YetiCoin

Smart Contract Audit Report

TABLE OF CONTENTS

AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
YetiCoin	YETIC	Ethereum

Addresses

Contract address	0xdf96bde075d59e9143b325c75af38e208c986e6f
Contract deployer address	0xE7412E4dE41676aA29E8F1804B128DF92bFf4323

Project Website

https://yeticoineth.com/

Codebase

https://etherscan.io/address/0xdf96bde075d59e9143b325c75af38e208c986e6f#code

SUMMARY

We are pioneering the M2E (Move2Earn) utility. Earn tokens while you get your fit on!!! We aim to get people moving while partnering with Gyms, Athletes, and different sports organizations to help kids have opportunities they wouldn't normally get. Come check out all the spectacular things we are doing and join us today!!!

▌Contract Summary

Documentation Quality

YetiCoin 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 YetiCoin 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 358.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 34, 66, 89, 90, 125, 161, 337, 337, 337, 337, 338, 338, 361, 361, 361, 361, 362, 362, 362, 362, 544, 550, 557 and 597.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- 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 497, 497, 497, 498, 498, 498, 498, 498, 498, 498, 661 and 662.

CONCLUSION

We have audited the YetiCoin project released on November 2021 to discover issues and identify potential security vulnerabilities in YetiCoin 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 YetiCoin 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 griefing 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	Tuesday Nov 16 2021 05:20:28 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Nov 17 2021 02:00:04 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	YetiCoin.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
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SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged

SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 34

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
33    function add(uint256 a, uint256 b) internal pure returns (uint256) {
34    uint256 c = a + b;
35    require(c >= a, "SafeMath: addition overflow");
36
37    return c;
38
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 66

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
65   require(b <= a, errorMessage);
66   uint256 c = a - b;
67
68   return c;
69   }
70
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 89

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
88
89   uint256 c = a * b;
90   require(c / a == b, "SafeMath: multiplication overflow");
91
92   return c;
93
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 90

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
89   uint256 c = a * b;
90   require(c / a == b, "SafeMath: multiplication overflow");
91
92   return c;
93   }
94
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 125

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
124    require(b > 0, errorMessage);
125    uint256 c = a / b;
126    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
127
128    return c;
129
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED
LINE 161

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
160    require(b != 0, errorMessage);
161    return a % b;
162    }
163    }
164
165
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 337

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
336   uint256 private constant MAX = ~uint256(0);
337   uint256 private _tTotal = 1 * 10**15 * 10**9;
338   uint256 private _rTotal = (MAX - (MAX % _tTotal));
339   uint256 private _tFeeTotal;
340
341
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 337

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
336    uint256 private constant MAX = ~uint256(0);
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339    uint256 private _tFeeTotal;
340
341
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 337

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
336   uint256 private constant MAX = ~uint256(0);
337   uint256 private _tTotal = 1 * 10**15 * 10**9;
338   uint256 private _rTotal = (MAX - (MAX % _tTotal));
339   uint256 private _tFeeTotal;
340
341
```

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337    uint256 private _tTotal = 1 * 10**15 * 10**9;
338    uint256 private _rTotal = (MAX - (MAX % _tTotal));
339    uint256 private _tFeeTotal;
340
341
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 338

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
337   uint256 private _tTotal = 1 * 10**15 * 10**9;
338   uint256 private _rTotal = (MAX - (MAX % _tTotal));
339   uint256 private _tFeeTotal;
340
341   string private _name = "YetiCoin";
342
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED
LINE 338

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
337   uint256 private _tTotal = 1 * 10**15 * 10**9;
338   uint256 private _rTotal = (MAX - (MAX % _tTotal));
339   uint256 private _tFeeTotal;
340
341   string private _name = "YetiCoin";
342
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 361

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
360
361    uint256 public _maxWalletHolding = 25 * 10**12 * 10**9;
362    uint256 private numTokensSellToAddToLiquidity = 9 * 10**12 * 10**9;
363
364    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
365
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 361

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
360
361    uint256 public _maxWalletHolding = 25 * 10**12 * 10**9;
362    uint256 private numTokensSellToAddToLiquidity = 9 * 10**12 * 10**9;
363
364    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
365
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 361

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

Source File
- YetiCoin.sol

Locations

```
360
361    uint256 public _maxWalletHolding = 25 * 10**12 * 10**9;
362    uint256 private numTokensSellToAddToLiquidity = 9 * 10**12 * 10**9;
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364    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
365
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 361

