



eVault

# Smart Contract Audit Report

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## Disclaimer

## About Us

# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
eVault	EVLТ	Binance Smart Chain

## Addresses

Contract address	0xE34Af939a75223571ac818f0958b67cba48cd01
Contract deployer address	0x7F8C481f359Bb7fcb09aCf6a4a67a28F8FE37995

## Project Website

<https://www.evaultproject.com/>

## Codebase

<https://bscscan.com/address/0xE34Af939a75223571ac818f0958b67cba48cd01#code>

# SUMMARY

One of the primary issues with DeFi right now is the need for users to utilize multiple different platforms to cover the full range of DeFi Services. The eVault Platform will solve that problem by serving as an integrated All-In-One (AIO) DeFi platform. The eVault Platform integrates many different DeFi services, including a staking platform, a launchpad, DEX, P2P swaps, and other utilities as we evolve. The eVault Platform is in advanced stages of development and will go live in Q2 of 2023.

## Contract Summary

### Documentation Quality

eVault 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 eVault 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 825, 834 and 840.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 579, 602, 635, 638, 660, 663, 689, 691, 741, 861, 880, 912, 913, 914, 915, 930, 931, 932, 933, 994, 997, 1000, 1005, 1008, 1015, 1016, 1017, 1018, 1019, 1022, 1023 and 1024.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 7, 27, 125, 174, 201, 286, 371, 401 and 791.
- SWC-110 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 814, 817, 853, 855, 868, 873, 917, 935, 1014, 1021, 1036 and 1037.

## CONCLUSION

We have audited the eVault project released on December 2022 to discover issues and identify potential security vulnerabilities in eVault 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 code on eVault smart contract 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, 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.	<b>ISSUE FOUND</b>
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	<b>ISSUE FOUND</b>
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	<b>PASS</b>
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	<b>ISSUE FOUND</b>
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	<b>PASS</b>
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	<b>PASS</b>
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	<b>PASS</b>
Assert Violation	SWC-110	Properly functioning code should never reach a failing assert statement.	<b>ISSUE FOUND</b>
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	<b>PASS</b>
Delegate call to Untrusted Callee	SWC-112	Delegate calls should only be allowed to trusted addresses.	<b>PASS</b>
DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	<b>PASS</b>
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	<b>PASS</b>

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 10 2022 03:44:20 GMT+0000 (Coordinated Universal Time)
Finished	Sunday Dec 11 2022 17:12:41 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	EVAULTTOKEN.sol

## Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged

SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-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-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 579

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
578     address owner = _msgSender();
579     _approve(owner, spender, allowance(owner, spender) + addedValue);
580     return true;
581 }
582
583
```

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

LINE 602

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
601     unchecked {
602         _approve(owner, spender, currentAllowance - subtractedValue);
603     }
604
605     return true;
606
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 635

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
634 unchecked {
635   _balances[from] = fromBalance - amount;
636   // Overflow not possible: the sum of all balances is capped by totalSupply, and the
sum is preserved by
637   // decrementing then incrementing.
638   _balances[to] += amount;
639 }
```

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

LINE 638

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
637 // decrementing then incrementing.  
638 _balances[to] += amount;  
639 }  
640  
641 emit Transfer(from, to, amount);  
642
```

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

LINE 660

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
659
660  _totalSupply += amount;
661  unchecked {
662    // Overflow not possible: balance + amount is at most totalSupply + amount, which
    is checked above.
663    _balances[account] += amount;
664
```



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

LINE 663

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
662 // Overflow not possible: balance + amount is at most totalSupply + amount, which
is checked above.
663 _balances[account] += amount;
664 }
665 emit Transfer(address(0), account, amount);
666
667
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 689

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
688     unchecked {
689         _balances[account] = accountBalance - amount;
690         // Overflow not possible: amount <= accountBalance <= totalSupply.
691         _totalSupply -= amount;
692     }
693
```

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

LINE 691

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
690 // Overflow not possible: amount <= accountBalance <= totalSupply.  
691 _totalSupply -= amount;  
692 }  
693  
694 emit Transfer(account, address(0), amount);  
695
```

