



Death Pool Token

RugfreeCoins Verified on August 15th, 2023

Overview

- No mint function found, the owner cannot mint tokens after initial deployment.
- The owner can't set a max transaction limit
- The owner can't pause trading once it's enabled
- X The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.
- The owner can't change fees over 20%.
- The owner can't blacklist wallets.
- The owner can't set a max wallet limit
- The owner can't claim the contract's balance of its own token.

! HIGH SEVERITY ISSUES

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() external onlyOwner {
    tradingActive = true;
    swapEnabled = true;
}
```

Contents

Overview	2
Contents	3
Audit details	4
Disclaimer	5
Background	6
Tokenomics	7
Target market and the concept	8
Potential to grow with score points	9
Contract details	10
Contract code function details	11
Contract description table	12
Inheritance Hierarchy	17
Security issue checking status	18
Owner privileges	20
Audit conclusion	24

Audit details



Audited project

Death Pool Token



Contract Address

0x16a159C4e155388a1E3F7bC6Ee6CA973310B73ed



Client contact

Death Pool Token Team



Blockchain

Binance Smart chain



Project website

https://0xdeathpool.com/

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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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

RugfreeCoins was commissioned by the Death Pool Token Team to perform an audit of the smart contract.

https://bscscan.com/address/0x16a159C4e155388a1E3F7bC6Ee6CA973310B73ed

This audit focuses on verifying that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

Tokenomics

▲ 1% tax when buying

1% of trade goes to the marketing wallet in BNB 0% of trade goes to the Liquidity Pool

▲ 2% tax when selling

2% of trade goes to the marketing wallet in BNB 0% of trade goes to the Liquidity Pool

Target market and the concept

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in taking part in the Death Pool token ecosystem.
- Anyone who's interested in taking part in the future plans of Death Pool Token.
- Anyone who's interested in making financial transactions with any other party using Death Pool Token as the currency.

Potential to grow with score points

→ Project efficiency	8 / 10
* Project uniqueness	7 / 10
Information quality	8 / 10
Service quality	8 / 10
System quality	8 / 10
Mark on the community	8 / 10
impact on the business	9 / 10
Preparing for the future	8 / 10
☐ Smart contract security	9 / 10
	9 / 10
Total Score	8.2 / 10

Contract details

Token contract details for 15th of August 2023

Contract name	DeathPool
Contract address	0x16a159C4e155388a1E3F7bC6Ee6CA973310B73ed
Token supply	1,000,000,000,000
Token ticker	DP
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0x52c44BE2dba61cb688050D0702BA99E440c3185f
Contract's current owner address	0x52c44BE2dba61cb688050D0702BA99E440c3185f

Contract code function details

Nº	Category	Item	Result
		BRC20 Token standards	PASS -
		Compile errors	PASS -
		Compiler version security	PASS -
		Visibility specifiers	PASS -
		Gas consumption	PASS -
1	Coding conventions	SafeMath features	PASS +
		Fallback usage	PASS -
		tx.origin usage	PASS -
		Deprecated items	PASS -
		Redundant code	LOW -
		Overriding variables	PASS +
		Authorization of function call	PASS +
2	Function call audit	Low level function (call/delegate call) security	PASS +
_	runction can addit	Returned value security	PASS +
		Self destruct function security	PASS +
		Access control of owners	HIGH •
3	Business security & centralisation	Business logics	PASS -
		Business implementation	PASS +
4	Integer overflow/underflow		PASS +
5	Reentrancy		PASS +
6	Exceptional reachable state		PASS +
7	Transaction ordering dependence		PASS +
8	Block properties dependence		PASS +
9	Pseudo random number generator (PRNG)		PASS +
10	DoS (Denial of Service)		PASS +
11	Token vesting implementation		PASS -
12	Fake deposit		PASS +
13	Event security		PASS -

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 🔒		
L	_msgData	Internal 🔒		
IUniswapV2Pair	Interface			
L	name	External		NO !
L	symbol	External		NO !
L	decimals	External		NO !
L	totalSupply	External		NO !
L	balanceOf	External !		NO !
