



RUGFREECOINS



Blast Domains Token

RugfreeCoins Verified on February 05th, 2024

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.
- ✓ 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(!isTradeEnabled, "Trading already enabled");
    isTradeEnabled = true;
    launchedAt = block.timestamp;
}
```

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.....	18
Security issue checking status.....	19
Owner privileges.....	20
Audit conclusion.....	23

Audit details



Audited project

Blast Domains Token



Contract Address

0x35404bCF27188e7252DF6b723A06969A3c04501C



Client contact

Blast Domains Token Team



Blockchain

Ethereum Mainnet



Project website

<https://www.blastdomains.org/>

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 **Blast Domains Token Team** to perform an audit of the smart contract.

<https://etherscan.io/address/0x35404bCF27188e7252DF6b723A06969A3c04501C#code>

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

▲ 3% tax when buying

2% of trade goes to the treasury wallet in ETH

1% of trade goes to the marketing wallet in ETH

▲ 4% tax when selling












2% of trade goes to the treasury wallet in ETH

2% of trade goes to the marketing wallet in ETH

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 Blast Domains token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Blast Domains Token.
- ▶ Anyone who's interested in making financial transactions with any other party Blast Domains Token as the currency.

Potential to grow with score points

 Project efficiency	10 / 10
 Project uniqueness	10 / 10
 Information quality	10 / 10
 Service quality	10 / 10
 System quality	10 / 10
 Impact on the community	10 / 10
 Impact on the business	10 / 10
 Preparing for the future	10 / 10
 Smart contract security	9 / 10
 Smart contract functionality assessment	10 / 10
 Total Score	9.9 / 10

Contract details

Token contract details for 05th of February 2024



Contract name	Blast Domains
Contract address	0x35404bCF27188e7252DF6b723A06969A3c04501C
Token supply	10,000,000,000
Token ticker	BD
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0x17D53aC59a9f1F399584cbba850a772b4f526937
Contract's current owner address	0x17D53aC59a9f1F399584cbba850a772b4f526937
Treasury wallet	0x75756306Fdd4d6b83B0c91463ac6050D92ca4d34
Marketing wallet	0x17D53aC59a9f1F399584cbba850a772b4f526937




































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 ▾
		Self destruct function security	PASS ▾
3	Business security & centralisation	Access control of owners	HIGH ▾
		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
BD	Implementation	IERC20, Ownable		
L		Public !		NO !
L		External !		NO !
L	totalSupply	External !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	balanceOf	Public !		NO !
L	allowance	External !		NO !
L	approve	Public !		NO !
L	_approve	Internal 		
L	approveMax	External !		NO !
L	transfer	External !		NO !
L	transferFrom	External !		NO !
L	_transferFrom	Internal 		
L	takeFee	Internal 		

L	_basicTransfer	Internal 		
L	shouldTakeFee	Internal 		
L	shouldDoContractSwap	Internal 		
L	isFeeExcluded	Public 		NO 
L	doContractSwap	Internal 		swapping
L	swapTokensForEth	Private 		
L	setIsFeeExempt	External 		onlyOwner
L	setDoContractSwap	External 		onlyOwner
L	changeMarketingWallet	External 		onlyOwner
L	changeTreasuryWallet	External 		onlyOwner
L	changeSellFees	External 		onlyOwner
L	changeBuyFees	External 		onlyOwner
L	enableTrading	External 		onlyOwner
L	setAuthorizedWallets	External 		onlyOwner
L	rescueETH	External 		onlyOwner
L	toggleTransferTax	External 		onlyOwner
Ownable	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	_checkOwner	Internal 		



L	renounceOwnership	Public !		onlyOwner
L	transferOwnership	Public !		onlyOwner
L	_transferOwnership	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 !
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
L	_contextSuffixLength	Internal 		
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 !
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 !

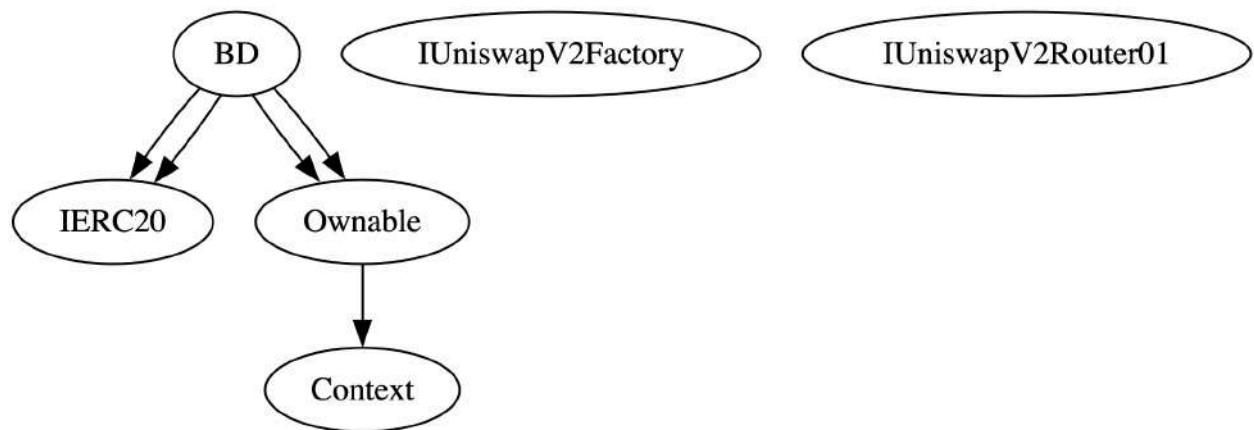
L	quote	External !		NO !
L	getAmountOut	External !		NO !
L	getAmountIn	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External !		NO !
BD	Implementation	IERC20, Ownable		
L		Public !		NO !
L		External !		NO !
L	totalSupply	External !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	balanceOf	Public !		NO !
L	allowance	External !		NO !
L	approve	Public !		NO !
L	_approve	Internal 		
L	approveMax	External !		NO !
L	transfer	External !		NO !
L	transferFrom	External !		NO !
L	_transferFrom	Internal 		
L	takeFee	Internal 		

L	_basicTransfer	Internal 		
L	shouldTakeFee	Internal 		
L	shouldDoContractSwap	Internal 		
L	isFeeExcluded	Public 		NO 
L	doContractSwap	Internal 		swapping
L	swapTokensForEth	Private 		
L	setIsFeeExempt	External 		onlyOwner
L	setDoContractSwap	External 		onlyOwner
L	changeMarketingWallet	External 		onlyOwner
L	changeTreasuryWallet	External 		onlyOwner
L	changeSellFees	External 		onlyOwner
L	changeBuyFees	External 		onlyOwner
L	enableTrading	External 		onlyOwner
L	setAuthorizedWallets	External 		onlyOwner
L	rescueETH	External 		onlyOwner
L	toggleTransferTax	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(!isTradeEnabled, "Trading already enabled");  
    isTradeEnabled = true;  
    launchedAt = block.timestamp;  
}
```

