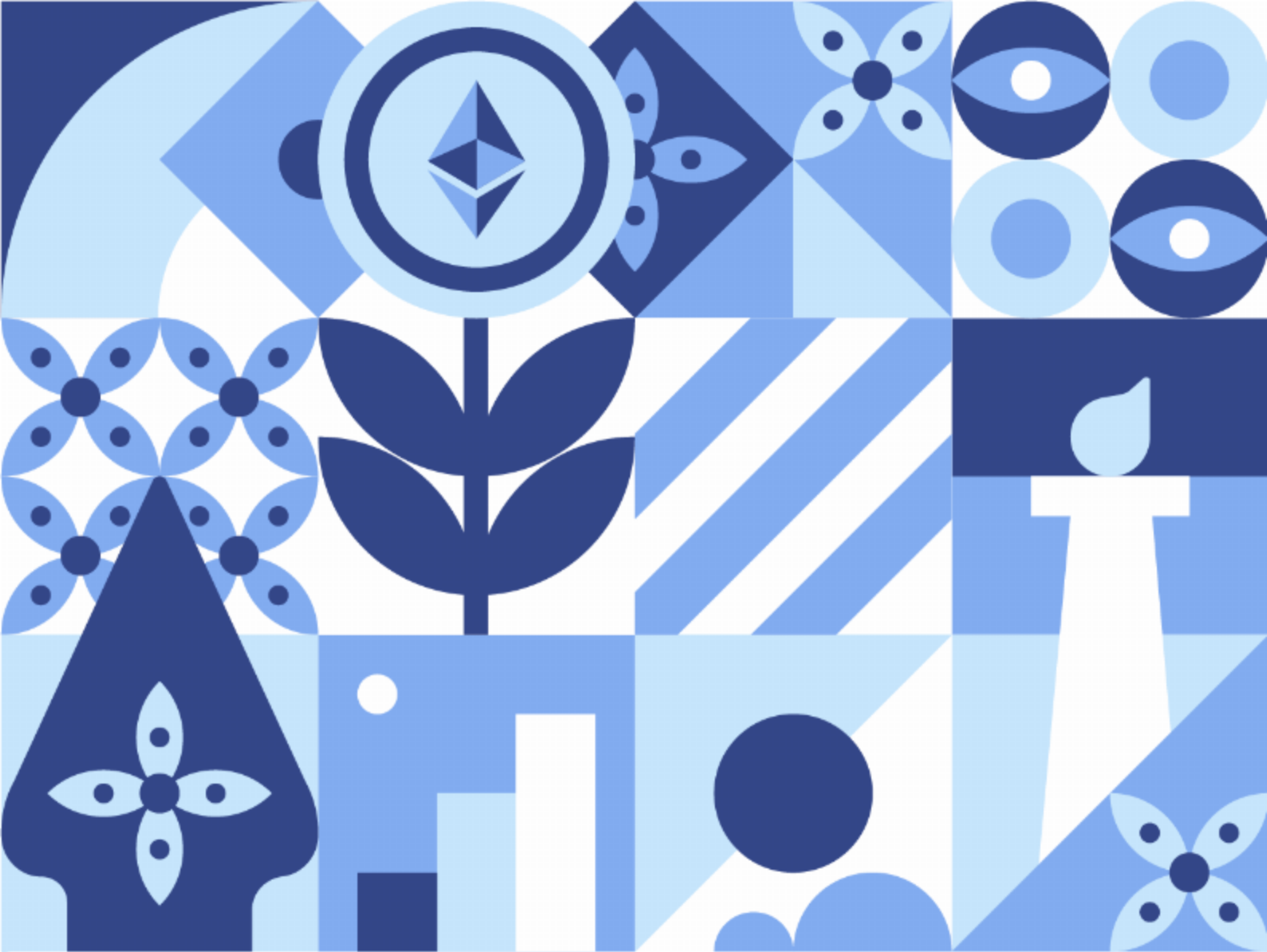




KIKI

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
KIKI	KIKI	Ethereum

Addresses

Contract address	0x369b77bbeeee50e6ea206dcf41ee670c47360055
Contract deployer address	0xbb616316B47c91240604A1E17Ac20fb677873302

Project Website

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

Codebase

<https://etherscan.io/address/0x369b77bbeeee50e6ea206dcf41ee670c47360055#code>

SUMMARY

Far more than a crypto project, KIKI is a Movement. Combined with NFT, Novel, Charity, and Love, KIKI is one of its kind, a blockchain project with the love of art and charity, an art project with the spirit of blockchain.