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

LINE 741

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
740     unchecked {  
741         _approve(owner, spender, currentAllowance - amount);  
742     }  
743 }  
744 }  
745
```

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

LINE 861

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
860  stakingWallet = payable(_staking);
861  _mint(msg.sender, _supply * 10 ** decimals());
862  excluded[marketingWallet] = true;
863  excluded[msg.sender] = true;
864  excluded[devWallet] = true;
865
```

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

LINE 861

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
860     stakingWallet = payable(_staking);
861     _mint(msg.sender, _supply * 10 ** decimals());
862     excluded[marketingWallet] = true;
863     excluded[msg.sender] = true;
864     excluded[devWallet] = true;
865
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 880

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
879     sellFeeAmt = 80;
880     swapTreshold = _supply * 10 ** decimals() / 1_000_000; // 0.0001% of the supply
881
882   }
883
884
```

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

LINE 880

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
879     sellFeeAmt = 80;
880     swapTreshold = _supply * 10 ** decimals() / 1_000_000; // 0.0001% of the supply
881
882   }
883
884
```



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

LINE 880

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
879     sellFeeAmt = 80;  
880     swapTreshold = _supply * 10 ** decimals() / 1_000_000; // 0.0001% of the supply  
881  
882     }  
883  
884
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 912

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
911  function setBuyFee(uint32 _marketing, uint32 _dev, uint32 _staking) external
onlyOwner {
912  uint32 total = _marketing + _dev + _staking;
913  uint32 marketingPercent = (_marketing * 1000) / total;
914  uint32 devPercent = (_dev * 1000) / total;
915  uint32 stakingPercent = (_staking * 1000) / total;
916
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 912

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
911  function setBuyFee(uint32 _marketing, uint32 _dev, uint32 _staking) external
onlyOwner {
912  uint32 total = _marketing + _dev + _staking;
913  uint32 marketingPercent = (_marketing * 1000) / total;
914  uint32 devPercent = (_dev * 1000) / total;
915  uint32 stakingPercent = (_staking * 1000) / total;
916
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 913

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
912 uint32 total = _marketing + _dev + _staking;  
913 uint32 marketingPercent = (_marketing * 1000) / total;  
914 uint32 devPercent = (_dev * 1000) / total;  
915 uint32 stakingPercent = (_staking * 1000) / total;  
916  
917
```

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

LINE 913

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
912 uint32 total = _marketing + _dev + _staking;
913 uint32 marketingPercent = (_marketing * 1000) / total;
914 uint32 devPercent = (_dev * 1000) / total;
915 uint32 stakingPercent = (_staking * 1000) / total;
916
917
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 914

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
913  uint32 marketingPercent = (_marketing * 1000) / total;  
914  uint32 devPercent = (_dev * 1000) / total;  
915  uint32 stakingPercent = (_staking * 1000) / total;  
916  
917  fees[0] = FeeStruct({  
918
```

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

LINE 914

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
913  uint32 marketingPercent = (_marketing * 1000) / total;
914  uint32 devPercent = (_dev * 1000) / total;
915  uint32 stakingPercent = (_staking * 1000) / total;
916
917  fees[0] = FeeStruct({
918
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 915

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
914 uint32 devPercent = (_dev * 1000) / total;
915 uint32 stakingPercent = (_staking * 1000) / total;
916
917 fees[0] = FeeStruct({
918     marketing: marketingPercent,
919
```



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

LINE 915

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
914  uint32 devPercent = (_dev * 1000) / total;
915  uint32 stakingPercent = (_staking * 1000) / total;
916
917  fees[0] = FeeStruct({
918    marketing: marketingPercent,
919  });
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 930

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
929  function setSellFee(uint32 _marketing, uint32 _dev, uint32 _staking) external
onlyOwner {
930  uint32 total = _marketing + _dev + _staking;
931  uint32 marketingPercent = (_marketing * 1000) / total;
932  uint32 devPercent = (_dev * 1000) / total;
933  uint32 stakingPercent = (_staking * 1000) / total;
934
```

