



Grok Bull Token

RugfreeCoins Verified on December 26th, 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
- ✗ 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 10%.
- ✓ 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 {
    require(!tradingEnabled, "Trading is already enabled");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

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Audit details



Audited project
Grok Bull Token



Contract Address
0xe4B3Ada498ef476fbFd4aC30C41fF5d63dd3D1E2



Client contact
Grok Bull Token Team



Blockchain
Binance Smart chain



Project website
<http://grokbull.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 **Grok Bulk Token Team** to perform an audit of the smart contract.

<https://bscscan.com/token/0xe4b3ada498ef476fbfd4ac30c41ff5d63dd3d1e2>

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

▲ 5% tax when buying & selling

3% of trade goes to the marketing wallet in BNB












1% of trade goes to the dev wallet in BNB

1% 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 Grok Bull token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Grok Bull Token.
- ▶ Anyone who's interested in making financial transactions with any other party using Grok Bull Token as the currency.

Potential to grow with score points

 Project efficiency	8 / 10
 Project uniqueness	8 / 10
 Information quality	8 / 10
 Service quality	8 / 10
 System quality	8 / 10
 Impact on the community	8 / 10
 Impact on the business	9 / 10
 Preparing for the future	8 / 10
 Smart contract security	9 / 10
 Smart contract functionality assessment	10 / 10
 Total Score	8.4 / 10

Contract details

Token contract details for 26th of December 2023










Contract name	Grok Bull
Contract address	0xe4B3Ada498ef476fbFd4aC30C41fF5d63dd3D1E2
Token supply	420,000,000,000,000,000
Token ticker	GrokBull
Decimals	9
Token holders	1
Transaction count	1
Contract deployer address	0x9D2346171Eb8f974FFC4CF50a4a9912443a19952
Contract's current owner address	0x9D2346171Eb8f974FFC4CF50a4a9912443a19952
Marketing wallet	0x4Db6f94880B53A6757689ca8B8CC88d0Ccfe05B7
Dev Tracker	0x9D2346171Eb8f974FFC4CF50a4a9912443a19952








Contract code function details







Nº	Category	Item	Result
1	Coding conventions	ERC20 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 ▾
2	Function call audit	Overriding variables	PASS ▾
		Authorization of function call	PASS ▾
		Low level function (call/delegate call) security	PASS ▾
		Returned value security	PASS ▾
3	Business security & centralisation	Self destruct function security	PASS ▾
		Access control of owners	HIGH ISSUE ▾
		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	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L		Public !		NO !
L	_msgSender	Internal 		
L	_msgData	Internal 		
Ownable	Implementation	Context		
L		Public !		NO !
L	owner	Public !		NO !
L	renounceOwnership	Public !		onlyOwner
L	transferOwnership	Public !		onlyOwner
L	_setOwner	Private 		
IFactoryV2	Interface			
L	getPair	External !		NO !
L	createPair	External !		NO !
IV2Pair	Interface			
L	factory	External !		NO !

L	getReserves	External !		NO !
L	sync	External !		NO !
IRouter01	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidityETH	External !		NO !
L	addLiquidity	External !		NO !
L	swapExactETHForTokens	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External !		NO !
IRouter02	Interface	IRouter01		
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO !
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokens	External !		NO !
IERC20	Interface			
L	totalSupply	External !		NO !
L	decimals	External !		NO !

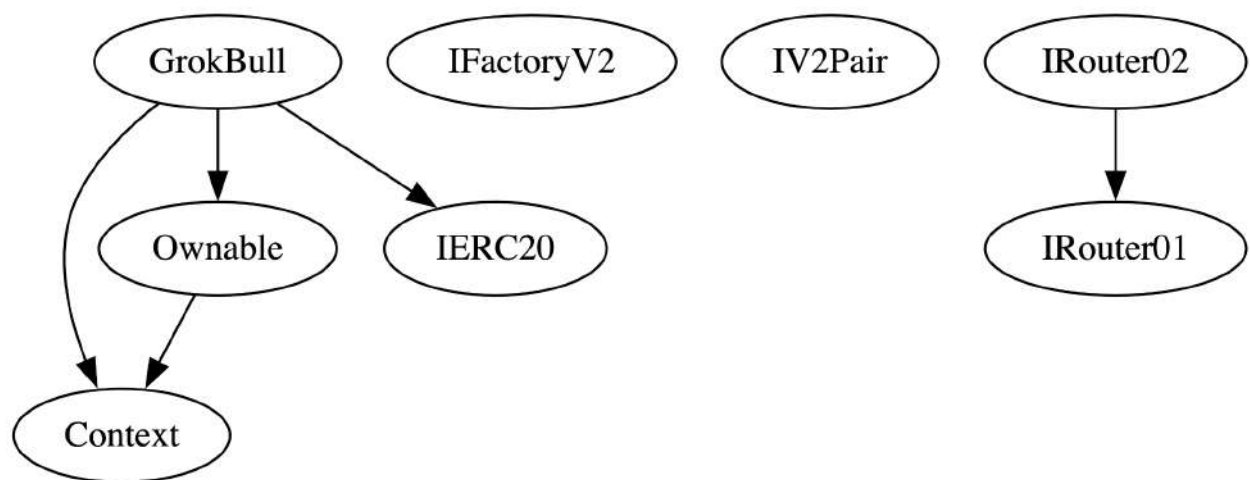
L	symbol	External !		NO !
L	name	External !		NO !
L	getOwner	External !		NO !
L	balanceOf	External !		NO !
L	transfer	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External !		NO !
GrokBull	Implementation	Context, Ownable, IERC20		
L	totalSupply	External !		NO !
L	decimals	External !		NO !
L	symbol	External !		NO !
L	name	External !		NO !
L	getOwner	External !		NO !
L	allowance	External !		NO !
L	balanceOf	Public !		NO !
L		Public !		NO !
L		External !		NO !
L	transfer	Public !		NO !

