

RugFreeCoins Audit



Meme Royale Token
Smart Contract Security Audit
January 5, 2023th

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Audit details





Contract Address

0x7a89fae255957C190ac8552f559be0Ad0401A081



Client contact

Meme Royale Team



Blockchain

Binance Smart chain



Project website

https://www.thememeroyale.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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Overview

- ✓ No mint function found; the owner cannot mint tokens after initial deployment.
- ✓ The owner can set a max to sell limit minimum of up to 0.5%
- ✓ The owner can't pause trading.
- The owner can't set fees over 20%.
- ✓ The owner can set a max wallet limit minimum of up to 1%
- The owner can claim the contract's balance of its own token.
- The owner can blacklist wallets. (with pink antibot)

Background

Rugfreecoins was commissioned by the Meme Royale Team to perform an audit of the smart contract.

https://bscscan.com/token/0x7a89fae255957C190ac8552f559be0Ad0401A081

The focus of this audit is to verify 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.

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Roadmap

Phase 1

- Develop a solid contract for future Certik Audit
- Building community
- Marketing via Tg and twitter crypto influencers
- Presale
- Partner with crypto influencers as brand ambassador
- Game Development started
- NFT started

Phase 2

- Marketing
- Building a strong #Defi infrastructure
- MRoyaleSwap
- \$ROYALE staking pool
- ETH bridge
- Dogechain bridge
- CRO bridge
- BRISE bridge

Phase 3

- Marketing
- NFT Launchpad development
- NFT marketplace Development
- Certik Audit

Phase 4

- Marketing
- Game Beta Release
- Lottery for Beta tester get free Legendary items
- Hold Twitch Beta preview and Testing
- Community gives away

Tokenomics

8% when buying & selling

- 3% of trade goes to marketing wallet in BNB.
- 2% of trade goes to holders' pockets in native tokens.
- 2% of trade goes to the liquidity pool.
- 1% of trade goes to burn wallet.

Target market and the concept

Target market

- 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 of the Meme Royale ecosystem.
- Anyone who's interested in taking part in the future plans of Meme Royale Token.
- Anyone who's interested in making financial transactions with any other party using Meme Royale Token as the currency.

Potential to grow with score points

1.	Project efficiency	9/10
2.	Project uniqueness	9/10
3	Information quality	9/10
4	Service quality	9/10
5	System quality	9/10
6	Impact on the community	9/10
7	Impact on the business	9/10
8	Preparing for the future	8/10
9	Smart contract security	10/10
10	Smart contract functionality assessment	10/10
Total Points		9.1/10

Contract details

Token contract details for 5th of January 2023

Contract name	MemeRoyale
Contract address	0x7a89fae255957C190ac8552f559be0Ad0401A081
Token supply	1,000,000,000,000
Token ticker	ROYALE
Decimals	18
Token holders	1
Transaction count	1
Marketing wallet	0xa3cc159798ff27048d6be496f9571f36d50b2145
Dividend tracker	0xb155660ee5a5d9305ed578b5e8eb0f6e079e4060
Contract deployer address	0x1E42e2dc3EecBCC79e6B1003359ff8f03f8d514D
Contract's current owner address	0xf58a6b99d92dcf0f146a9f630e154436734576c4

Contract code function details

No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	pass
		SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
2	Function call audit	Authorization of function call	pass
		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Self-destruct function security	pass
3	Business security	Access control of owners	pass
		Business logics	pass
		Business implementations	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 pas

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
MemeRoyale	Implementation	BEP20, Auth		
L		Public [Auth BEP20
L		External [ap	NO !
L	_transfer	Internal 🖺		
L	_preTransferCheck	Internal 🖺		
L	_takeFee	Internal 🖺		
L	_shouldTakeFee	Internal 🖺		
L	_shouldSwapBack	Internal 🖺		
L	_swapBack	Internal 🖺		
L	_addLiquidity	Private P		
L	_swapForNative	Internal 🖺		
L	getCirculatingSupply	Public		NO.
L	updateClaimWait	External [onlyOwner
L	getClaimWait	External		NO.

