

# Simpl Smart Contract Audit Report



23 Jan 2023



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# AUDITED DETAILS

### Audited Project

Project name	Token ticker	Blockchain	
Simpl	IMPL	Ethereum	

### Addresses

Contract address	0xe853383514939E94EFEF6040a0AC7fdDC3328D4D
Contract deployer address	0x08a151E17EBcD1c191aa78BcCf2427e402d03C9a

### Project Website

#### https://t.me/simplcoin

### Codebase

https://etherscan.io/address/0xe853383514939E94EFEF6040a0AC7fdDC3328D4D#code



# SUMMARY

\$IMPL Coin is an ERC20 token on the Ethereum blockchain. Its motto is simplicity. They strive for speed privacy and simplicity. It shows in the contract.

### Contract Summary

#### **Documentation Quality**

Simpl 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 Simpl 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 673, 674, 675 and 701.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 415, 438, 471, 474, 496, 499, 525, 527, 577, 673, 673, 690, 690, 758, 758, 810, 810, 811 and 811.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 10, 37, 122, 207, 237 and 626.
- 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 782 and 783.



# CONCLUSION

We have audited the Simpl project released on January 2023 to discover issues and identify potential security vulnerabilities in Simpl 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 Simpl smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value. We recommend setting the visibility of state variables explicitly. The default visibility for "feesToTransfer" is internal. Other possible visibility settings are public and private.



# 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 operationsISSUshould be safe from overflows and underflows.FOU	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	
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.	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach aISSUEfailing assert statement.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.	



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	



## **SMART CONTRACT ANALYSIS**

Started	Sunday Jan 22 2023 18:18:38 GMT+0000 (Coordinated Universal Time)		
Finished	Monday Jan 23 2023 06:09:24 GMT+0000 (Coordinated Universal Time		
Mode	Standard		
Main Source File	Simpl.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-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-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-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-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged





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

**LINE 415** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
414 address owner = _msgSender();
415 _approve(owner, spender, allowance(owner, spender) + addedValue);
416 return true;
417 }
418
419
```



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

**LINE 438** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
437 unchecked {
438 _approve(owner, spender, currentAllowance - subtractedValue);
439 }
440
441 return true;
442
```



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

**LINE 471** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
470 unchecked {
471 _balances[from] = fromBalance - amount;
472 // Overflow not possible: the sum of all balances is capped by totalSupply, and the
sum is preserved by
473 // decrementing then incrementing.
474 _balances[to] += amount;
475
```



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

**LINE 474** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
473 // decrementing then incrementing.
474 _balances[to] += amount;
475 }
476
477 emit Transfer(from, to, amount);
478
```



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

**LINE 496** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
495
496 _totalSupply += amount;
497 unchecked {
498 // Overflow not possible: balance + amount is at most totalSupply + amount, which
is checked above.
499 _balances[account] += amount;
500
```



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

**LINE 499** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
498 // Overflow not possible: balance + amount is at most totalSupply + amount, which
is checked above.
499 _balances[account] += amount;
500 }
501 emit Transfer(address(0), account, amount);
502
503
```



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

**LINE 525** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
524 unchecked {
525 _balances[account] = accountBalance - amount;
526 // Overflow not possible: amount <= accountBalance <= totalSupply.
527 _totalSupply -= amount;
528 }
529</pre>
```



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

**LINE 527** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
526 // Overflow not possible: amount <= accountBalance <= totalSupply.
527 _totalSupply -= amount;
528 }
529
530 emit Transfer(account, address(0), amount);
531
```



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

LINE 577

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
576 unchecked {
577 __approve(owner, spender, currentAllowance - amount);
578 }
579 }
580 }
581
```



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

**LINE 673** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
672 // basic characteristics
673 uint256 supply = 1000000 * 10 ** decimals();
674 string tokenName = "Simpl";
675 string tokenSymbol = "IMPL";
676
677
```



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

**LINE 673** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
672 // basic characteristics
673 uint256 supply = 1000000 * 10 ** decimals();
674 string tokenName = "Simpl";
675 string tokenSymbol = "IMPL";
676
677
```



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

**LINE 690** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
689 uint256 private swapThreshold = 100;
690 uint256 private _swapThreshold = swapThreshold * 10 ** decimals();
691
692 // address where the Uniswap v2 Router02 is deployed
693 address public UniswapV2Router02Address =
address(0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D);
694
```