L	approve	External !		NO !
L	_approve	Internal 		
L	transferFrom	External !		NO !
L	isNoFeeWallet	External !		NO !
L	setNoFeeWallet	Public !		onlyOwner
L	isLimitedAddress	Internal 		
L	is_buy	Internal 		
L	is_sell	Internal 		
L	canSwap	Internal 		
L	changeLpPair	External !		onlyOwner
L	toggleCanSwapFees	External !		onlyOwner
L	_transfer	Internal 		
L	changeWallets	External !		onlyOwner
L	takeTaxes	Internal 		
L	swapAndLiquify	Internal 		inSwapFlag
L	internalSwap	Internal 		inSwapFlag
L	setPresaleAddress	External !		onlyOwner
L	enableTrading	External !		onlyOwner

Legend

Symbol	Meaning
🛑	Function can modify state
💰	Function is payable

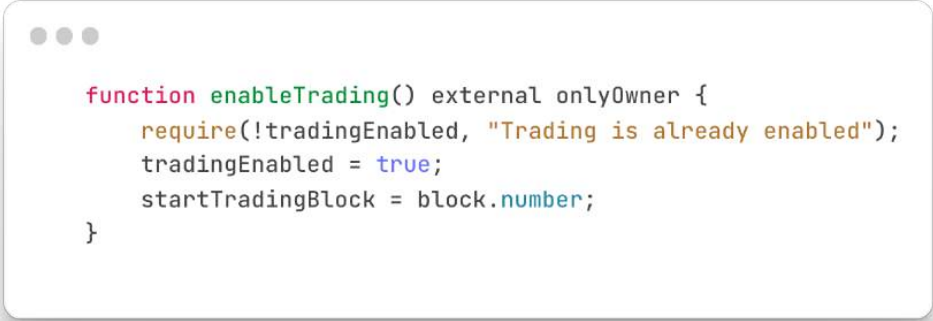
Inheritance Hierarchy



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 {  
    require(!tradingEnabled, "Trading is already enabled");  
    tradingEnabled = true;  
    startTradingBlock = block.number;  
}
```

❖ Medium severity issues

No medium severity issues found

❖ Low severity issues

No low severity issues found

Owner privileges

- ❖ The owner can include/exclude wallet from fees

```
function setNoFeeWallet(address account, bool enabled) public onlyOwner {  
    _noFee[account] = enabled;  
}
```

- ❖ The owner can add a new LP pair

```
function changeLpPair(address newPair) external onlyOwner {  
    isLpPair[newPair] = true;  
    emit _changePair(newPair);  
}
```

- ❖ The owner can enable/disable swapping

```
function toggleCanSwapFees(bool yesno) external onlyOwner {  
    require(canSwapFees != yesno, "Bool is the same");  
    canSwapFees = yesno;  
    emit _toggleCanSwapFees(yesno);  
}
```

- ❖ The owner can change marketing and dev wallet address

```
function changeWallets(address newBuy, address newDev) external onlyOwner {  
    require(newBuy != address(0), "Freddy: Address Zero");  
    require(newDev != address(0), "Freddy: Address Zero");  
    marketingAddress = payable(newBuy);  
    devWallet = payable(newDev);  
    emit _changeWallets(newBuy, newDev);  
}
```

- ❖ The owner can add/remove pre-sale address

```
function setPresaleAddress(address presale, bool yesno) external onlyOwner {  
    require(isPresaleAddress[presale] != yesno, "Same bool");  
    isPresaleAddress[presale] = yesno;  
    _noFee[presale] = yesno;  
    liquidityAdd[presale] = yesno;  
    emit _setPresaleAddress(presale, yesno);  
}
```

- ❖ The owner can enable trading, but once enabled can not disable it again

```
function enableTrading() external onlyOwner {  
    require(!isTradingEnabled, "Trading already enabled");  
    isTradingEnabled = true;  
    emit _enableTrading();  
}
```

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.

Smart contract functional Status:	PASS ▾
Smart contract security Status:	HIGH ISSUES ▾
Number of risk issues:	1
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	6
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