L	updateMinimumTokenBalanceForDiv idends	External	onlyOwner
L	getMinimumTokenBalanceForDivide nds	External [NO
L	claim	External	NO
L	processDividendTracker	External	NO
L	getAccountDividendsInfo	External	NO
L	setReflectionExempt	External	authorized
L	isReflectionExempt	External	NO
L	setAntiBot	External	authorized
L	setSellCooldown	External	authorized
L	setSellCooldownExempt	External	authorized
L	setSwapEnabled	External	authorized
L	setSwapThreshold	External	authorized
L	setFeeExempt	External	authorized
L	setMaxWalletSize	External	authorized
L	setMaxWalletExempt	External	authorized
L	setMaxSellTxSize	External	authorized
L	setMaxSellTxSizeExempt	External	authorized
L	setExempt	External	authorized
L	setAmm	External	authorized
L	setMarketingWallet	External	authorized

L rescueDalance External authorized L rescueNativeBalance External authorized L rescueNativeBalance External authorized L rescueNativeBalance External authorized L tryAdd Internal Interna	L	setFees	External		authorized	
Laternal Catholic Control Co	L	rescueBalance	External		authorized	
SafeMath Library L tryAdd Internal L trySub Internal L tryMul Internal L tryDiv Internal L tryMod Internal L sub Internal L sub Internal L mul Internal L mod Internal L sub Internal L mod	L	rescueOwnBalance	External [authorized	
L tryAdd Internal L trySub Internal L tryMul Internal L tryDiv Internal L tryMod Internal L sub Internal L mul Internal L div Internal L mod In	L	rescueNativeBalance	External		authorized	
L tryAdd Internal L trySub Internal L tryMul Internal L tryDiv Internal L tryMod Internal L sub Internal L mul Internal L div Internal L mod In						
L trySub Internal L tryMul Internal L tryDiv Internal L tryMod Internal L add Internal L sub Internal L mul Internal L div Internal L mod Internal L sub Internal L mod Inter	SafeMath	Library				
L tryMul Internal L L tryDiv Internal L L tryMod Internal L L add Internal L L sub Internal L L mul Internal L L div Internal L L mod Internal L	L	tryAdd	Internal 🦲			
L tryDiv Internal L Internal	L	trySub	Internal 🦺			
L tryMod Internal L Internal	L	tryMul	Internal 🦺			
L add Internal L sub Internal L mul Internal L div Internal L mod Internal L sub Internal L mod Internal L mod Internal Auth Implementation	L	tryDiv	Internal 🦺			
L sub Internal L L mul Internal L L div Internal L L sub Internal L L sub Internal L L sub Internal L L mod Internal L	L	tryMod	Internal 🦺			
L mul Internal L L div Internal L L sub Internal L L div Internal L L mod Internal L	L	add	Internal 🖺			
L div Internal L mod Internal L sub Internal L div Internal L mod Internal L mod Internal Auth Implementation	L	sub	Internal 🖺			
L mod Internal L L sub Internal L L div Internal L L mod Internal L Auth Implementation	L	mul	Internal 🦺			
L sub Internal L L div Internal L L mod Internal L Auth Implementation	L	div	Internal 🦺			
L div Internal L mod Internal L Market Marke	L	mod	Internal 🦺			
L mod Internal Auth Implementation	L	sub	Internal 🖺			
Auth Implementation	L	div	Internal 🖺			
	L	mod	Internal 🖲			
L Public ! NO!	Auth	Implementation				
i l	L		Public [NO	

L	authorize	Public	onlyOwner
L	unauthorize	Public	onlyOwner
L	isOwner	Public	NO.
L	owner	Public .	NO.
L	isAuthorized	Public .	NO.
L	transferOwnership	Public	onlyOwner
BEP20	Implementation	Context, IBEP20, IBEP20 Metadata	
L		Public	NO.
L	name	Public [NO.
L	symbol	Public .	NO.
L	decimals	Public	NO.
L	totalSupply	Public	NO.
L	balanceOf	Public I	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.