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 930

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
929  function setSellFee(uint32 _marketing, uint32 _dev, uint32 _staking) external
onlyOwner {
930  uint32 total = _marketing + _dev + _staking;
931  uint32 marketingPercent = (_marketing * 1000) / total;
932  uint32 devPercent = (_dev * 1000) / total;
933  uint32 stakingPercent = (_staking * 1000) / total;
934
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 931

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
930 uint32 total = _marketing + _dev + _staking;
931 uint32 marketingPercent = (_marketing * 1000) / total;
932 uint32 devPercent = (_dev * 1000) / total;
933 uint32 stakingPercent = (_staking * 1000) / total;
934
935
```

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

LINE 931

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
930 uint32 total = _marketing + _dev + _staking;
931 uint32 marketingPercent = (_marketing * 1000) / total;
932 uint32 devPercent = (_dev * 1000) / total;
933 uint32 stakingPercent = (_staking * 1000) / total;
934
935
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 932

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
931 uint32 marketingPercent = (_marketing * 1000) / total;
932 uint32 devPercent = (_dev * 1000) / total;
933 uint32 stakingPercent = (_staking * 1000) / total;
934
935 fees[1] = FeeStruct({
936
```

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

LINE 932

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
931  uint32 marketingPercent = (_marketing * 1000) / total;
932  uint32 devPercent = (_dev * 1000) / total;
933  uint32 stakingPercent = (_staking * 1000) / total;
934
935  fees[1] = FeeStruct({
936
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 933

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
932  uint32 devPercent = (_dev * 1000) / total;  
933  uint32 stakingPercent = (_staking * 1000) / total;  
934  
935  fees[1] = FeeStruct({  
936  marketing: marketingPercent,  
937
```



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

LINE 933

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
932 uint32 devPercent = (_dev * 1000) / total;
933 uint32 stakingPercent = (_staking * 1000) / total;
934
935 fees[1] = FeeStruct({
936 marketing: marketingPercent,
937
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 994

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
993     if (_isSell) {  
994         taxAmt = (_amount * sellFeeAmt) / 1000;  
995     }  
996     else {  
997         taxAmt = (_amount * buyFeeAmt) / 1000;  
998     }
```

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

LINE 994

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
993     if (!_isSell) {  
994         taxAmt = (_amount * sellFeeAmt) / 1000;  
995     }  
996     else {  
997         taxAmt = (_amount * buyFeeAmt) / 1000;  
998     }
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 997

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
996     else {
997         taxAmt = (_amount * buyFeeAmt) / 1000;
998         buyFeesCollected = taxAmt;
999     }
1000     uint remaining = _amount - taxAmt;
1001
```

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

LINE 997

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
996     else {
997         taxAmt = (_amount * buyFeeAmt) / 1000;
998         buyFeesCollected = taxAmt;
999     }
1000     uint remaining = _amount - taxAmt;
1001
```

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

LINE 1000

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
999  }
1000  uint remaining = _amount - taxAmt;
1001  super._transfer(_from, address(this), taxAmt);
1002  super._transfer(_from, _to, remaining);
1003  }
1004
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1005

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1004 function processTax() internal swapLocked() {
1005     uint buyShare = (buyFeesCollected * 1e8) / balanceOf(address(this));
1006     uint balanceBefore = address(this).balance;
1007     swapForBnb(balanceOf(address(this)));
1008     uint swapped = address(this).balance - balanceBefore;
1009 }
```

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

LINE 1005

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1004 function processTax() internal swapLocked() {
1005     uint buyShare = (buyFeesCollected * 1e8) / balanceOf(address(this));
1006     uint balanceBefore = address(this).balance;
1007     swapForBnb(balanceOf(address(this)));
1008     uint swapped = address(this).balance - balanceBefore;
1009 }
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1008

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1007 swapForBnb(balanceOf(address(this)));  
1008 uint swapped = address(this).balance - balanceBefore;  
1009 uint toDev;  
1010 uint toMarketing;  
1011 uint toStaking;  
1012
```

