

Audit Report

Pie Share Token

December 2021

Type	BEP20
Address	0xd8c152d3b94084d7c8ec951e81fbbfc4b6de5b2b
Audited by	© coinscope

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Contract Review

Contract Name	PieShare
Compiler Version	v0.6.12+commit.27d51765
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/address/0xd8c152d3b94084d7c8ec951e81fbbfc4b6de5b2b
Symbol	PIE
Decimals	18
Total Supply	100,000,000,000
Website	https://pieshare.io/

Audit Updates

Initial Audit	12/08/2021
Corrected	

Contract Analysis

Pass	Description
✓	Contract Owner is not able to mint new tokens
✓	Contract Owner is not able to burn new tokens
✗	Contract Owner is not able to increase fees more than a reasonable percent
✗	Contract Owner is not able to stop or pause transactions
✓	Contract Owner is not able to transfer tokens from specific address
✓	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
✗	Contract Owner is not able to blacklist wallets from selling

UIF - Unlimited Increase Fees

Criticality	high
Location	https://bscscan.com/address/0xd8c152d3b94084d7c8ec951e81fbbfc4b6de5b2b#code#L1363,L1379

Description

The contract owner has the authority to increase fees without limit. The owner may take advantage of it by calling the `setMarketingFee` function with a high percentage value.

```
 function setMarketingFee(uint256 _marketingFee) external onlyOwner{
        marketingFee = _marketingFee;
        totalFees =
BUSDRewardsFee.add(liquidityFee).add(marketingFee).add(buybackFee);

    }
```

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.

ST - Stop Transactions

Criticality	high
Location	https://bscscan.com/address/0xd8c152d3b94084d7c8ec951e81fbbfc4b6de5b2b#code#L1351

Description

The contract owner has the authority to stop transactions by setting a very small amount `maxWalletToken`. This can functionality can be mainly used for anti-whale mechanism but the threat of also reducing the variable to extremely small percent is present.

```
require(contractBalanceRecepient + amount <= maxWalletToken,
                "Exceeds maximum wallet token amount."
            );
```

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.

BC - Blacklisted Contracts

Criticality	high
Location	https://bscscan.com/address/0xd8c152d3b94084d7c8ec951e81fbbfc4b6de5b2b#code#L1392

Description

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

```
function blacklistAddress(address account, bool value) external onlyOwner{
        _isBlacklisted[account] = value;
    }
```

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

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadata	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			

	_msgSender	Internal		
	_msgData	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
ERC20	Implementation	Context, IERC20, IERC20Metadata		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-

	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
SafeMathUint	Library			
	toInt256Safe	Internal		
SafeMathInt	Library			
	mul	Internal		

	div	Internal		
	sub	Internal		
	add	Internal		
	abs	Internal		
	toUint256Safe	Internal		
DividendPayingTokenInterface	Interface			
	dividendOf	External		-
	withdrawDividend	External	✓	-
DividendPayingTokenOptionalInterface	Interface			
	withdrawableDividendOf	External		-
	withdrawnDividendOf	External		-
	accumulativeDividendOf	External		-
Ownable	Implementation	Context		
		Public	✓	-

	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
DividendPayingToken	Implementation	ERC20, Ownable, DividendPayingTokenInterface, DividendPayingTokenOptionalInterface		
		Public	✓	ERC20
	distributeBUSDDividends	Public	✓	onlyOwner
	withdrawDividend	Public	✓	-
	_withdrawDividendOfUser	Internal	✓	
	dividendOf	Public		-
	withdrawableDividendOf	Public		-
	withdrawnDividendOf	Public		-
	accumulativeDividendOf	Public		-
	_transfer	Internal	✓	

	_mint	Internal	✓	
	_burn	Internal	✓	
	_setBalance	Internal	✓	
IterableMapping	Library			
	get	Public		-
	getIndexOfKey	Public		-
	getKeyAtIndex	Public		-
	size	Public		-
	set	Public	✓	-
	remove	Public	✓	-
IUniswapV2Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-

	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-

	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Router01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-

	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Router02	Interface	IUniswapV2Router01		