Contract Summary

Documentation Quality

KIKI 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 KIKI 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 1093.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 114, 132, 151, 152, 169, 185, 200, 214, 228, 242, 258, 281, 308, 334, 689, 1070, 1070, 1071, 1071, 1096, 1096, 1097, 1097, 1307, 1309, 1342, 1450, 1481, 1489, 1493 and 1309.
- 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 1308, 1309, 1309, 1452, 1453, 1455, 1456, 1614 and 1615.

CONCLUSION

We have audited the KIKI project released on November 2021 to discover issues and identify potential security vulnerabilities in KIKI 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 KIKI 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.

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	Monday Nov 29 2021 21:55:08 GMT+0000 (Coordinated Universal Time)
Finished	Tuesday Nov 30 2021 08:53:40 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	KIKI.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

LINE 114

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
113     unchecked {  
114         uint256 c = a + b;  
115         if (c < a) return (false, 0);  
116         return (true, c);  
117     }  
118
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 132

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
131   if (b > a) return (false, 0);
132   return (true, a - b);
133   }
134   }
135
136
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 151

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
150   if (a == 0) return (true, 0);
151   uint256 c = a * b;
152   if (c / a != b) return (false, 0);
153   return (true, c);
154 }
155
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 152

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
151  uint256 c = a * b;  
152  if (c / a != b) return (false, 0);  
153  return (true, c);  
154  }  
155  }  
156
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 169

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
168   if (b == 0) return (false, 0);
169   return (true, a / b);
170   }
171   }
172
173
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 185

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
184   if (b == 0) return (false, 0);
185   return (true, a % b);
186   }
187   }
188
189
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 200

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
199  function add(uint256 a, uint256 b) internal pure returns (uint256) {  
200  return a + b;  
201  }  
202  
203  /**  
204
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 214

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
213     function sub(uint256 a, uint256 b) internal pure returns (uint256) {
214         return a - b;
215     }
216
217     /**
218
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 228

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
227 function mul(uint256 a, uint256 b) internal pure returns (uint256) {  
228     return a * b;  
229 }  
230  
231 /**  
232
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 242

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
241 function div(uint256 a, uint256 b) internal pure returns (uint256) {  
242     return a / b;  
243 }  
244  
245 /**  
246
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 258

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
257 function mod(uint256 a, uint256 b) internal pure returns (uint256) {  
258     return a % b;  
259 }  
260  
261 /**  
262
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 281

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
280   require(b <= a, errorMessage);
281   return a - b;
282   }
283   }
284
285
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 308

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
307     require(b > 0, errorMessage);
308     return a / b;
309 }
310 }
311
312
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 334

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
333     require(b > 0, errorMessage);  
334     return a % b;  
335 }  
336 }  
337 }  
338
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 689

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
688   _owner = address(0);  
689   _lockTime = block.timestamp + time;  
690   emit OwnershipTransferred(_owner, address(0));  
691   }  
692  
693
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1070

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1069 uint256 private constant MAX = ~uint256(0);
1070 uint256 private _tTotal = 100_000_000 * 10**18;
1071 uint256 private _rTotal = (MAX - (MAX % _tTotal));
1072 uint256 private _tFeeTotal;
1073
1074
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1070

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1069 uint256 private constant MAX = ~uint256(0);
1070 uint256 private _tTotal = 100_000_000 * 10**18;
1071 uint256 private _rTotal = (MAX - (MAX % _tTotal));
1072 uint256 private _tFeeTotal;
1073
1074
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1071

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1070 uint256 private _tTotal = 100_000_000 * 10**18;
1071 uint256 private _rTotal = (MAX - (MAX % _tTotal));
1072 uint256 private _tFeeTotal;
1073
1074 string private _name = "KIKI";
1075
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 1071

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1070 uint256 private _tTotal = 100_000_000 * 10**18;
1071 uint256 private _rTotal = (MAX - (MAX % _tTotal));
1072 uint256 private _tFeeTotal;
1073
1074 string private _name = "KIKI";
1075
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1096

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1095
1096 uint256 public _maxTxAmount = 100_000_000 * 10**18;
1097 uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18;
1098
1099 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
1100
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1096

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1095
1096 uint256 public _maxTxAmount = 100_000_000 * 10**18;
1097 uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18;
1098
1099 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
1100
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1097

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1096 uint256 public _maxTxAmount = 100_000_000 * 10**18;
1097 uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18;
1098
1099 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
1100 event SwapAndLiquifyEnabledUpdated(bool enabled);
1101
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1097

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1096 uint256 public _maxTxAmount = 100_000_000 * 10**18;
1097 uint256 private numTokensSellToAddToLiquidity = 300_000 * 10**18;
1098
1099 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
1100 event SwapAndLiquifyEnabledUpdated(bool enabled);
1101
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1307