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

LINE 1015

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
1014     current = fees[0];
1015     uint buyCut = (swapped * buyShare) / 1e8;
1016     toDev = (buyCut * current.dev) / 1000;
1017     toMarketing = (buyCut * current.marketing) / 1000;
1018     toStaking = (buyCut - toMarketing - toDev);
1019
```

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

LINE 1015

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
1014     current = fees[0];
1015     uint buyCut = (swapped * buyShare) / 1e8;
1016     toDev = (buyCut * current.dev) / 1000;
1017     toMarketing = (buyCut * current.marketing) / 1000;
1018     toStaking = (buyCut - toMarketing - toDev);
1019
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1016

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1015  uint buyCut = (swapped * buyShare) / 1e8;
1016  toDev = (buyCut * current.dev) / 1000;
1017  toMarketing = (buyCut * current.marketing) / 1000;
1018  toStaking = (buyCut - toMarketing - toDev);
1019  swapped -= buyCut;
1020
```

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

LINE 1016

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1015  uint buyCut = (swapped * buyShare) / 1e8;
1016  toDev = (buyCut * current.dev) / 1000;
1017  toMarketing = (buyCut * current.marketing) / 1000;
1018  toStaking = (buyCut - toMarketing - toDev);
1019  swapped -= buyCut;
1020
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1017

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1016   toDev = (buyCut * current.dev) / 1000;
1017   toMarketing = (buyCut * current.marketing) / 1000;
1018   toStaking = (buyCut - toMarketing - toDev);
1019   swapped -= buyCut;
1020   }
1021
```

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

LINE 1017

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1016   toDev = (buyCut * current.dev) / 1000;
1017   toMarketing = (buyCut * current.marketing) / 1000;
1018   toStaking = (buyCut - toMarketing - toDev);
1019   swapped -= buyCut;
1020   }
1021
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1018

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1017   toMarketing = (buyCut * current.marketing) / 1000;
1018   toStaking = (buyCut - toMarketing - toDev);
1019   swapped -= buyCut;
1020   }
1021   current = fees[1];
1022
```



# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1018

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1017   toMarketing = (buyCut * current.marketing) / 1000;
1018   toStaking = (buyCut - toMarketing - toDev);
1019   swapped -= buyCut;
1020   }
1021   current = fees[1];
1022
```

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

LINE 1019

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1018   toStaking = (buyCut - toMarketing - toDev);
1019   swapped -= buyCut;
1020   }
1021   current = fees[1];
1022   toDev += (swapped * current.dev) / 1000;
1023
```

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

LINE 1022

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1021     current = fees[1];
1022     toDev += (swapped * current.dev) / 1000;
1023     toMarketing += (swapped * current.marketing) / 1000;
1024     toStaking += (swapped * current.staking) / 1000;
1025     (bool dev,) = devWallet.call{value: toDev}("");
1026
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1022

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1021     current = fees[1];
1022     toDev += (swapped * current.dev) / 1000;
1023     toMarketing += (swapped * current.marketing) / 1000;
1024     toStaking += (swapped * current.staking) / 1000;
1025     (bool dev,) = devWallet.call{value: toDev}("");
1026
```

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

LINE 1022

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1021     current = fees[1];
1022     toDev += (swapped * current.dev) / 1000;
1023     toMarketing += (swapped * current.marketing) / 1000;
1024     toStaking += (swapped * current.staking) / 1000;
1025     (bool dev,) = devWallet.call{value: toDev}("");
1026
```

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

LINE 1023

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1022 toDev += (swapped * current.dev) / 1000;
1023 toMarketing += (swapped * current.marketing) / 1000;
1024 toStaking += (swapped * current.staking) / 1000;
1025 (bool dev,) = devWallet.call{value: toDev}("");
1026 (bool market,) = marketingWallet.call{value: toMarketing}("");
1027
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1023