	1		1
_transfer	Internal 🦲		
_mint	Internal 🖺		
_burn	Internal 🖺		
_approve	Internal 🖺		
_spendAllowance	Internal 🖺		
_beforeTokenTransfer	Internal 🖺		
_afterTokenTransfer	Internal 🖺		
Implementation			
_msgSender	Internal 🖺		
_msgData	Internal 🖺		
	<u> </u>		
Interface			
totalSupply	External		NO
balanceOf	External [NO
transfer	External [NO
allowance	External [NO
approve	External [NO
transferFrom	External [NO.
Interface	IBEP20		
name	External		NO.
	mintburnapprovespendAllowancebeforeTokenTransferafterTokenTransfer ImplementationmsgSendermsgData Interface totalSupply balanceOf transfer allowance approve transferFrom Interface	mint	_mint

L	symbol	External		NO
L	decimals	External		NO.
		<u>.</u>		
IDEXFactory	Interface			
L	createPair	External [NO.
IDEXRouter	Interface			
L	factory	External		NO.
L	WETH	External		NO.
L	addLiquidity	External		NO.
L	addLiquidityETH	External	C	NO
L	swapExactTokensForTokensSupport ingFeeOnTransferTokens	External [NO.
L	swapExactETHForTokensSupporting FeeOnTransferTokens	External 🌡	ű Þ	NO.
L	swapExactTokensForETHSupporting FeeOnTransferTokens	External [NO.
		<u>, </u>		
IPinkAntiBot	Interface			
L	setTokenOwner	External		NO !
L	onPreTransferCheck	External		NO
SafeBEP20	Library			
L	safeTransfer	Internal 🖺		
L	safeTransferFrom	Internal 🖺		

	T		
L	safeApprove	Internal 🦺	
L	safeIncreaseAllowance	Internal 🖺	
L	safeDecreaseAllowance	Internal 🖺	
L	_callOptionalReturn	Private 🖺	
Address	Library		
L	isContract	Internal 🖺	
L	sendValue	Internal 🖺	
L	functionCall	Internal 🖺	
L	functionCall	Internal 🖺	
L	functionCallWithValue	Internal 🖺	
L	functionCallWithValue	Internal 🖺	
L	functionStaticCall	Internal 🖺	
L	functionStaticCall	Internal 🦺	
L	functionDelegateCall	Internal 🦺	
L	functionDelegateCall	Internal 🦺	
L	verifyCallResult	Internal 🦺	
MemeRoyale	Implementation	Auth,	
Dividend	implementation	Dividend	
Tracker		Paying	
ilackei		Token	
L		Public	Auth
			Dividend
			Paying
			 Token

L	_transfer	Internal 🦺	
L	withdrawDividend	Public	NO
L	distributeDividends	External	onlyOwner
L	excludeFromDividends	External	onlyOwner
L	includeInDividends	External	onlyOwner
L	isExcludedFromDividends	Public	NO
L	updateClaimWait	External	onlyOwner
L	updateMinimumTokenBalanceForDiv idends	External	onlyOwner
L	getLastProcessedIndex	External	NO
L	getNumberOfTokenHolders	External [NO
L	getAccount	Public	NO
L	getAccountAtIndex	Public	NO
L	canAutoClaim	Private 🖺	
L	setBalance	External [onlyOwner
L	process	Public	NO
L	processAccount	Public	onlyOwner
Dividend PayingToken	Implementation	ERC20 Mintable, IDividend PayingToke n, IDividend PayingToke nOptional	
L		Public	ERC20Mint able

