

Audit Report Trump Tweets

November 2022

Type BEP20

Network BSC

Address 0xad7B8e6486d04B84f66Cc9750fd1a4fc214Bd8FC

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Contract Review

Contract Name	Trump_Tweets
Compiler Version	v0.8.7+commit.e28d00a7
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xad7B8e6486d04B84f66Cc 9750fd1a4fc214Bd8FC
Symbol	TrumpTweets
Decimals	9
Total Supply	150,000,000
Domain	trumptweetsbsc.com

Source Files

Filename	SHA256
contract.sol	dc784411961283597503672733fe3e85951fffa999d3772e 13c1af753882b259

Audit Updates

Initial Audit	3rd December 2022 https://github.com/cyberscope-io/audits/tree/main/trump tweets/v1/audit.pdf
Corrected	5th December 2022



Contract Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Unresolved
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Unresolved
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Unresolved



ST - Stops Transactions

Criticality	critical
Location	Trump_Tweets.sol
Status	Unresolved

Description

The contract owner has the authority to stop the sales for all users excluding the owner. As a result, the contract may operate as a honeypot. The owner may take advantage of it by setting:

- The cooldownTimerInterval to a huge value.
- The _maxSellTxAmount to zero.
- The maxBuyTxAmount to zero.
- The tradingOpen to false.
- The _maxWalletToken to zero.

```
require(cooldownTimer[recipient] < block.timestamp,"Please wait between two
buys");
cooldownTimer[recipient] = block.timestamp + cooldownTimerInterval;

if(isSell){
    require(amount <= _maxSellTxAmount || isTxLimitExempt[sender] ||
isTxLimitExempt[recipient], "TX Limit Exceeded");
} else {
    require(amount <= _maxBuyTxAmount || isTxLimitExempt[sender] ||
isTxLimitExempt[recipient], "TX Limit Exceeded");
}

if(!authorizations[sender] && !authorizations[recipient]){
    require(tradingOpen,"Trading not enabled yet");
}</pre>
```



Recommendation

The contract could embody a check for not allowing setting the _maxSellTxAmount, _maxBuyTxAmount and _maxWalletToken less than a reasonable amount. A suggested implementation could check that the maximum amount should be more than a fixed percentage of the total supply. The cooldownTimerInterval should not be able to set more than a reasonable period. The tradingOpen should be allowed to be enabled once.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.



ELFM - Exceeds Fees Limit

Criticality	critical
Location	Trump_Tweets.sol#L904,915
Status	Unresolved

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the setBuyFees or setSellFees function with a high percentage value.

```
// Set our sell fees
function setSellFees(uint256 _liquidityFeeSell, uint256 _buybackFeeSell, uint256
_reflectionFeeSell, uint256 _marketingFeeSell, uint256 _devFeeSell, uint256
_feeDenominator) external authorized {
    liquidityFeeSell = _liquidityFeeSell;
    buybackFeeSell = _buybackFeeSell;
    reflectionFeeSell = _reflectionFeeSell;
    marketingFeeSell = _marketingFeeSell;
    devFeeSell = _devFeeSell;
    totalFeeSell =
_liquidityFeeSell.add(_buybackFeeSell).add(_reflectionFeeSell).add(_marketingFeeSell).add(_devFeeSell);
    feeDenominator = _feeDenominator;
}
```

Recommendation

The contract could embody a check for the maximum acceptable value.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.



BC - Blacklists Addresses

Criticality	medium
Location	Trump_Tweets.sol#L553
Status	Unresolved

Description

The contract owner has the authority to stop addresses from transactions. The owner may take advantage of it by calling the blacklistAddress function.

```
require(!isBlacklisted[recipient] && !isBlacklisted[sender], 'Address is
blacklisted');
```

Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.



Contract Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	PTRP	Potential Transfer Revert Propagation	Unresolved
•	RSML	Redundant SafeMath Library	Unresolved
•	ZD	Zero Division	Unresolved
•	L02	State Variables could be Declared Constant	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L05	Unused State Variable	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L09	Dead Code Elimination	Unresolved



PTRP - Potential Transfer Revert Propagation

Criticality	minor / informative
Location	Trump_Tweets.sol#L769
Status	Unresolved

Description

The contract sends funds to a marketingFeeReceiver as part of the transfer flow. This address can either be a wallet address or a contract. If the address is a contract then it may revert from incoming payment. As a result, the error will propagate to the token's contract and revert the transfer.

```
(bool successMarketing, /* bytes memory data */) =
payable(marketingFeeReceiver).call{value: amountBNBMarketing, gas: 30000}("");
(bool successDev, /* bytes memory data */) = payable(DEV).call{value:
amountBNBDev, gas: 30000}("");
require(successMarketing, "marketing receiver rejected ETH transfer");
```

Recommendation

The contract should tolerate the potential revert from the underlying contracts when the interaction is part of the main transfer flow. This could be archived by not allowing set contract addresses or by sending the funds in a non-revertable way.