L	allowance	External !		NO !
L	approve	External	•	NO !
L	transfer	External !	•	NO !
L	transferFrom	External !	•	NO !
L	DOMAIN_SEPARATOR	External		NO !
L	PERMIT_TYPEHASH	External		NO !
L	nonces	External		NO !
L	permit	External !	•	NO !
L	MINIMUM_LIQUIDITY	External !		NO !
L	factory	External !		NO !
L	token0	External		NO !

L	token1	External		NO !
L	getReserves	External		NO !
L	price0CumulativeLast	External		NO !
L	price1CumulativeLast	External		NO !
L	kLast	External		NO !
L	mint	External	•	NO !
L	burn	External	•	NO !
L	swap	External		NO !
L	skim	External		NO !
L	sync	External	•	NO !
L	initialize	External	•	NO !
IUniswapV2 Factory	Interface			
L	feeTo	External		NO !
L	feeToSetter	External		NO !
L	getPair	External !		NO !
L	allPairs	External		NO !
L	allPairsLength	External		NO !
L	createPair	External	•	NO !
L	setFeeTo	External	•	NO !
L	setFeeToSetter	External	•	NO !
IERC20	Interface			
L	totalSupply	External !		NO !
L	balanceOf	External		NO !
L	transfer	External	•	NO !
				NO.
L	allowance	External		NO !
L L	allowance approve	External !	•	NO !

RC20Metadata	Interface	IERC20		
L	name	External !		NO !
L	symbol	External		NO !
L	decimals	External		NO !
ERC20	Implementation	Context, IERC20, IERC20 Metadata		
L		Public !	•	NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	totalSupply	Public !		NO !
L	balanceOf	Public !		NO !
L	transfer	Public !	•	NO !
L	allowance	Public !		NO !
L	approve	Public !		NO !
L	transferFrom	Public !		NO !
L	increaseAllowance	Public !		NO !
L	decreaseAllowance	Public		NO !
L	_transfer	Internal 🔒		
L	_mint	Internal 🔒		
L	_burn	Internal 🔒		
L	_approve	Internal 🔒		
L	_beforeTokenTransfer	Internal 🔒	•	
SafeMath	Library			
L	add	Internal 🔒		
	adu	internal 1		

L	sub	Internal 🔒		
L	mul	Internal 🔒		
L	div	Internal 🔒		
L	div	Internal 🔓		
L	mod	Internal 🔒		
L	mod	Internal 🔒		
'		<u>'</u>		
Ownable	Implementation	Context		
L		Public		NO !
L	owner	Public !		NO !
L	renounceOwnership	Public !		onlyOwne
L	transferOwnership	Public !		onlyOwne
SafeMathInt	Library			
L	mul	Internal 🔒		
L	div	Internal 🔒		
L	sub	Internal 🔒		
L	add	Internal 🔒		
L	abs	Internal 🔒		
L	toUint256Safe	Internal 🔒		
SafeMathUint	Library			
L	toInt256Safe	Internal 🔒		
IUniswapV2 Router01	Interface			
L	factory	External		NO !
L	WETH	External !		NO !
L	addLiquidity	External		NO !
L	addLiquidityETH	External !	(\$	NO !

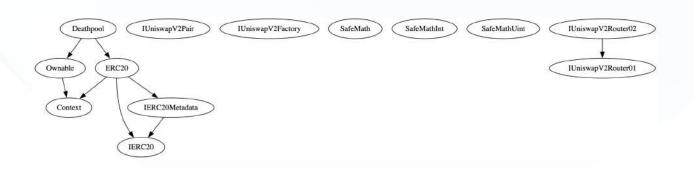
L	removeLiquidity	External		NO !
L	removeLiquidityETH	External		NO !
L	removeLiquidityWithPermit	External		NO !
L	removeLiquidityETHWithPermit	External		NO !
L	swapExactTokensForTokens	External !		NO !
L	swapTokensForExactTokens	External !		NO !
L	swapExactETHForTokens	External !	(\$	NO !
L	swapTokensForExactETH	External	•	NO !
L	swapExactTokensForETH	External		NO !
L	swapETHForExactTokens	External	(\$	NO !
L	quote	External		NO !
L	getAmountOut	External		NO !
L	getAmountIn	External		NO !
L	getAmountsOut	External		NO !
L	getAmountsIn	External !		NO !
IUniswapV2 Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeOnTransferTo kens	External !	•	NO !
L	removeLiquidityETHWithPermitSupportingFeeOn TransferTokens	External	•	NO !
L	swapExactTokensForTokensSupportingFeeOnTr ansferTokens	External	•	NO !
L	swapExactETHForTokensSupportingFeeOnTrans ferTokens	External	(\$	NO !
L	swapExactTokensForETHSupportingFeeOnTrans ferTokens	External	•	NO !
Deathpool	Implementation	ERC20, Ownable		
L		Public !		ERC20
L		External !	(\$ 0)	NO !
L	enableTrading	External		onlyOwne

L	airdropToWallets	External !	onlyOwner
L	decimals	Public !	NO !
L	updateSwapEnabled	External !	onlyOwner
L	updateBFees	External !	onlyOwner
L	updateSFees	External !	onlyOwner
L	updateTransferFees	External !	onlyOwner
L	excludeFromFees	Public !	onlyOwner
L	setAutomatedMarketMakerPair	External !	onlyOwner
L	_setAutomatedMarketMakerPair	Private 🔐	
L	updateMarketingWallet	External	onlyOwner
L	isExcludedFromFees	External !	NO !
L	_transfer	Internal 🔒	
L	swapTokensForEth	Private 🔐	
L	addLiquidity	Private 🔐	
L	resetTaxAmount	Public	onlyOwner
L	swapBack	Private 🔐	

Legend

Symbol	Meaning
	Function can modify state
(\$	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() external onlyOwner {
    tradingActive = true;
    swapEnabled = true;
}
```

