



Half Floki

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Half Floki	FLOKI0.5	Ethereum

Addresses

Contract address	0x05cb9bfd7995B0bA426c938225A89bDC6b560fCB
Contract deployer address	0x83ce315137aa2dc26784E82A88292ADAdB4db7Ac

Project Website

http://halffloki.net/

Codebase

https://etherscan.io/address/0x05cb9bfd7995B0bA426c938225A89bDC6b560fCB#code

SUMMARY

Half Floki \$floki0.5 is a decentralized cryptocurrency built to be more accessible and equitable. It uses a unique halving process that splits each Floki coin into two halves, known as "Minors" and "Majors".

Contract Summary

Documentation Quality

Half Floki 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 Half Floki 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 343, 376, 378, 399, 400, 496, 510, 525, 526, 539, 551, 566, 580, 594, 608, 624, 647, 670, 696, 785, 787, 787, 788, 788, 789, 789, 793, 797, 838, 838, 842, 842, 851, 851, 851, 854, 854, 859, 859, 859, 862, 862, 883, 893, 954, 960, 1001, 1001, 1002, 1002, 1007, 1007, 1008, 1008, 1018, 1048 and 1049.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 1.
- 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 1027 and 1028.

CONCLUSION

We have audited the Half Floki project released on February 2023 to discover issues and identify potential security vulnerabilities in Half Floki 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 Half Floki 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,, and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
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	Wednesday Feb 08 2023 23:55:48 GMT+0000 (Coordinated Universal Time)
Finished	Thursday Feb 09 2023 17:55:51 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	HalfFLOKI.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-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-103	NO PRAGMA IS 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 343

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
342     unchecked {  
343         _approve(sender, _msgSender(), currentAllowance - amount);  
344     }  
345  
346     return true;  
347
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 376

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
375     unchecked {  
376         _balances[sender] = senderBalance - amount;  
377     }  
378     _balances[recipient] += amount;  
379  
380
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 378

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
377     }  
378     _balances[recipient] += amount;  
379  
380     emit Transfer(sender, recipient, amount);  
381  
382
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 399

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
398
399  _totalSupply += amount;
400  _balances[account] += amount;
401  emit Transfer(address(0), account, amount);
402
403
```


SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 400

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
399 _totalSupply += amount;  
400 _balances[account] += amount;  
401 emit Transfer(address(0), account, amount);  
402  
403 _afterTokenTransfer(address(0), account, amount);  
404
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 496

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
495     unchecked {  
496         uint256 c = a + b;  
497         if (c < a) return (false, 0);  
498         return (true, c);  
499     }  
500
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 510

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
509     if (b > a) return (false, 0);
510     return (true, a - b);
511   }
512 }
513
514
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 525

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
524   if (a == 0) return (true, 0);
525   uint256 c = a * b;
526   if (c / a != b) return (false, 0);
527   return (true, c);
528   }
529
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 526

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
525     uint256 c = a * b;  
526     if (c / a != b) return (false, 0);  
527     return (true, c);  
528 }  
529 }  
530
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 539

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
538     if (b == 0) return (false, 0);
539     return (true, a / b);
540   }
541 }
542
543
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 551

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
550     if (b == 0) return (false, 0);
551     return (true, a % b);
552   }
553 }
554
555
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 566

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
565     function add(uint256 a, uint256 b) internal pure returns (uint256) {  
566         return a + b;  
567     }  
568  
569     /**  
570
```


SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 580

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
579     function sub(uint256 a, uint256 b) internal pure returns (uint256) {  
580         return a - b;  
581     }  
582  
583     /**  
584
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 594

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
593     function mul(uint256 a, uint256 b) internal pure returns (uint256) {  
594         return a * b;  
595     }  
596  
597     /**  
598
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 608

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
607     function div(uint256 a, uint256 b) internal pure returns (uint256) {  
608         return a / b;  
609     }  
610  
611     /**  
612
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 624

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
623     function mod(uint256 a, uint256 b) internal pure returns (uint256) {  
624         return a % b;  
625     }  
626  
627     /**  
628
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 647

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
646   require(b <= a, errorMessage);  
647   return a - b;  
648   }  
649   }  
650  
651
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 670

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
669     require(b > 0, errorMessage);  
670     return a / b;  
671 }  
672 }  
673  
674
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 696

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
695     require(b > 0, errorMessage);
696     return a % b;
697   }
698   }
699   }
700
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 785

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
784
785  uint256 totalSupply = 1_000_000 * 1e18;
786
787  maxTransactionAmount = totalSupply * 2 / 100; // 2% from total supply
maxTransactionAmountTxn
788  maxWallet = totalSupply * 2 / 100; // 2% from total supply maxWallet
789
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 787

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
786
787  maxTransactionAmount =  totalSupply * 2 / 100; // 2% from total supply
maxTransactionAmountTxn
788  maxWallet = totalSupply * 2 / 100; // 2% from total supply maxWallet
789  swapTokensAtAmount = (totalSupply * 5) / 10000; // 0.05% swap wallet
790
791
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 787