❖ Medium severity issues

No medium severity issues found

❖ Low severity issues

No high severity issues found

Owner privileges

- ❖ Owner can include/exclude wallets from fees

```
function setIsFeeExempt(address holder, bool exempt) external onlyOwner {  
    require(holder != address(0), "Invalid address");  
    isFeeExempt[holder] = exempt;  
  
    emit SetIsFeeExempt(holder, exempt);  
}
```

- ❖ Owner can enable/disable swapping

```
function setDoContractSwap(bool _enabled) external onlyOwner {  
    contractSwapEnabled = _enabled;  
  
    emit SetDoContractSwap(_enabled);  
}
```

- ❖ Owner can change marketing and treasury wallet

```
function changeMarketingWallet(address _wallet) external onlyOwner {  
    require(_wallet != address(0), "Invalid address");  
    marketingWallet = _wallet;  
}  
  
function changeTreasuryWallet(address _wallet) external onlyOwner {  
    require(_wallet != address(0), "Invalid address");  
    treasuryWallet = _wallet;  
}
```

- ❖ Owner can change buy and sell fees each up to 10%

```
function changeSellFees(
    uint256 _sellTreasuryFee,
    uint256 _sellMarketingFee
) external onlyOwner {
    sellTreasuryFee = _sellTreasuryFee;
    sellMarketingFee = _sellMarketingFee;

    sellTotalFee = _sellTreasuryFee + _sellMarketingFee;

    require(sellTotalFee <= 10, "Cannot be greater than 10%");
}

function changeBuyFees(
    uint256 _buyTreasuryFee,
    uint256 _buyMarketingFee
) external onlyOwner {
    buyTreasuryFee = _buyTreasuryFee;
    buyMarketingFee = _buyMarketingFee;
    buyTotalFee = _buyTreasuryFee + _buyMarketingFee;

    require(buyTotalFee <= 10, "Cannot be greater than 10%");
}
```

- ❖ Owner can enable trading,once enabled can not disable again

```
function enableTrading() external onlyOwner {
    require(!isTradeEnabled, "Trading already enabled");
    isTradeEnabled = true;
    launchedAt = block.timestamp;
}
```

- ❖ Owner can add/remove authorized wallets

```
function setAuthorizedWallets(
    address _wallet,
    bool _status
) external onlyOwner {
    require(_wallet != address(0), "Invalid address");
    isAuthorized[_wallet] = _status;
    emit AddAuthorizedWallet(_wallet, _status);
}
```

- ❖ Owner can get ETH from the contract

```
function rescueETH() external onlyOwner {
    uint256 balance = address(this).balance;
    require(balance > 0, "No ETH to transfer");
    (bool success, ) = payable(msg.sender).call{value: balance}("");
    require(success, "ETH transfer failed");

    emit ETHRescued(balance);
}
```

- ❖ Owner can enable/disable getting tax on transfers

```
function toggleTransferTax() external onlyOwner {
    getTransferFee = !getTransferFee;
    emit TransferTaxToggled(getTransferFee);
}
```

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:	01
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	08
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