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1306   require(!_isExcluded[account], "Account is already included");
1307   for (uint256 i = 0; i < _excluded.length; i++) {
1308       if (_excluded[i] == account) {
1309           _excluded[i] = _excluded[_excluded.length - 1];
1310           _tOwned[account] = 0;
1311       }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 1309

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1308   if (_excluded[i] == account) {  
1309       _excluded[i] = _excluded[_excluded.length - 1];  
1310       _tOwned[account] = 0;  
1311       _isExcluded[account] = false;  
1312       _excluded.pop();  
1313   }
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1342

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1341 function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner {  
1342     _maxTxAmount = _tTotal.mul(maxTxPercent).div(10**2);  
1343 }  
1344  
1345 function setMarketingWallet(address payable marketingWallet)  
1346
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1450

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1449     uint256 tSupply = _tTotal;
1450     for (uint256 i = 0; i < _excluded.length; i++) {
1451         if (
1452             _rOwned[_excluded[i]] > rSupply ||
1453             _tOwned[_excluded[i]] > tSupply
1454         )
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1481

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1480     function calculateTaxFee(uint256 _amount) private view returns (uint256) {  
1481         return _amount.mul(_taxFee).div(10**2);  
1482     }  
1483  
1484     function calculateLiquidityFee(uint256 _amount)  
1485
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1489

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1488 {  
1489     return _amount.mul(_liquidityFee).div(10**2);  
1490 }  
1491  
1492 function calculateBurnFee(uint256 _amount) private view returns (uint256) {  
1493
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1493

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1492 function calculateBurnFee(uint256 _amount) private view returns (uint256) {  
1493     return _amount.mul(_burnFee).div(10**2);  
1494 }  
1495  
1496 function removeAllFee() private {  
1497
```

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

LINE 1309

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1308     if (_excluded[i] == account) {  
1309         _excluded[i] = _excluded[_excluded.length - 1];  
1310         _tOwned[account] = 0;  
1311         _isExcluded[account] = false;  
1312         _excluded.pop();  
1313     }
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 1

low SEVERITY

The current pragma Solidity directive is ""^0.8.5"". 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

- KIKI.sol

Locations

```
0
1  pragma solidity ^0.8.5;
2
3  // SPDX-License-Identifier: Unlicensed
4
5
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 1093

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

- KIKI.sol

Locations

```
1092
1093     bool inSwapAndLiquify;
1094     bool public swapAndLiquifyEnabled = true;
1095
1096     uint256 public _maxTxAmount = 100_000_000 * 10**18;
1097
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1308

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1307   for (uint256 i = 0; i < _excluded.length; i++) {  
1308     if (_excluded[i] == account) {  
1309       _excluded[i] = _excluded[_excluded.length - 1];  
1310       _tOwned[account] = 0;  
1311       _isExcluded[account] = false;  
1312     }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1309

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1308   if (_excluded[i] == account) {  
1309       _excluded[i] = _excluded[_excluded.length - 1];  
1310       _tOwned[account] = 0;  
1311       _isExcluded[account] = false;  
1312       _excluded.pop();  
1313   }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1309

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1308   if (_excluded[i] == account) {  
1309       _excluded[i] = _excluded[_excluded.length - 1];  
1310       _tOwned[account] = 0;  
1311       _isExcluded[account] = false;  
1312       _excluded.pop();  
1313   }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1452

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1451   if (  
1452     _rOwned[_excluded[i]] > rSupply ||  
1453     _tOwned[_excluded[i]] > tSupply  
1454   ) return (_rTotal, _tTotal);  
1455   rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
1456
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1453

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1452  _rOwned[_excluded[i]] > rSupply ||  
1453  _tOwned[_excluded[i]] > tSupply  
1454  ) return (_rTotal, _tTotal);  
1455  rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
1456  tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
1457
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1455

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1454     ) return (_rTotal, _tTotal);  
1455     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
1456     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
1457     }  
1458     if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);  
1459
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1456

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1455   rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
1456   tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
1457   }  
1458   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);  
1459   return (rSupply, tSupply);  
1460
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1614

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1613 address[] memory path = new address[](2);
1614 path[0] = address(this);
1615 path[1] = uniswapV2Router.WETH();
1616
1617 _approve(address(this), address(uniswapV2Router), tokenAmount);
1618
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1615

low SEVERITY

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

Source File

- KIKI.sol

Locations

```
1614 path[0] = address(this);
1615 path[1] = uniswapV2Router.WETH();
1616
1617 _approve(address(this), address(uniswapV2Router), tokenAmount);
1618
1619
```

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