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1022 toDev += (swapped * current.dev) / 1000;
1023 toMarketing += (swapped * current.marketing) / 1000;
1024 toStaking += (swapped * current.staking) / 1000;
1025 (bool dev,) = devWallet.call{value: toDev}("");
1026 (bool market,) = marketingWallet.call{value: toMarketing}("");
1027
```

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

LINE 1023

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1022   toDev += (swapped * current.dev) / 1000;
1023   toMarketing += (swapped * current.marketing) / 1000;
1024   toStaking += (swapped * current.staking) / 1000;
1025   (bool dev,) = devWallet.call{value: toDev}("");
1026   (bool market,) = marketingWallet.call{value: toMarketing}("");
1027
```



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

LINE 1024

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1023 toMarketing += (swapped * current.marketing) / 1000;
1024 toStaking += (swapped * current.staking) / 1000;
1025 (bool dev,) = devWallet.call{value: toDev}("");
1026 (bool market,) = marketingWallet.call{value: toMarketing}("");
1027 (bool staking,) = stakingWallet.call{value: toStaking}("");
1028
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1024

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1023   toMarketing += (swapped * current.marketing) / 1000;
1024   toStaking += (swapped * current.staking) / 1000;
1025   (bool dev,) = devWallet.call{value: toDev}("");
1026   (bool market,) = marketingWallet.call{value: toMarketing}("");
1027   (bool staking,) = stakingWallet.call{value: toStaking}("");
1028
```

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

LINE 1024

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
1023   toMarketing += (swapped * current.marketing) / 1000;
1024   toStaking += (swapped * current.staking) / 1000;
1025   (bool dev,) = devWallet.call{value: toDev}("");
1026   (bool market,) = marketingWallet.call{value: toMarketing}("");
1027   (bool staking,) = stakingWallet.call{value: toStaking}("");
1028
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

### low SEVERITY

The current pragma Solidity directive is "">=0.5.0"". 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

- EVAULTTOKEN.sol

### Locations

```
6
7  pragma solidity >=0.5.0;
8
9  interface IUniswapV2Factory {
10   event PairCreated(address indexed token0, address indexed token1, address pair,
uint);
11
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 27

### low SEVERITY

The current pragma Solidity directive is "">=0.6.2"". 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

- EVAULTTOKEN.sol

### Locations

```
26
27  pragma solidity >=0.6.2;
28
29  interface IUniswapV2Router01 {
30  function factory() external pure returns (address);
31
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 125

### low SEVERITY

The current pragma Solidity directive is "">=0.6.2"". 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

- EVAULTTOKEN.sol

### Locations

```
124
125  pragma solidity >=0.6.2;
126
127
128  interface IUniswapV2Router02 is IUniswapV2Router01 {
129
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 174

### 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

- EVAULTTOKEN.sol

### Locations

```
173
174  pragma solidity ^0.8.0;
175
176  /**
177   * @dev Provides information about the current execution context, including the
178
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 201

### 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

- EVAULTTOKEN.sol

### Locations

```
200
201  pragma solidity ^0.8.0;
202
203
204  /**
205
```



## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 286

### 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

- EVAULTTOKEN.sol

### Locations

```
285
286  pragma solidity ^0.8.0;
287
288  /**
289   * @dev Interface of the ERC20 standard as defined in the EIP.
290
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 371

### 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

- EVAULTTOKEN.sol

### Locations

```
370
371  pragma solidity ^0.8.0;
372
373
374  /**
375
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 401

### 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

- EVAULTTOKEN.sol

### Locations

```
400
401  pragma solidity ^0.8.0;
402
403
404
405
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 791

### low SEVERITY

The current pragma Solidity directive is `^0.8`. 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

- EVAULTTOKEN.sol

### Locations

```
790
791  pragma solidity ^0.8;
792
793
794
795
```

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

LINE 825

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
824
825  uint256 buyFeesCollected;
826
827  // The wierd ordering is for var packing. Each time we skip a line we change slots.
828  /// @notice The address that collects the marketing tax
829
```

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

LINE 834

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
833 address payable public devWallet;
834 bool inSwap;
835
836 /// @notice The address that collects the staking tax
837 address payable public stakingWallet;
838
```

