



ZombieTama
Smart Contract
Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
ZombieTama	ZTama	Ethereum

Addresses

Contract address	0x28988C700e0Ed4D3AdCC8a4A48862251E3aFBA22
Contract deployer address	0x8BC03EEB17a8774917ab3dD2E3b345B30EFa339d

Project Website

<https://zombietama.com/>

Codebase

<https://etherscan.io/address/0x28988C700e0Ed4D3AdCC8a4A48862251E3aFBA22#code>

SUMMARY

A Community Driven project with the intention of enjoying the season and bringing back the old ways!! We will use our teams experience and humanitarian nature to use this project to help develop and create something that will benefit our holders and community. Have faith in us and we will show our good will in time!!!

Contract Summary

Documentation Quality

ZombieTama 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 ZombieTama 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 729.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 141, 173, 196, 197, 232, 268, 698, 698, 699, 699, 731, 731, 767, 874, 876, 898, 1159, 1254, 1276, 1276 and 876.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 25.
- 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 875, 876, 876, 899, 1024, 1025, 1160, 1160, 1161 and 1162.

CONCLUSION

We have audited the ZombieTama project released on October 2022 to discover issues and identify potential security vulnerabilities in ZombieTama 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 ZombieTama 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 <code>abi.encodePacked()</code> with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The <code>transfer()</code> and <code>send()</code> 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 Oct 03 2022 10:26:49 GMT+0000 (Coordinated Universal Time)
Finished	Tuesday Oct 04 2022 20:23:04 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	ZombieTama.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

LINE 141

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
140 function add(uint256 a, uint256 b) internal pure returns (uint256) {  
141     uint256 c = a + b;  
142     require(c >= a, "SafeMath: addition overflow");  
143  
144     return c;  
145 }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 173

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
172   require(b <= a, errorMessage);
173   uint256 c = a - b;
174
175   return c;
176   }
177
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 196

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
195
196  uint256 c = a * b;
197  require(c / a == b, "SafeMath: multiplication overflow");
198
199  return c;
200
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 197

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
196  uint256 c = a * b;
197  require(c / a == b, "SafeMath: multiplication overflow");
198
199  return c;
200  }
201
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 232

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
231   require(b > 0, errorMessage);
232   uint256 c = a / b;
233   // assert(a == b * c + a % b); // There is no case in which this doesn't hold
234
235   return c;
236
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 268

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
267     require(b != 0, errorMessage);
268     return a % b;
269   }
270 }
271
272
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 698

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
697 uint256 private constant MAX = ~uint256(0);
698 uint256 private _tTotal = 1000000000 * 10**9;
699 uint256 private _rTotal = (MAX - (MAX % _tTotal));
700 uint256 private _tFeeTotal;
701
702
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 698

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
697 uint256 private constant MAX = ~uint256(0);
698 uint256 private _tTotal = 1000000000 * 10**9;
699 uint256 private _rTotal = (MAX - (MAX % _tTotal));
700 uint256 private _tFeeTotal;
701
702
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 699

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
698 uint256 private _tTotal = 1000000000 * 10**9;
699 uint256 private _rTotal = (MAX - (MAX % _tTotal));
700 uint256 private _tFeeTotal;
701
702 string private _name = "ZombieTama";
703
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 699

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
698 uint256 private _tTotal = 1000000000 * 10**9;
699 uint256 private _rTotal = (MAX - (MAX % _tTotal));
700 uint256 private _tFeeTotal;
701
702 string private _name = "ZombieTama";
703
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 731

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
730 bool public swapAndLiquifyEnabled = true;
731 uint256 private minTokensBeforeSwap = 1000000 * 10**9;
732
733 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
734 event SwapAndLiquifyEnabledUpdated(bool enabled);
735
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 731

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
730  bool public swapAndLiquifyEnabled = true;
731  uint256 private minTokensBeforeSwap = 1000000 * 10**9;
732
733  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
734  event SwapAndLiquifyEnabledUpdated(bool enabled);
735
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 767

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
766 // launch sell fee
767 launchSellFeeDeadline = now + 0 days;
768
769 emit Transfer(address(0), _msgSender(), _tTotal);
770 }
771
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 874