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
786
787  maxTransactionAmount =  totalSupply * 2 / 100; // 2% from total supply
maxTransactionAmountTxn
788  maxWallet = totalSupply * 2 / 100; // 2% from total supply maxWallet
789  swapTokensAtAmount = (totalSupply * 5) / 10000; // 0.05% swap wallet
790
791
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 788

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
787  maxTransactionAmount =  totalSupply * 2 / 100; // 2% from total supply
maxTransactionAmountTxn
788  maxWallet = totalSupply * 2 / 100; // 2% from total supply maxWallet
789  swapTokensAtAmount = (totalSupply * 5) / 10000; // 0.05% swap wallet
790
791  buyDevFee = _buyDevFee;
792
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 788

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
787     maxTransactionAmount = totalSupply * 2 / 100; // 2% from total supply
maxTransactionAmountTxn
788     maxWallet = totalSupply * 2 / 100; // 2% from total supply maxWallet
789     swapTokensAtAmount = (totalSupply * 5) / 10000; // 0.05% swap wallet
790
791     buyDevFee = _buyDevFee;
792
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 789

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
788     maxWallet = totalSupply * 2 / 100; // 2% from total supply maxWallet
789     swapTokensAtAmount = (totalSupply * 5) / 10000; // 0.05% swap wallet
790
791     buyDevFee = _buyDevFee;
792     buyLiquidityFee = _buyLiquidityFee;
793
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 789

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
788     maxWallet = totalSupply * 2 / 100; // 2% from total supply maxWallet
789     swapTokensAtAmount = (totalSupply * 5) / 10000; // 0.05% swap wallet
790
791     buyDevFee = _buyDevFee;
792     buyLiquidityFee = _buyLiquidityFee;
793
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 793

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
792     buyLiquidityFee = _buyLiquidityFee;
793     buyTotalFees = buyDevFee + buyLiquidityFee;
794
795     sellDevFee = _sellDevFee;
796     sellLiquidityFee = _sellLiquidityFee;
797
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 797

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
796     sellLiquidityFee = _sellLiquidityFee;  
797     sellTotalFees = sellDevFee + sellLiquidityFee;  
798  
799     devWallet = address(0x83ce315137aa2dc26784E82A88292ADAdB4db7Ac);  
800  
801
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 838

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
837     require(  
838     newAmount >= (totalSupply() * 1) / 100000,  
839     "Swap amount cannot be lower than 0.001% total supply."  
840     );  
841     require(  
842
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 838

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
837     require(  
838     newAmount >= (totalSupply() * 1) / 100000,  
839     "Swap amount cannot be lower than 0.001% total supply."  
840     );  
841     require(  
842
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 842

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
841     require(  
842         newAmount <= (totalSupply() * 5) / 1000,  
843         "Swap amount cannot be higher than 0.5% total supply."  
844     );  
845     swapTokensAtAmount = newAmount;  
846
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 842

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
841     require(  
842         newAmount <= (totalSupply() * 5) / 1000,  
843         "Swap amount cannot be higher than 0.5% total supply."  
844     );  
845     swapTokensAtAmount = newAmount;  
846
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 851

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
850     require(  
851     newNum >= ((totalSupply() * 1) / 1000) / 1e18,  
852     "Cannot set maxTransactionAmount lower than 0.1%"  
853     );  
854     maxTransactionAmount = newNum * (10**18);  
855
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 851

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
850     require(  
851     newNum >= ((totalSupply() * 1) / 1000) / 1e18,  
852     "Cannot set maxTransactionAmount lower than 0.1%"  
853     );  
854     maxTransactionAmount = newNum * (10**18);  
855
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 851

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
850     require(  
851     newNum >= ((totalSupply() * 1) / 1000) / 1e18,  
852     "Cannot set maxTransactionAmount lower than 0.1%"  
853     );  
854     maxTransactionAmount = newNum * (10**18);  
855
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 854