RSML - Redundant SafeMath Library

Criticality	minor / informative
Location	Trump_Tweets.sol#L367
Status	Unresolved

Description

The Solidity versions that are greater than or equal to 0.8.0 do not need the use of SafeMath Library. The usage of the SafeMath library produces unnecessary additional gas.

using SafeMath for uint256;

Recommendation

The team is advised to remove the SafeMath library as it is safe to do math operations without it.



ZD - Zero Division

Criticality	critical
Location	Trump_Tweets.sol
Status	Unresolved

Description

The contract is using variables that may be set to zero as denominators. As a result, the transactions will revert.

```
if(launchedAt + deadBlocks >= block.number){ return feeDenominator.sub(1); }
...
if (GREEDMode){
   if(isSell){
        // We are selling so up the selling tax to 1.5x
        feeAmount = amount.mul(totalFee).mul(3).div(2).div(feeDenominator);
   } else {
        // We are buying so cut our taxes in half
        feeAmount = amount.mul(totalFee).div(2).div(feeDenominator);
   }
} else {
   feeAmount = amount.mul(totalFee).div(feeDenominator);
}
```

Recommendation

The contract should prevent those variables to be set to zero or should not allow to execute the corresponding statements.



L02 - State Variables could be Declared Constant

Criticality minor / informative	
Location	Trump_Tweets.sol#L374,372,432,386,373,370,371,224,211
Status	Unresolved

Description

Constant state variables should be declared constant to save gas.

```
DEV
DEAD
deadBlocks
_totalSupply
ZERO
BUSD
WBNB
dividendsPerShareAccuracyFactor
```

Recommendation

Add the constant attribute to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	Trump_Tweets.sol#L737,720,372,143,950,394,932,904,382,926,383,915,428,395, 366,210,839,938,390,374,249,391,389,381,683,714,429,370,386,201,211,373,371,731
Status	Unresolved

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
_address
_seconds
DEAD
WETH
_minDistribution
_minPeriod
_balances
_amount
_feeDenominator
...
```

Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-conventions.



L05 - Unused State Variable

Criticality	minor / informative
Location	Trump_Tweets.sol#L370
Status	Unresolved

Description

There are segments that contain unused state variables.

BUSD

Recommendation

Remove unused state variables.



L07 - Missing Events Arithmetic

Criticality	minor / informative
Location	Trump_Tweets.sol#L850,249,720,868,904,839,932,938,538,915,873,731
Status	Unresolved

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
buybackMultiplierNumerator = numerator
minPeriod = _minPeriod

GREEDDuration = _seconds
_maxBuyTxAmount = _totalSupply.mul(maxBuyTxPercent).div(10000)
liquidityFeeBuy = _liquidityFeeBuy
autoBuybackCap = _cap
swapThreshold = _totalSupply * _amount / 10000
targetLiquidity = _target
_maxWalletToken = _totalSupply.mul(maxWallPercent).div(10000)
...
```

Recommendation

Emit an event for critical parameter changes.



L09 - Dead Code Elimination

Criticality	minor / informative
Location	Trump_Tweets.sol#L858,788,813
Status	Unresolved

Description

Functions that are not used in the contract, and make the code's size bigger.

launched shouldAutoBuyback triggerAutoBuyback

Recommendation

Remove unused functions.