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

LINE 840

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
839
840 address wbnb;
841
842 modifier swapLocked() {
843     inSwap = true;
844
```

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

LINE 814

### low SEVERITY

The public state variable "fees" in "EVAULTTOKEN" contract has type "struct EVAULTTOKEN.FeeStruct[2]" and can cause an exception in case of use of invalid array index value.

### Source File

- EVAULTTOKEN.sol

### Locations

```
813    /// @notice The fee structure repartition. Index 0 contains the buy fee, index 1
      contains the sell fees.
814    FeeStruct[2] public fees;
815
816    /// @notice All the routers of the supported DEXes
817    IUniswapV2Router02[] public routers;
```



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

LINE 817

### low SEVERITY

The public state variable "routers" in "EVAULTTOKEN" contract has type "contract IUniswapV2Router02[]" and can cause an exception in case of use of invalid array index value.

### Source File

- EVAULTTOKEN.sol

### Locations

```
816  /// @notice All the routers of the supported DEXes
817  IUniswapV2Router02[] public routers;
818
819  /// @notice The router used by the contract for swapping the taxes
820  IUniswapV2Router02 public preferredRouter;
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 853

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
852  _approve(address(this), 0x10ED43C718714eb63d5aA57B78B54704E256024E,  
type(uint256).max);  
853  address firstPair =  
IUniswapV2Factory(routers[0].factory()).createPair(address(this), routers[0].WETH());  
854  isLP[firstPair] = true;  
855  wbnb = routers[0].WETH();  
856  
857
```

# SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 853

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
852  _approve(address(this), 0x10ED43C718714eb63d5aA57B78B54704E256024E,  
type(uint256).max);  
853  address firstPair =  
IUniswapV2Factory(routers[0].factory()).createPair(address(this), routers[0].WETH());  
854  isLP[firstPair] = true;  
855  wbnb = routers[0].WETH();  
856  
857
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 855

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
854  isLP[firstPair] = true;
855  wbnb = routers[0].WETH();
856
857  // Sets addresses and mints tokens to owner.
858  marketingWallet = payable(_marketing);
859
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 868

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
867 // Sets fees
868 fees[0] = FeeStruct({
869 marketing: 400,
870 dev: 200,
871 staking: 400
872
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 873

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
872     });  
873     fees[1] = FeeStruct({  
874     marketing: 375,  
875     dev: 250,  
876     staking: 375  
877
```

# SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 917

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
916  
917     fees[0] = FeeStruct({  
918         marketing: marketingPercent,  
919         dev: devPercent,  
920         staking: stakingPercent  
921     })
```

# SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 935

## low SEVERITY

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

## Source File

- EVAULTTOKEN.sol

## Locations

```
934
935   fees[1] = FeeStruct({
936     marketing: marketingPercent,
937     dev: devPercent,
938     staking: stakingPercent
939
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1014

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
1013   if(buyShare > 0) {
1014     current = fees[0];
1015     uint buyCut = (swapped * buyShare) / 1e8;
1016     toDev = (buyCut * current.dev) / 1000;
1017     toMarketing = (buyCut * current.marketing) / 1000;
1018   }
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1021

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
1020 }
1021 current = fees[1];
1022 toDev += (swapped * current.dev) / 1000;
1023 toMarketing += (swapped * current.marketing) / 1000;
1024 toStaking += (swapped * current.staking) / 1000;
1025
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1036

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
1035     address[] memory path = new address[](2);
1036     path[0] = address(this);
1037     path[1] = wbnb;
1038
1039     // make the swap
1040
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1037

### low SEVERITY

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

### Source File

- EVAULTTOKEN.sol

### Locations

```
1036 path[0] = address(this);
1037 path[1] = wbnb;
1038
1039 // make the swap
1040 preferredRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(
1041
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn’t say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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## ABOUT US

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