



Rodeo Solutions
Develop - Audit - Coach

WOLFY Token Smart Contract Audit



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Commision

Audited Project	WOLFY Token
Project website	https://token-wolf.com/
Contract Owner	0xF5243d0b1501B173FD2afa783c971E3F9b33888F
SmartContract Address	0xBD98Fbc85ec9345d013DfC14B37ab05D1E302ED6
Blockchain	Binance Main Smart Chain

Rodeo Solutions was commissioned by WOLFY Token owners to perform an audit of their main smart contract.

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified. This audit was performed on Binance Testnet as it's deployment is pending. As soos as it gets deployed teh audit will be revised and updated accordingly.



Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at 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 disclaimer below – please make sure to read it in full.

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\$WOLFY Properties

Contract name	WOLFY Token
Contract address	0xBD98Fbc85ec9345d013DfC14B37ab05D1E302ED6
Total supply	1T
Token ticker	WOLFY
Decimals	6
Token holders	2
Transactions count	2
Top 100 holders dominance	100.00%
Liquidity fee	5%
Tax fee	4%
Total fees	9%
Mintable	No
Burnable	Manual burns only
Uniswap V2 pair	0x436cd86aa6e0fe488e101c62b381a17397358bc9
Contract deployer address	0xF5243d0b1501B173FD2afa783c971E3F9b33888F
Contract's current owner address	0xF5243d0b1501B173FD2afa783c971E3F9b33888F

As of 27/06/2021



Contract Functions

Public

View

```
name()
symbol()
decimals()
totalSupply()
allowance(address owner, address spender)
approve(address spender, uint256 amount)
isExcludedFromReward(address account)
totalFees()
reflectionFromToken(uint256 tAmount, bool deductTransferFee)
tokenFromReflection(uint256 rAmount)
isExcludedFromFee(address account)
```

Virtual

```
increaseAllowance(address spender, uint256 addedValue)
decreaseAllowance(address spender, uint256 subtractedValue)
```

Executables

```
balanceOf(address account)
transfer(address recipient, uint256 amount)
transferFrom(address sender, address recipient, uint256 amount)
deliver(uint256 tAmount)
```

Owner Executables

```
excludeFromReward(address account)
excludeFromFee(address account)
includeInReward(address account)
includeInFee(address account)
setTaxFeePercent(uint256 taxFee)
setLiquidityFeePercent(uint256 liquidityFee)
setMaxTxPercent(uint256 maxTxPercent)
setSwapAndLiquifyEnabled(bool _enabled)
setTaxEnable(bool _enable)
Extra standard from Ownable Contract
```



Checklist

Compiler errors.	Passed
Possible delays in data delivery.	Passed
Timestamp dependence.	Passed
Integer Overflow and Underflow.	Passed
DoS with Revert.	Passed
DoS with block gas limit.	Low issues
Methods execution permissions.	Passed
Economy model of the contract.	Passed
Private user data leaks.	Passed
Malicious Event log.	Passed
Scoping and Declarations.	Passed
Uninitialized storage pointers.	Passed
Arithmetic accuracy.	Passed
Design Logic.	Passed
Cross-function race conditions.	Passed
Fallback function security.	Passed
Safe Open Zeppelin contracts implementation and usage.	Passed
Whitepaper-Website-Contract correlation.	Low issues



Potential Issues

Low severity warnings

The burning method used by the contract, being manual, renders the token as non-trustless. This means that it's up to the owners to follow through with the "Manual Burns" feature of the token.



Owner privileges

- The owner can Exclude or Add an address from the rewards program. Not available on WOLFY.

```
function excludeFromReward(address account) public onlyOwner() {
    // require(account != 0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D, 'We can not exclude Uniswap router. ');
    require(!_isExcluded[account], "Account is already excluded");
    if(_rOwned[account] > 0) {
        _tOwned[account] = tokenFromReflection(_rOwned[account]);
    }
    _isExcluded[account] = true;
    _excluded.push(account);
}

function includeInReward(address account) external onlyOwner() {
    require(_isExcluded[account], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

- The owner can Exclude or Add an address from being taxed.

```
function excludeFromFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = true;
}

function includeInFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = false;
}
```



- The owner can change the Tax percentages at any time.

```
function setTaxFeePercent(uint256 taxFee) external onlyOwner() {
    _taxFee = taxFee;
    emit SetTaxFeePercent(taxFee);
}

function setLiquidityFeePercent(uint256 liquidityFee) external onlyOwner() {
    _liquidityFee = liquidityFee;
    emit SetLiquidityFeePercent(liquidityFee);
}
```

- The owner can enable or disable taxes at any time.

```
function setTaxEnable(bool _enable) public onlyOwner {
    _taxEnabled = _enable;
    emit SetTaxEnable(_enable);
}
```

- The owner can toggle the automatic liquidity swap at any time.

```
function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {
    swapAndLiquifyEnabled = _enabled;
    emit SwapAndLiquifyEnabledUpdated(_enabled);
}
```

- The owner can set the maximum amount of a transaction at any time.

```
function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner() {
    _maxTxAmount = _tTotal.mul(maxTxPercent).div(
        10**2
    );
    emit SetMaxTxPercent(maxTxPercent);
}
```

- Additionally the owner can execute the standard functions related to the Ownable Library



Conclusion

The Smart Contract coded passed the audit successfully on the Binance Testnet.

There were only two warnings raised:

- The first warning should be made to clarify once again that the Token is not trustless as it depends on the owners to follow through the manual burns.
- The second warning is regarding the gas cost of the functions. Normally this doesn't represent any issues when working on the Binance chain but as the code is compatible with Ethereum, if it gets deployed on said chain, it should be tweaked for performance.

No changes need to be done to the Smart Contract as of 27/06/2021. The audit documents will be updated and the code re-revised as soon as it is deployed on the Mainnet.