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
853     );  
854     maxTransactionAmount = newNum * (10**18);  
855 }  
856  
857 function updateMaxWalletAmount(uint256 newNum) external onlyOwner {  
858
```


SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 854

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
853     );  
854     maxTransactionAmount = newNum * (10**18);  
855 }  
856  
857 function updateMaxWalletAmount(uint256 newNum) external onlyOwner {  
858
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 859

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
858     require(  
859     newNum >= ((totalSupply() * 5) / 1000) / 1e18,  
860     "Cannot set maxWallet lower than 0.5%"  
861     );  
862     maxWallet = newNum * (10**18);  
863
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 859

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
858     require(  
859     newNum >= ((totalSupply() * 5) / 1000) / 1e18,  
860     "Cannot set maxWallet lower than 0.5%"  
861     );  
862     maxWallet = newNum * (10**18);  
863
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 859

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
858     require(  
859         newNum >= ((totalSupply() * 5) / 1000) / 1e18,  
860         "Cannot set maxWallet lower than 0.5%"  
861     );  
862     maxWallet = newNum * (10**18);  
863 
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 862

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
861     );  
862     maxWallet = newNum * (10**18);  
863 }  
864  
865 function excludeFromMaxTransaction(address updAds, bool isEx)  
866
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 862

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
861     );  
862     maxWallet = newNum * (10**18);  
863 }  
864  
865 function excludeFromMaxTransaction(address updAds, bool isEx)  
866
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 883

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
882 buyLiquidityFee = _liquidityFee;
883 buyTotalFees = buyDevFee + buyLiquidityFee;
884 require(buyTotalFees <= 10, "Must keep fees at 10% or less");
885 }
886
887
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 893

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
892     sellLiquidityFee = _liquidityFee;
893     sellTotalFees = sellDevFee + sellLiquidityFee;
894     require(sellTotalFees <= 99, "Must keep fees at 15% or less");
895 }
896
897
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 954

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
953     require(  
954     amount + balanceOf(to) <= maxWallet,  
955     "Max wallet exceeded"  
956     );  
957 }  
958
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 960

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
959     require(  
960     amount + balanceOf(to) <= maxWallet,  
961     "Max wallet exceeded"  
962     );  
963 }  
964
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1001

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1000     fees = amount.mul(sellTotalFees).div(100);
1001     tokensForLiquidity = (fees * sellLiquidityFee) / sellTotalFees;
1002     tokensForDev = (fees * sellDevFee) / sellTotalFees;
1003 }
1004 // on buy
1005
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1001

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1000     fees = amount.mul(sellTotalFees).div(100);
1001     tokensForLiquidity = (fees * sellLiquidityFee) / sellTotalFees;
1002     tokensForDev = (fees * sellDevFee) / sellTotalFees;
1003 }
1004 // on buy
1005
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1002

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1001     tokensForLiquidity = (fees * sellLiquidityFee) / sellTotalFees;
1002     tokensForDev = (fees * sellDevFee) / sellTotalFees;
1003 }
1004 // on buy
1005 else if (from == uniswapV2Pair && buyTotalFees > 0) {
1006
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1002

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1001     tokensForLiquidity = (fees * sellLiquidityFee) / sellTotalFees;
1002     tokensForDev = (fees * sellDevFee) / sellTotalFees;
1003 }
1004 // on buy
1005 else if (from == uniswapV2Pair && buyTotalFees > 0) {
1006
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1007

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1006     fees = amount.mul(buyTotalFees).div(100);
1007     tokensForLiquidity = (fees * buyLiquidityFee) / buyTotalFees;
1008     tokensForDev = (fees * buyDevFee) / buyTotalFees;
1009 }
1010
1011
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1007

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1006     fees = amount.mul(buyTotalFees).div(100);  
1007     tokensForLiquidity = (fees * buyLiquidityFee) / buyTotalFees;  
1008     tokensForDev = (fees * buyDevFee) / buyTotalFees;  
1009 }  
1010  
1011
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 1008

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1007     tokensForLiquidity = (fees * buyLiquidityFee) / buyTotalFees;
1008     tokensForDev = (fees * buyDevFee) / buyTotalFees;
1009 }
1010
1011 if (fees > 0) {
1012
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1008

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1007     tokensForLiquidity = (fees * buyLiquidityFee) / buyTotalFees;
1008     tokensForDev = (fees * buyDevFee) / buyTotalFees;
1009 }
1010
1011 if (fees > 0) {
1012
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 1018

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1017
1018     amount -= fees;
1019 }
1020
1021     super._transfer(from, to, amount);
1022
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1048

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1047
1048   if (contractBalance > swapTokensAtAmount * 20) {
1049       contractBalance = swapTokensAtAmount * 20;
1050   }
1051
1052
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1049

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1048   if (contractBalance > swapTokensAtAmount * 20) {  
1049       contractBalance = swapTokensAtAmount * 20;  
1050   }  
1051  
1052   swapTokensForFLOKI(contractBalance);  
1053
```

SWC-103 | NO PRAGMA IS SET.

LINE 1

low SEVERITY

It is recommended to make a conscious choice on what version of Solidity is used for compilation. Currently no version is set in the Solidity file.

Source File

- HalfFLOKI.sol

Locations

```
0
1 //https://t.me/FlokiHalfETH
2
3 abstract contract Context {
4     function _msgSender() internal view virtual returns (address) {
5
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1027

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1026     address[] memory path = new address[](2);
1027     path[0] = address(this);
1028     path[1] = FLOKI;
1029
1030     _approve(address(this), address(uniswapV2Router), tokenAmount);
1031
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1028

low SEVERITY

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

Source File

- HalfFLOKI.sol

Locations

```
1027     path[0] = address(this);  
1028     path[1] = FLOKI;  
1029  
1030     _approve(address(this), address(uniswapV2Router), tokenAmount);  
1031  
1032
```


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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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