RugFreeCoins Audit

Trump Token
Smart Contract Security Audit

July 8th ,2023

Overview

✅No mint function found, the owner cannot mint tokens after initial deployment.

✅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 blacklist wallets.

✅The owner can't set a max wallet limit

✅The owner can't claim the contract’s balance of its own token.

✅The owner can't change fees by more than 20%.

✅ The owner can't set a max transaction limit

- **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(!isTradingEnabled, "Trading already enabled");
    isTradingEnabled = true;
    emit _enableTrading();
}
```

Contents

Audit details

Audited project
Trump Token

Contract Address
0x27C45e9C28B53d8239d7c03ef36842651E310aea

Client contact
Trump Token Team

Blockchain
Binance Smart chain

Project website
https://trumpbsctoken.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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Background

Rugfreecoins was commissioned by the Trump Token Team to perform an audit of the smart contract.

https://bscscan.com/token/0x27c45e9c28b53d8239d7c03ef36842651e310aea

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

0% tax when buying

4% tax when selling

- 4% of trade goes to the marketing wallet in BNB

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

Potential to grow with score points

1.	Project efficiency	8/10
2.	Project uniqueness	8/10
3	Information quality	8/10
4	Service quality	8/10
5	System quality	8/10
6	Impact on the community	8/10
7	Impact on the business	9/10
8	Preparing for the future	8/10
9	Smart contract security	9/10
10	Smart contract functionality assessment	10/10
Total Points		**8.4/10**

Contract details

Token contract details for 8th of July 2023

Contract name	TRUMP
Contract address	0x27C45e9C28B53d8239d7c03ef36842651E310aea
Token supply	470,000,000,000,000,000
Token ticker	TRUMP
Decimals	9
Token holders	1
Transaction count	1
Contract deployer address	0x61291e73A24A1065a4b7143ecEecCebAB1CC94eB
Contract's current owner address	0x61291e73a24a1065a4b7143eceeccebab1cc94eb

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
		Selfdestruct function security	pass
3	Business security & centralization	Access control of owners	HIGH
		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**		**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	swapExactTokensForETHSupportingFeeOn TransferTokens	External !		NO !
L	swapExactETHForTokensSupportingFeeOn TransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFee OnTransferTokens	External !		NO !
L	swapExactTokensForTokens	External !		NO !
IERC20	**Interface**			
L	totalSupply	External !		NO !

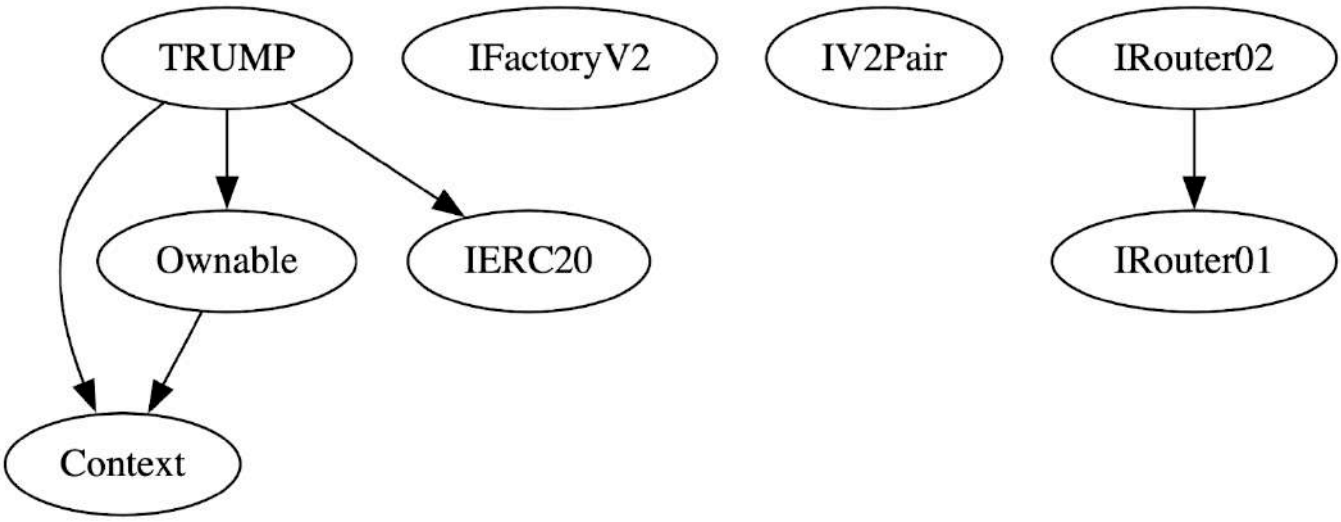
L	decimals	External !		NO !
L	symbol	External !		NO !
L	name	External !		NO !
L	getOwner	External !		NO !
L	balanceOf	External !		NO !
L	transfer	External !	🛑	NO !
L	allowance	External !		NO !
L	approve	External !	🛑	NO !
L	transferFrom	External !	🛑	NO !
TRUMP	**Implementation**	**Context, Ownable, IERC20**		
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	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(!isTradingEnabled, "Trading already enabled");
    isTradingEnabled = true;
    emit _enableTrading();
}
```

- **Medium severity issues**
  No medium severity issues found

- **Low severity issues**
  No low severity issues found

- **Centralization Risk**
  No Centralization issues found

Owner privileges

- The owner can add/remove wallets from fees

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

- The owner can add a new lp address

```
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 wallet

```
function changeWallets(address marketing) external onlyOwner {
    marketingAddress = payable(marketing);
    emit _changeWallets(marketing);
}
```

❖ The owner can whitelist pre-sale wallet to do transactions before enabling trading

```
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 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: **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**