



Volt Inu

Smart Contract Audit Report

TABLE OF CONTENTS

[Audited Details](#)

- Audited Project
- Blockchain
- Addresses
- Project Website
- Codebase

[Summary](#)

- Contract Summary
- Audit Findings Summary
- Vulnerabilities Summary

[Conclusion](#)

[Audit Results](#)

[Smart Contract Analysis](#)

- Detected Vulnerabilities

[Disclaimer](#)

[About Us](#)

AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Volt Inu	VOLT	Binance Smart Chain

Addresses

Contract address	0x7db5af2b9624e1b3b4bb69d6debd9ad1016a58ac
Contract deployer address	0x45f6E219a683c7560D71D0249Fc353F385301B51

Project Website

https://voltinu.in/

Codebase

https://bscscan.com/address/0x7db5af2b9624e1b3b4bb69d6debd9ad1016a58ac#code

SUMMARY

Volt Inu is an ecosystem aimed at becoming a one-stop shop offering DeFi products while bringing profits back to the native token to support its deflationary purpose.

Contract Summary

Documentation Quality

Volt Inu 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 Volt Inu 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 451.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 38, 50, 60, 61, 73, 85, 429, 429, 430, 430, 445, 445, 446, 446, 585, 587, 787, 806, 812 and 587.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 7.
- 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 586, 587, 587, 672, 673, 788, 788, 789 and 790.

CONCLUSION

We have audited the Volt Inu project released on April 2022 to discover issues and identify potential security vulnerabilities in Volt Inu Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the Volt Inu 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. The current pragma Solidity directive is `^0.6.12`. Specifying a fixed compiler version is recommended 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. It is best practice to set the visibility of state variables explicitly. The default visibility for `inSwapAndLiquify` is internal. Other possible visibility settings are public and private.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	ISSUE FOUND
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS

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

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

SMART CONTRACT ANALYSIS

Started	Friday Apr 08 2022 03:54:15 GMT+0000 (Coordinated Universal Time)
Finished	Saturday Apr 09 2022 22:01:47 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	VOLT.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

[illegible]

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 38

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
37  function add(uint256 a, uint256 b) internal pure returns (uint256) {
38      uint256 c = a + b;
39      require(c >= a, "SafeMath: addition overflow");
40
41      return c;
42  }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 50

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
49  require(b <= a, errorMessage);  
50  uint256 c = a - b;  
51  
52  return c;  
53  }  
54
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 60

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
59
60  uint256 c = a * b;
61  require(c / a == b, "SafeMath: multiplication overflow");
62
63  return c;
64
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 61

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
60  uint256 c = a * b;  
61  require(c / a == b, "SafeMath: multiplication overflow");  
62  
63  return c;  
64  }  
65
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 73

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
72  require(b > 0, errorMessage);
73  uint256 c = a / b;
74  // assert(a == b * c + a % b); // There is no case in which this doesn't hold
75
76  return c;
77
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 85

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
84   require(b != 0, errorMessage);  
85   return a % b;  
86   }  
87   }  
88  
89
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 429

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
428 uint256 private constant MAX = ~uint256(0);
429 uint256 private constant _tTotal = 690000000000000 * 10**9;
430 uint256 private _rTotal = (MAX - (MAX % _tTotal));
431 uint256 private _tFeeTotal;
432 // uint256 private _liquidityFee;
433
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 429

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
428 uint256 private constant MAX = ~uint256(0);
429 uint256 private constant _tTotal = 690000000000000 * 10**9;
430 uint256 private _rTotal = (MAX - (MAX % _tTotal));
431 uint256 private _tFeeTotal;
432 // uint256 private _liquidityFee;
433
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 430

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
429 uint256 private constant _tTotal = 6900000000000000 * 10**9;  
430 uint256 private _rTotal = (MAX - (MAX % _tTotal));  
431 uint256 private _tFeeTotal;  
432 // uint256 private _liquidityFee;  
433  
434
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 430

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
429 uint256 private constant _tTotal = 6900000000000000 * 10**9;  
430 uint256 private _rTotal = (MAX - (MAX % _tTotal));  
431 uint256 private _tFeeTotal;  
432 // uint256 private _liquidityFee;  
433  
434
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 445

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
444
445  uint256 public _maxTxAmount = 69000000000000 * 10**9;
446  uint256 private minimumTokensBeforeSwap = 6900000000 * 10**9;
447
448  IUniswapV2Router02 public immutable uniswapV2Router;
449
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 445

