



YourWallet Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
YourWallet	YourWallet	Binance Smart Chain

Addresses

Contract address	0x4AAF59deE18eCc1BbD2BF68b3f7Ba3AF47Eb9CfC
Contract deployer address	0x2e76Af6DDD9C3314BC7f8ed6BB4690326731301e

Project Website

https://yourwallet.live/

Codebase

https://bscscan.com/address/0x4AAF59deE18eCc1BbD2BF68b3f7Ba3AF47Eb9CfC#code

SUMMARY

Unlock the full potential of your digital assets with YourWallet, the fastest EVM wallet that allows for seamless access to your wallet and decentralized apps, all without the need for any additional software installation.

YourWallet: The ultimate web-based crypto wallet solution!

Contract Summary

Documentation Quality

YourWallet 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 YourWallet 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 510, 519, 531, 552, 555, 571, 572, 589, 590, 668, 672 and 767.
- SWC-110 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on line 767.

CONCLUSION

We have audited the YourWallet project released on January 2023 to discover issues and identify potential security vulnerabilities in YourWallet 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 YourWallet 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 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.	PASS
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 Caller	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.	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	Thursday Jan 26 2023 15:05:06 GMT+0000 (Coordinated Universal Time)
Finished	Friday Jan 27 2023 18:01:27 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	YourWallet.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-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 510

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
509
510  _beforeTokenTransfer(address(0), account, amount);
511
512  _totalSupply += amount;
513  _balances[account] += amount;
514
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 519

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
518
519 function _burn(address account, uint256 amount) internal virtual {
520     require(account != address(0), "ERC20: burn from the zero address");
521
522     _beforeTokenTransfer(account, address(0), amount);
523 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 531

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
530
531     emit Transfer(account, address(0), amount);
532
533     _afterTokenTransfer(account, address(0), amount);
534 }
535
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 552

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
551     uint256 amount
552     ) internal virtual {}
553
554     function _afterTokenTransfer(
555         address from,
556
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 555

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
554 function _afterTokenTransfer(  
555     address from,  
556     address to,  
557     uint256 amount  
558 ) internal virtual {}  
559
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 571

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
570
571  uint256 public  marketingFeeOnBuy;
572  uint256 public  marketingFeeOnSell;
573
574  address public  marketingWallet;
575
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 572

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
571  uint256 public  marketingFeeOnBuy;  
572  uint256 public  marketingFeeOnSell;  
573  
574  address public  marketingWallet;  
575  
576
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 589

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
588     address router;  
589     if (block.chainid == 56) {  
590         router = 0x10ED43C718714eb63d5aA57B78B54704E256024E; // BSC Pancake Mainnet Router  
591     } else if (block.chainid == 97) {  
592         router = 0xD99D1c33F9fC3444f8101754aBC46c52416550D1; // BSC Pancake Testnet Router  
593     }
```


SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 590

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
589   if (block.chainid == 56) {  
590       router = 0x10ED43C718714eb63d5aA57B78B54704E256024E; // BSC Pancake Mainnet Router  
591   } else if (block.chainid == 97) {  
592       router = 0xD99D1c33F9fC3444f8101754aBC46c52416550D1; // BSC Pancake Testnet Router  
593   } else if (block.chainid == 1 || block.chainid == 5) {  
594
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 668

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
667     require(!tradingEnabled, "Trading already enabled.");
668     tradingEnabled = true;
669     swapEnabled = true;
670 }
671
672
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 668

low SEVERITY

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

Source File

- YourWallet.sol

Locations

```
667     require(!tradingEnabled, "Trading already enabled.");
668     tradingEnabled = true;
669     swapEnabled = true;
670 }
671
672
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 672

low SEVERITY

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

Source File

- YourWallet.sol

Locations

[illegible]

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 767

low SEVERITY

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

Source File

- YourWallet.sol

Locations

[illegible]

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 767

low SEVERITY

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

Source File

- YourWallet.sol

Locations

[illegible]

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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.