Medium severity issues

No medium severity issues found

Low severity issues

The "RewardTriggered" and "OwnerForcedSwapBack" events are not utilized within the contract; thus, these unnecessary events should be removed.

```
event RewardTriggered(uint256 amount);
event OwnerForcedSwapBack(uint256 timestamp);
```

The deployer serves as the initial owner, and within the constructor, an attempt is made to transfer ownership back to the deployer.



Owner privileges

Owner can enable trading, once enabled can not disable again

```
function enableTrading() external onlyOwner {
    tradingActive = true;
    swapEnabled = true;
}
```

Owner can airdrop tokens to users before enabling trading

```
000
   function airdropToWallets(
        address[] memory airdropWallets,
        uint256[] memory amounts
    ) external onlyOwner returns (bool) {
        require(
            !tradingActive,
            "Trading is already active, cannot airdrop after launch."
        );
        require(
            airdropWallets.length == amounts.length,
            "arrays must be the same length"
        );
        require(
            airdropWallets.length < 200,
            "Can only airdrop 200 wallets per txn due to gas limits"
        ); // allows for airdrop + launch at the same exact time, reducing delays
and reducing sniper input.
        for (uint256 i = 0; i < airdropWallets.length; i++) {</pre>
           address wallet = airdropWallets[i];
           uint256 amount = amounts[i];
           _transfer(msg.sender, wallet, amount);
       return true;
   }
```

Owner can enable/disable swapping

```
function updateSwapEnabled(bool enabled) external onlyOwner {
    swapEnabled = enabled;
}
```

Owner can change all buy fees maximum up-to 10%

```
function updateBFees(
    uint256 _marketingFee,
    uint256 _liquidityFee
) external onlyOwner {
    buyMarketingFee = _marketingFee;
    buyLiquidityFee = _liquidityFee;
    buyTotalFees = buyMarketingFee + buyLiquidityFee;
    require(buyTotalFees <= 10, "Must keep fees at 10% or less");
}</pre>
```

Owner can change all sell fees maximum up to 10%

```
function updateSFees(
    uint256 _marketingFee,
    uint256 _liquidityFee
) external onlyOwner {
    sellMarketingFee = _marketingFee;
    sellLiquidityFee = _liquidityFee;
    sellTotalFees = sellMarketingFee + sellLiquidityFee;
    require(sellTotalFees <= 10, "Must keep fees at 10% or less");
}</pre>
```

Owner can change all transfer fees maximum up-to 10%

```
function updateTransferFees(
    uint256 _marketingFee,
    uint256 _liquidityFee
) external onlyOwner {
    transferMarketingFee = _marketingFee;
    transferLiquidityFee = _liquidityFee;
    transferTotalFees = transferMarketingFee + transferLiquidityFee;
    require(transferTotalFees <= 10, "Must keep fees at 10% or less");
}</pre>
```

Owner can include/exclude wallets from fees

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
   _isExcludedFromFees[account] = excluded;
   emit ExcludeFromFees(account, excluded);
}
```

Owner can add/remove new pairs

```
function setAutomatedMarketMakerPair(
   address pair,
   bool value
) external onlyOwner {
   require(
      pair != uniswapV2Pair,
      "The pair cannot be removed from automatedMarketMakerPairs"
);
   _setAutomatedMarketMakerPair(pair, value);
}
```

Owner can change marketing wallet

```
function updateMarketingWallet(
    address newMarketingWallet
) external onlyOwner {
    emit marketingWalletUpdated(newMarketingWallet, marketingWallet);
    marketingWallet = newMarketingWallet;
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testing, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