Contract Functions

	Function Name			
		Visibility	Mutability	Modifiers
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
IBEP20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Auth	Implementation			
	<constructor></constructor>	Public	✓	-
	authorize	Public	√	onlyOwner
	unauthorize	Public	✓	onlyOwner
	isOwner	Public		-
	isAuthorized	Public		-
	transferOwnership	Public	1	onlyOwner
IDEXFactory	Interface			



	createPair	External	1	-
IDEXRouter	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	1	-
	addLiquidityETH	External	Payable	-
	swapExactTokensForTokensSupportin gFeeOnTransferTokens	External	√	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	✓	-
IDividendDistri butor	Interface			
	setDistributionCriteria	External	✓	-
	setShare	External	✓	-
	deposit	External	Payable	-
	process	External	✓	-
DividendDistri butor	Implementation	IDividendDis tributor		
	<constructor></constructor>	Public	✓	-
	setDistributionCriteria	External	1	onlyToken
	setShare	External	✓	onlyToken
	deposit	External	Payable	onlyToken
	process	External	✓	onlyToken
	shouldDistribute	Internal		
	distributeDividend	Internal	✓	
	claimDividend	External	✓	onlyToken
	getUnpaidEarnings	Public		-
	getCumulativeDividends	Internal		
	addShareholder	Internal	✓	
	removeShareholder	Internal	✓	
Trump_Tweets	Implementation	IBEP20,		



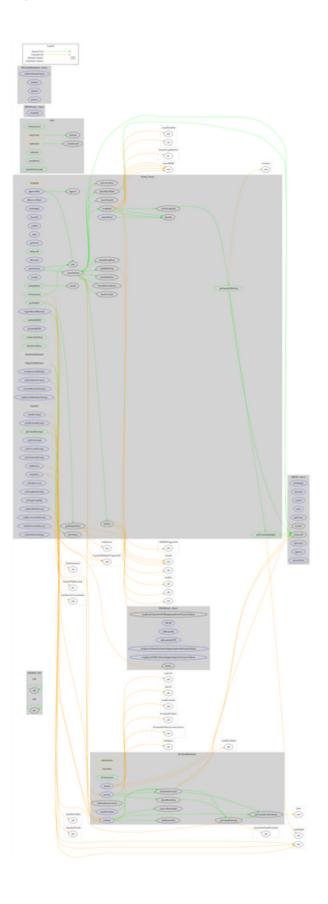
	Auth		
<constructor></constructor>	Public	✓	Auth
<receive ether=""></receive>	External	Payable	-
totalSupply	External		-
decimals	External		-
symbol	External		-
name	External		-
getOwner	External		-
balanceOf	Public		-
allowance	External		-
approve	Public	✓	-
approveMax	External	1	-
transfer	External	✓	-
transferFrom	External	1	-
setMaxWalletPercent	External	✓	onlyOwner
_transferFrom	Internal	1	
_basicTransfer	Internal	✓	
setCorrectFees	Internal	1	
inGREEDTime	Public		-
checkTxLimit	Internal		
checkBuyCooldown	Internal	✓	
checkMaxWallet	Internal		
shouldTakeFee	Internal		
getTotalFee	Public		-
getMultipliedFee	Public		-
takeFee	Internal	1	
shouldSwapBack	Internal		
tradingStatus	Public	✓	onlyOwner
enableGREED	Public	√	authorized
disableGREED	External	√	authorized
cooldownEnabled	Public	√	authorized
blacklistAddress	Public	√	authorized
swapBack	Internal	1	swapping
shouldAutoBuyback	Internal		
triggerManualBuyback	External	1	authorized



clearBuybackMultiplier	External	✓	authorized
triggerAutoBuyback	Internal	✓	
buyTokens	Internal	✓	swapping
setAutoBuybackSettings	External	✓	authorized
setBuybackMultiplierSettings	External	✓	authorized
launched	Internal		
launch	Internal	✓	
setBuyTxLimitInPercent	External	✓	authorized
setSellTxLimitInPercent	External	✓	authorized
setIsDividendExempt	External	√	authorized
setIsFeeExempt	External	✓	authorized
setIsTxLimitExempt	External	✓	authorized
setIsTimelockExempt	External	√	authorized
setBuyFees	External	✓	authorized
setSellFees	External	✓	authorized
setFeeReceivers	External	✓	authorized
setSwapBackSettings	External	✓	authorized
setTargetLiquidity	External	✓	authorized
manualSend	External	√	authorized
setDistributionCriteria	External	✓	authorized
claimDividend	External	√	-
getUnpaidEarnings	Public		-
setDistributorSettings	External	✓	authorized
getCirculatingSupply	Public		-
getLiquidityBacking	Public		-
isOverLiquified	Public		-



Contract Flow





Summary

There are some functions that can be abused by the owner like stopping transactions and blacklisting addresses. The contract can be converted into a honeypot and prevent users from selling if the owner abuses the admin functions. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.



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The Cyberscope team

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