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

Source File
- YetiCoin.sol

Locations

```
360
361    uint256 public _maxWalletHolding = 25 * 10**12 * 10**9;
362    uint256 private numTokensSellToAddToLiquidity = 9 * 10**12 * 10**9;
363
364    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
365
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 362

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
361    uint256 public _maxWalletHolding = 25 * 10**12 * 10**9;
362    uint256 private numTokensSellToAddToLiquidity = 9 * 10**12 * 10**9;
363
364    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
365    event SwapAndLiquifyEnabledUpdated(bool enabled);
366
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 362

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
361    uint256 public _maxWalletHolding = 25 * 10**12 * 10**9;
362    uint256 private numTokensSellToAddToLiquidity = 9 * 10**12 * 10**9;
363
364    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
365    event SwapAndLiquifyEnabledUpdated(bool enabled);
366
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 362

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
361   uint256 public _maxWalletHolding = 25 * 10**12 * 10**9;
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363
364   event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
365   event SwapAndLiquifyEnabledUpdated(bool enabled);
366
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 362

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
361    uint256 public _maxWalletHolding = 25 * 10**12 * 10**9;
362    uint256 private numTokensSellToAddToLiquidity = 9 * 10**12 * 10**9;
363
364    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
365    event SwapAndLiquifyEnabledUpdated(bool enabled);
366
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 544

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
543   return _amount.mul(__reflectFee).div(
544   10**2
545   );
546   }
547
548
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 550

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
549    return _amount.mul(__liquidityFee).div(
550    10**2
551    );
552    }
553
554
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 557

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
556    return _amount.mul(operations_fee).div(
557    10**2
558    );
559    }
560
561
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 597

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
596    require(amount > 0, "Transfer amount must be greater than zero");
597    if ((contract_deployed + 30 days) < block.timestamp) {
598    __liquidityFee = 0;
599    __prev_liquidityFee = 0;
600    }
601
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

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

- YetiCoin.sol

Locations

```
5    // SPDX-License-Identifier: Unlicensed
6    pragma solidity ^0.6.12;
7
8    /**
9    * @dev Wrappers over Solidity's arithmetic operations with added overflow
10
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.
LINE 358

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

- YetiCoin.sol

Locations

```
357
358    bool inSwapAndLiquify;
359    bool public swapAndLiquifyEnabled = true;
360
361    uint256 public _maxWalletHolding = 25 * 10**12 * 10**9;
362
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 497

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
496   uint256[4] memory tValues = _getTValuesArray(tAmount);
497   uint256[3] memory rValues = _getRValuesArray(tAmount, tValues[1], tValues[2],
tValues[3]);
498   return (rValues[0], rValues[1], rValues[2], tValues[0], tValues[1], tValues[2],
tValues[3]);
499   }
500
501
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 497

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

Source File

- YetiCoin.sol

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tValues[3]);
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tValues[3]);
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501
```

SYSFIXED

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
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The index access expression can cause an exception in case of use of invalid array index value.

Source File

- YetiCoin.sol

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tValues[3]);
498    return (rValues[0], rValues[1], rValues[2], tValues[0], tValues[1], tValues[2],
tValues[3]);
499    }
500
501
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
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Source File

- YetiCoin.sol

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497   uint256[3] memory rValues = _getRValuesArray(tAmount, tValues[1], tValues[2],
tValues[3]);
498   return (rValues[0], rValues[1], rValues[2], tValues[0], tValues[1], tValues[2],
tValues[3]);
499   }
500
501   function _getTValuesArray(uint256 tAmount) private view returns (uint256[4] memory
val) {
502
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 498

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Source File

- YetiCoin.sol

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tValues[3]);
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low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
497   uint256[3] memory rValues = _getRValuesArray(tAmount, tValues[1], tValues[2],
tValues[3]);
498   return (rValues[0], rValues[1], rValues[2], tValues[0], tValues[1], tValues[2],
tValues[3]);
499   }
500
501   function _getTValuesArray(uint256 tAmount) private view returns (uint256[4] memory
val) {
502
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 661

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
660    address[] memory path = new address[](2);
661    path[0] = address(this);
662    path[1] = uniswapV2Router.WETH();
663
664    _approve(address(this), address(uniswapV2Router), tokenAmount);
665
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 662

low SEVERITY

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

Source File

- YetiCoin.sol

Locations

```
661    path[0] = address(this);
662    path[1] = uniswapV2Router.WETH();
663
664    _approve(address(this), address(uniswapV2Router), tokenAmount);
665
666
```

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