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

**LINE 690** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
689 uint256 private swapThreshold = 100;
690 uint256 private _swapThreshold = swapThreshold * 10 ** decimals();
691
692 // address where the Uniswap v2 Router02 is deployed
693 address public UniswapV2Router02Address =
address(0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D);
694
```



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

**LINE 758** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
757 if (from == uniswapV2Pair && _buyTax > 0) {
758 feesToTransfer = (amount * _buyTax) / 100;
759 }
760 }
761
762
```



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

**LINE 758** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
757 if (from == uniswapV2Pair && _buyTax > 0) {
758 feesToTransfer = (amount * _buyTax) / 100;
759 }
760 }
761
762
```



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

LINE 810

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
809
810 uint256 ethForDev = (ethBalance * _developmentShare) / 100;
811 uint256 ethForMarketing = (ethBalance * _marketingShare) / 100;
812
813 (success,) = address(_developmentAddress).call{value: ethForDev}("");
814
```



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

LINE 810

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
809
810 uint256 ethForDev = (ethBalance * _developmentShare) / 100;
811 uint256 ethForMarketing = (ethBalance * _marketingShare) / 100;
812
813 (success,) = address(_developmentAddress).call{value: ethForDev}("");
814
```



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

LINE 811

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
810 uint256 ethForDev = (ethBalance * _developmentShare) / 100;
811 uint256 ethForMarketing = (ethBalance * _marketingShare) / 100;
812
813 (success,) = address(_developmentAddress).call{value: ethForDev}("");
814 (success,) = address(_marketingAddress).call{value: ethForMarketing}("");
815
```



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

LINE 811

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
810 uint256 ethForDev = (ethBalance * _developmentShare) / 100;
811 uint256 ethForMarketing = (ethBalance * _marketingShare) / 100;
812
813 (success,) = address(_developmentAddress).call{value: ethForDev}("");
814 (success,) = address(_marketingAddress).call{value: ethForMarketing}("");
815
```



LINE 10

#### **IOW 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

- Simpl.sol

#### Locations

9
10 pragma solidity ^0.8.0;
11
12 /\*\*
13 \* @dev Provides information about the current execution context, including the
14



LINE 37

#### **Iow 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

- Simpl.sol

#### Locations

36
37 pragma solidity ^0.8.0;
38
39
40 /\*\*
41



LINE 122

#### **Iow 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

- Simpl.sol

#### Locations

121
122 pragma solidity ^0.8.0;
123
124 /\*\*
125 \* @dev Interface of the ERC20 standard as defined in the EIP.
126



LINE 207

#### **Iow 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

- Simpl.sol

#### Locations

206 207 pragma solidity ^0.8.0; 208 209 210 /\*\* 211



LINE 237

#### **Iow 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

- Simpl.sol

#### Locations

236 237 pragma solidity ^0.8.0; 238 239 240 241



**LINE 626** 

#### **Iow SEVERITY**

The current pragma Solidity directive is ""^0.8.17"". 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

- Simpl.sol

#### Locations

625 626 pragma solidity ^0.8.17; 627 628 629 630



**LINE 673** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
672 // basic characteristics
673 uint256 supply = 1000000 * 10 ** decimals();
674 string tokenName = "Simpl";
675 string tokenSymbol = "IMPL";
676
677
```



**LINE 674** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
673 uint256 supply = 1000000 * 10 ** decimals();
674 string tokenName = "Simpl";
675 string tokenSymbol = "IMPL";
676
677 // buy tax in percentage points (i.e., 5 = 5%)
678
```



**LINE 675** 

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
674 string tokenName = "Simpl";
675 string tokenSymbol = "IMPL";
676
677 // buy tax in percentage points (i.e., 5 = 5%)
678 uint256 private _buyTax = 5;
679
```



**LINE** 701

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

#### Locations

700 //uint256 amountToTransfer; 701 uint256 feesToTransfer; 702 703 constructor() ERC20(tokenName, tokenSymbol) { 704 // create reference to Uniswap v2 router 705



### SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 782

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
781 address[] memory path = new address[](2);
782 path[0] = address(this);
783 path[1] = uniswapV2Router.WETH();
784
785 _approve(address(this), address(uniswapV2Router), tokenAmount);
786
```



### SWC-110 | OUT OF BOUNDS ARRAY ACCESS

**LINE** 783

#### **Iow SEVERITY**

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

#### Source File

- Simpl.sol

```
782 path[0] = address(this);
783 path[1] = uniswapV2Router.WETH();
784
785 _approve(address(this), address(uniswapV2Router), tokenAmount);
786
787
```



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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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