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
444
445  uint256 public _maxTxAmount = 69000000000000 * 10**9;
446  uint256 private minimumTokensBeforeSwap = 6900000000 * 10**9;
447
448  IUniswapV2Router02 public immutable uniswapV2Router;
449
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 446

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
445  uint256 public _maxTxAmount = 69000000000000 * 10**9;  
446  uint256 private minimumTokensBeforeSwap = 6900000000 * 10**9;  
447  
448  IUniswapV2Router02 public immutable uniswapV2Router;  
449  address public immutable uniswapV2Pair;  
450
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 446

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
445 uint256 public _maxTxAmount = 69000000000000 * 10**9;  
446 uint256 private minimumTokensBeforeSwap = 6900000000 * 10**9;  
447  
448 IUniswapV2Router02 public immutable uniswapV2Router;  
449 address public immutable uniswapV2Pair;  
450
```


SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 585

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
584     require(!_isExcluded[account], "Account is already excluded");
585     for (uint256 i = 0; i < _excluded.length; i++) {
586         if (_excluded[i] == account) {
587             _excluded[i] = _excluded[_excluded.length - 1];
588             _tOwned[account] = 0;
589         }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 587

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
586   if (_excluded[i] == account) {  
587     _excluded[i] = _excluded[_excluded.length - 1];  
588     _tOwned[account] = 0;  
589     _isExcluded[account] = false;  
590     _excluded.pop();  
591   }
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 787

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
786  uint256 tSupply = _tTotal;
787  for (uint256 i = 0; i < _excluded.length; i++) {
788    if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
    (_rTotal, _tTotal);
789    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
790    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
791  }
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 806

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
805     return _amount.mul(_taxFee).div(  
806         10**2  
807     );  
808 }  
809  
810
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 812

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
811     return _amount.mul(_liquidityFee).div(  
812         10**2  
813     );  
814 }  
815  
816
```

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

LINE 587

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
586   if (_excluded[i] == account) {  
587     _excluded[i] = _excluded[_excluded.length - 1];  
588     _tOwned[account] = 0;  
589     _isExcluded[account] = false;  
590     _excluded.pop();  
591   }
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

low SEVERITY

The current pragma Solidity directive is `^0.6.12`. 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

- VOLT.sol

Locations

```
6
7  pragma solidity ^0.6.12;
8
9  abstract contract Context {
10     function _msgSender() internal view virtual returns (address payable) {
11
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 451

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
450
451  bool inSwapAndLiquify;
452  bool public swapAndLiquifyEnabled = true;
453
454  event RewardLiquidityProviders(uint256 tokenAmount);
455
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 586

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
585   for (uint256 i = 0; i < _excluded.length; i++) {  
586     if (_excluded[i] == account) {  
587       _excluded[i] = _excluded[_excluded.length - 1];  
588       _tOwned[account] = 0;  
589       _isExcluded[account] = false;  
590     }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 587

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
586   if (_excluded[i] == account) {  
587     _excluded[i] = _excluded[_excluded.length - 1];  
588     _tOwned[account] = 0;  
589     _isExcluded[account] = false;  
590     _excluded.pop();  
591
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 587

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
586   if (_excluded[i] == account) {  
587     _excluded[i] = _excluded[_excluded.length - 1];  
588     _tOwned[account] = 0;  
589     _isExcluded[account] = false;  
590     _excluded.pop();  
591
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 672

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
671     address[] memory path = new address[](2);
672     path[0] = address(this);
673     path[1] = uniswapV2Router.WETH();
674
675     _approve(address(this), address(uniswapV2Router), tokenAmount);
676
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 673

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
672  path[0] = address(this);  
673  path[1] = uniswapV2Router.WETH();  
674  
675  _approve(address(this), address(uniswapV2Router), tokenAmount);  
676  
677
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 788

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
787   for (uint256 i = 0; i < _excluded.length; i++) {  
788     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return  
       (_rTotal, _tTotal);  
789     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
790     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
791   }  
792
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 788

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
787   for (uint256 i = 0; i < _excluded.length; i++) {  
788     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return  
       (_rTotal, _tTotal);  
789     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
790     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
791   }  
792
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 789

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
788   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
    (_rTotal, _tTotal);
789   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
790   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
791   }
792   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
793
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 790

low SEVERITY

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

Source File

- VOLT.sol

Locations

```
789   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
790   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
791   }
792   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
793   return (rSupply, tSupply);
794
```

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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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