L	distribute	Internal 🖺	
L	withdrawDividend	Public [NO
L	_withdrawDividendOfUser	Internal 🖺	
L	dividendOf	Public [NO
L	withdrawableDividendOf	Public [NO
L	withdrawnDividendOf	Public [NO
L	accumulativeDividendOf	Public [NO
L	_transfer	Internal 🖺	
L	_mint	Internal 🖺	
L	_burn	Internal 🖺	
L	_setBalance	Internal 🖺	
			•
ERC20Preset MinterPauser	Implementation	Context, Access Control Enumerable , ERC20 Burnable, ERC20Paus able	
L		Public [ERC20
L	mint	Public	NO
L	pause	Public	NO
L	unpause	Public	NO
L	_beforeTokenTransfer	Internal 🖺	

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	_spendAllowance	Internal 🖺	
L	_beforeTokenTransfer	Internal 🖺	
L	_afterTokenTransfer	Internal 🖺	

IERC20	Interface		
L	totalSupply	External	NO
L	balanceOf	External	NO
L	transfer	External	NO
L	allowance	External [NO
L	approve	External	NO
L	transferFrom	External [NO
IERC20 Metadata	Interface	IERC20	
L	name	External [NO
L	symbol	External [NO
L	decimals	External [NO
ERC20 Burnable	Implementation	Context, ERC20	
L	burn	Public	NO
L	burnFrom	Public .	NO
ERC20 Pausable	Implementation	ERC20, Pausable	
L	_beforeTokenTransfer	Internal 🦺	
,			
Pausable	Implementation	Context	

L		Public .	NO
L	paused	Public	NO
L	_requireNotPaused	Internal 🖺	
L	_requirePaused	Internal 🖺	
L	_pause	Internal 🖺	whenNot Paused
L	_unpause	Internal 🦲	When Paused
Access Control Enumerable	Implementation	IAccess Control Enumerable , Access Control	
L	supportsInterface	Public	NO
L	getRoleMember	Public	NO
L	getRoleMemberCount	Public	NO
L	_grantRole	Internal 🖺	
L	_revokeRole	Internal 🖺	
IAccess Control Enumerable	Interface	IAccess Control	
L	getRoleMember	External .	NO
L	getRoleMemberCount	External	NO
IAccess Control	Interface		

L	hasRole	External [NO
L	getRoleAdmin	External	NO
L	grantRole	External [NO
L	revokeRole	External [NO
L	renounceRole	External [NO
Access Control	Implementation	Context, IAccess Control, ERC165	
L	supportsInterface	Public	NO
L	hasRole	Public	NO
L	_checkRole	Internal 🖺	
L	_checkRole	Internal 🖺	
L	getRoleAdmin	Public	NO
L	grantRole	Public [onlyRole
L	revokeRole	Public	onlyRole
L	renounceRole	Public	NO
L	_setupRole	Internal 🖺	
L	_setRoleAdmin	Internal 🖺	
L	_grantRole	Internal 🖺	
L	_revokeRole	Internal 🖺	
Strings	Library		

L	toString	Internal 🦺	
L	toHexString	Internal 🖺	
L	toHexString	Internal 🖺	
L	toHexString	Internal 🖺	
ERC165	Implementation	IERC165	
L	supportsInterface	Public	NO
IERC165	Interface		
L	supportsInterface	External	NO
Enumerable Set	Library		
L	_add	Private P	
L	_remove	Private P	
L	_contains	Private P	
L	_length	Private P	
L	_at	Private P	
L	_values	Private P	
L	add	Internal 🖺	
L	remove	Internal 🖺	
L	contains	Internal 🖺	
L	length	Internal 🖺	

L	at	Internal 🖺	
L	values	Internal 🖺	
L	add	Internal 🖺	
L	remove	Internal 🖺	
L	contains	Internal 🖺	
L	length	Internal 🖲	
L	at	Internal 🖺	
L	values	Internal 🖺	
L	add	Internal 🖺	
L	remove	Internal 🖺	
L	contains	Internal 🖺	
L	length	Internal 🖺	
L	at	Internal 🖺	
L	values	Internal 🖺	
ERC20 Mintable	Implementation	Context, Access Control Enumerable , ERC20 Burnable	
L		Public	ERC20
L	mint	Public	NO
SafeMathInt	Library		

