatures, as defined in
333
```


SWC-103 | A FLOATING PRAGMA IS SET.

LINE 392

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- RewardTax.sol

Locations

```
391
392  pragma solidity ^0.8.0;
393
394  /**
395   * @dev Provides information about the current execution context, including the
396
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 419

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- RewardTax.sol

Locations

```
418
419  pragma solidity ^0.8.0;
420
421
422  /**
423
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 504

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- RewardTax.sol

Locations

```
503
504  pragma solidity ^0.8.0;
505
506  /**
507   * @dev Interface of the ERC20 standard as defined in the EIP.
508
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 589

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- RewardTax.sol

Locations

```
588
589  pragma solidity ^0.8.0;
590
591
592
593
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 707

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- RewardTax.sol

Locations

```
706
707  pragma solidity ^0.8.0;
708
709
710  /**
711
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 737

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- RewardTax.sol

Locations

```
736  
737  pragma solidity ^0.8.0;  
738  
739  
740  
741
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 1120

low SEVERITY

The current pragma Solidity directive is ""^0.8.4"". 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

- RewardTax.sol

Locations

```
1119
1120  pragma solidity ^0.8.4;
1121
1122
1123
1124
```

SWC-110 | PUBLIC STATE VARIABLE WITH ARRAY TYPE CAUSING REACHABLE EXCEPTION BY DEFAULT.

LINE 1163

low SEVERITY

The public state variable "swapPath" in "RewardTax" contract has type "address[]" and can cause an exception in case of use of invalid array index value.

Source File

- RewardTax.sol

Locations

```
1162     bool public payoutEnabled;  
1163     address[] public swapPath;  
1164  
1165     mapping(address => uint256) public rewardShareClaimed;  
1166  
1167
```


SWC-110 | PUBLIC STATE VARIABLE WITH ARRAY TYPE CAUSING REACHABLE EXCEPTION BY DEFAULT.

LINE 1167

low SEVERITY

The public state variable "holders" in "RewardTax" contract has type "address[]" and can cause an exception in case of use of invalid array index value.

Source File

- RewardTax.sol

Locations

```
1166
1167  address[] public holders;
1168  mapping(address => bool) public isHolder;
1169  address public poolAddress;
1170  mapping(address => bool) public blacklist;
1171
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1313

low SEVERITY

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

Source File

- RewardTax.sol

Locations

```
1312     }
1313     address userAddress = holders[userCtr];
1314     uint256 claimableRate = totalRewardShare - rewardShareClaimed[userAddress];
1315     if(claimableRate > 0) {
1316         uint256 userBalance = IERC20(address(this)).balanceOf(userAddress);
1317     }
```

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