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
873   require(!_isExcluded[account], "Account is already excluded");
874   for (uint256 i = 0; i < _excluded.length; i++) {
875       if (_excluded[i] == account) {
876           _excluded[i] = _excluded[_excluded.length - 1];
877           _tOwned[account] = 0;
878       }
```


SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 876

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
875   if (_excluded[i] == account) {  
876     _excluded[i] = _excluded[_excluded.length - 1];  
877     _tOwned[account] = 0;  
878     _isExcluded[account] = false;  
879     _excluded.pop();  
880
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 898

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
897     uint totalExcludedBal;
898     for (uint256 i = 0; i < _excluded.length; i++){
899         totalExcludedBal = balanceOf(_excluded[i]).add(totalExcludedBal);
900     }
901     uint256 rewards =
holdersBal.mul(_balance).div(_tTotal.sub(balanceOf(uniswapV2Pair)).sub(totalExcludedBal))
;
902
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 1159

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1158 uint256 tSupply = _tTotal;
1159 for (uint256 i = 0; i < _excluded.length; i++) {
1160     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
        (_rTotal, _tTotal);
1161     rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1162     tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1163 }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 1254

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1253     require(devFee <= 100, "Maximum fee limit is 10 percent");
1254     require(devTax + marketingTax == devFee, "Dev + marketing must equal total fee");
1255     _devFee = devFee;
1256     _devTax = devTax;
1257     _marketingTax = marketingTax;
1258
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 1276

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1275     function setMinTokensBeforeSwap(uint256 minTokens) external onlyOwner {
1276         minTokensBeforeSwap = minTokens * 10**9;
1277         emit MinTokensBeforeSwapUpdated(minTokens);
1278     }
1279
1280
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 1276

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1275 function setMinTokensBeforeSwap(uint256 minTokens) external onlyOwner {
1276     minTokensBeforeSwap = minTokens * 10**9;
1277     emit MinTokensBeforeSwapUpdated(minTokens);
1278 }
1279
1280
```

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

LINE 876

low SEVERITY

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

Source File

-ZombieTama.sol

Locations

```
875     if (_excluded[i] == account) {
876         _excluded[i] = _excluded[_excluded.length - 1];
877         _tOwned[account] = 0;
878         _isExcluded[account] = false;
879         _excluded.pop();
880     }
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 25

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

- ZombieTama.sol

Locations

```
24
25  pragma solidity ^0.6.12;
26
27  abstract contract Context {
28    function _msgSender() internal view virtual returns (address payable) {
29
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 729

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

- ZombieTama.sol

Locations

```
728
729  bool inSwapAndLiquify;
730  bool public swapAndLiquifyEnabled = true;
731  uint256 private minTokensBeforeSwap = 1000000 * 10**9;
732
733
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 875

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
874   for (uint256 i = 0; i < _excluded.length; i++) {
875     if (_excluded[i] == account) {
876       _excluded[i] = _excluded[_excluded.length - 1];
877       _tOwned[account] = 0;
878       _isExcluded[account] = false;
879     }
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 876

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
875   if (_excluded[i] == account) {  
876     _excluded[i] = _excluded[_excluded.length - 1];  
877     _tOwned[account] = 0;  
878     _isExcluded[account] = false;  
879     _excluded.pop();  
880
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 876

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
875   if (_excluded[i] == account) {  
876     _excluded[i] = _excluded[_excluded.length - 1];  
877     _tOwned[account] = 0;  
878     _isExcluded[account] = false;  
879     _excluded.pop();  
880
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 899

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
898     for (uint256 i = 0; i < _excluded.length; i++){
899         totalExcludedBal = balanceOf(_excluded[i]).add(totalExcludedBal);
900     }
901     uint256 rewards =
holdersBal.mul(_balance).div(_tTotal.sub(balanceOf(uniswapV2Pair)).sub(totalExcludedBal))
;
902     return rewards;
903
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1024

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1023     address[] memory path = new address[](2);
1024     path[0] = address(this);
1025     path[1] = uniswapV2Router.WETH();
1026
1027     _approve(address(this), address(uniswapV2Router), tokenAmount);
1028
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1025

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1024 path[0] = address(this);
1025 path[1] = uniswapV2Router.WETH();
1026
1027 _approve(address(this), address(uniswapV2Router), tokenAmount);
1028
1029
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1160

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1159   for (uint256 i = 0; i < _excluded.length; i++) {
1160     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
        (_rTotal, _tTotal);
1161     rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1162     tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1163   }
1164
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1160

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1159   for (uint256 i = 0; i < _excluded.length; i++) {
1160     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
1161     rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1162     tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1163   }
1164
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1161

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1160  if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
      (_rTotal, _tTotal);
1161  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1162  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1163  }
1164  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1165
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1162

low SEVERITY

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

Source File

- ZombieTama.sol

Locations

```
1161 rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1162 tSupply = tSupply.sub(_tOwned[_excluded[i]]);
1163 }
1164 if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
1165 return (rSupply, tSupply);
1166
```

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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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