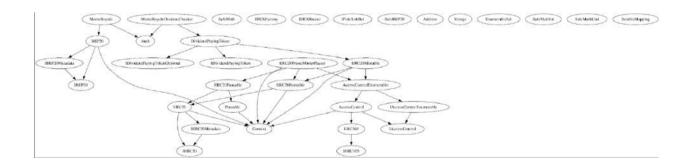
L	mul	Internal 🦺	
L	div	Internal 🦺	
L	sub	Internal 🖺	
L	add	Internal 🖺	
L	abs	Internal 🖺	
L	toUint256Safe	Internal 🖺	
		<u> </u>	
SafeMathUint	Library		
L	toInt256Safe	Internal 🖺	
IDividend PayingToken	Interface		
L	dividendOf	External	NO
L	withdrawDividend	External	NO
IDividend PayingToken Optional	Interface		
L	withdrawableDividendOf	External .	NO
L	withdrawnDividendOf	External .	NO
L	accumulativeDividendOf	External .	NO
Iterable Mapping	Library		
L	get	Public	NO

L	getIndexOfKey	Public	NO
L	getKeyAtIndex	Public	NO
L	size	Public	NO.
L	set	Public	NO.
L	remove	Public	NO

Legend

Symbol	Meaning
	Function can modify state
81 D	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues

Deposit function is missing in reward contract

Informed and fixed

To calculate dividend there should be a deposit function and that function should call from the token contract when it transfers reward tokens to the reward tracker, and inside deposit function it should calculate dividend per share value, currently dividend per share value is not getting calculated. Hence, rewards are not getting processed.

- Medium severity issues
 No medium severity issues found
- Low severity issues

Duplicating variables

Informed and fixed

When calling _preTransferCheck function it is the passing amount and amountAfterFees variables but in this point both amount and amountAfterFees values will always same, no need to pass two variables

```
bool takeFee = _shouldTakeFee(from 1, to 1);
uint256 amountAfterFees = amount 1;
_preTransferCheck(from 1, to 1, amount 1, amountAfterFees);
```

❖ Centralization Risk

Auto LP does not go to an unreachable address

Informed and fixed

Owner privileges

The owner can change minimum waiting period for receive rewards

```
ftrace|funcSig
function updateClaimWait(uint256 claimWait1) external onlyOwner {
    dividendTracker.updateClaimWait(claimWait1);
}
```

The owner can change minimum token amount to have receive rewards

The owner can include/exclude wallets from rewards

```
ftrace|funcSig
function setReflectionExempt(address holder1, bool exempt1) external authorized
{
    if (exempt1) {
        dividendTracker.excludeFromDividends(holder1);
    } else {
        dividendTracker.includeInDividends(holder1, balanceOf(holder1));
    }
}
```

The owner can enable/disable pink antibot

```
ftrace|funcSig
function setAntiBot(bool nextEnabled1) external authorized {
    require(pinkAntiBotEnabled!= nextEnabled1, "MRO: value-already-set");
    pinkAntiBotEnabled = nextEnabled1;
}
```

❖ The owner can enable/disable sell cool down and can change sell cool down time maximum up to 1 min

❖ The owner can include/exclude wallets from sell cool down

The owner can change the swap point

```
ftrace|funcSig
function setSwapThreshold(uint256 nextThreshold1) external authorized {
    require(swapThreshold!= nextThreshold1, "MRO: value-already-set");
    swapThreshold = nextThreshold1;
}
```

❖ The owner can change max wallet size minimum up to 1%

```
ftrace|funcSig
function setMaxWalletSize(uint256 nextMaxWalletPerc1) external authorized {
    require(nextMaxWalletPerc1 >= 100, "MRO: max-wallet-lt-1-perc");

    uint256 nextMaxWalletSize = TOTAL_SUPPLY.div(10000).mul(
        nextMaxWalletPerc1
    );
    emit MaxWalletSizeUpdated(maxWalletSize, nextMaxWalletSize);
    maxWalletSize = nextMaxWalletSize;
}
```

❖ The owner can include/exclude wallets from max wallet size

```
ftrace|funcSig
function setMaxWalletExempt(address holder1, bool exempt1)
    external
    authorized
{
    require(_maxWalletExempt[holder1] != exempt1, "MRO: already-set");
    _maxWalletExempt[holder1] = exempt1;
}
```

❖ The owner can change max sell amount maximum up to 0.5%

The owner include/exclude wallets from max sell limit

```
ftrace|funcSig
function setMaxSellTxSizeExempt(address holder1, bool exempt1)
    external
    authorized
{
    require(_maxSellTxSizeExempt[holder1]!= exempt1, "MRO: already-set");
    _maxSellTxSizeExempt[holder1] = exempt1;
}
```

The owner can add/remove new pairs

```
ftrace[funcSig
function setAmm(address amm1, bool isMaker1) external authorized {
    require(amms[amm1] != isMaker1, "MRO: already-set");

amms[amm1] = isMaker1;

if (isMaker1) {
    dividendTracker.excludeFromDividends(amm1);
} else {
    dividendTracker.includeInDividends(amm1, balanceOf(amm1));
}
```

The owner can change marketing wallet address

The owner can change all fees, total fees maximum up to 20% and each fees maximum up to 10%

```
uint256 nextMarketingFee1,
   uint256 nextReflectionFee1,
   uint256 nextBurnFee*,
   uint256 nextLiquidityFee1
) external authorized {
      (nextMarketingFee # +
          nextReflectionFee +
          nextBurnFee * +
          nextLiquidityFee 1 (= 2000,
      "MRO: fees-exceed-20p"
      nextMarketingFee🕯 <= 1000 &&
          nextReflectionFee  <= 1000 &&
          nextBurnFee* <= 1000 &&
          nextLiquidityFee  <= 1000,
       "MRO: single-fee-exceeds-10p"
   marketingFee = nextMarketingFee1;
    reflectionFee = nextReflectionFee1;
   burnFee = nextBurnFee*;
   liquidityFee = nextLiquidityFee1;
       totalFees,
       nextMarketingFee1 +
          nextBurnFee 🛊 🗰
          nextLiquidityFee1
      nextMarketingFee🕈 +
      nextReflectionFee* +
      nextBurnFee* +
       nextLiquidityFee1;
```

The owner can take any bep20 tokens in the contract

```
ftrace|funcSig
function rescueBalance(IBEP20 token ), uint256 percentage )
    external
    authorized
{
    require(
        percentage ) >= 0 && percentage  <= 100,
        "MRO: value-not-between-0-and-100"
);

    uint256 balance = token .balanceOf(address(this));

    require(balance > 0, "MRO: contract-has-no-balance");
    token .transfer(_msgSender(), balance.mul(percentage ).div(100));
}
```

The owner can take native tokens from the contract

```
ftrace|funcSig
function rescueOwnBalance(uint256 percentage1) external authorized {
    require(
        percentage1 >= 0 && percentage1 <= 100,
        "MRO: value-not-between-0-and-100"
    );

    uint256 amount = balanceOf(address(this));

    super._transfer(
        address(this),
        _msgSender(),
        amount.mul(percentage1).div(100)
    );
}</pre>
```

Audit conclusion

RugFreeCoins team has performed in-depth testings, 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.

Smart contract functional Status: PASS

Number of risk issues: 0

Solidity code functional issue level: PASS

Number of owner privileges: 16

Centralization risk correlated to the active owner: NONE

Smart contract active ownership: ACTIVE