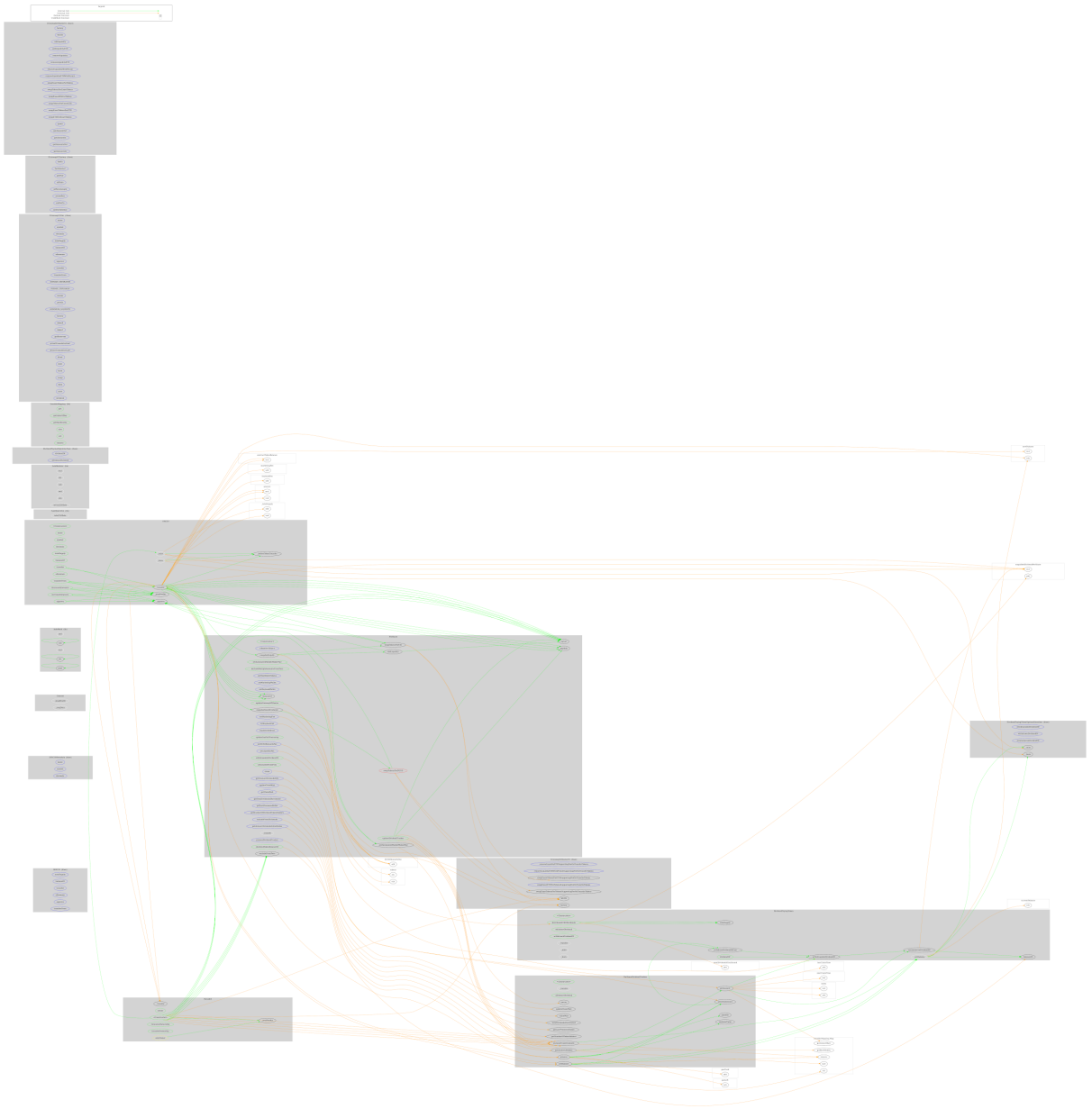
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
PieShare	Implementation	ERC20, Ownable		
		Public	✓	ERC20
		External	Payable	-
	updateDividendTracker	Public	✓	onlyOwner
	updateUniswapV2Router	Public	✓	onlyOwner
	excludeFromFees	Public	✓	onlyOwner
	excludeMultipleAccountsFromFees	Public	✓	onlyOwner
	setMaxWalletTokens	External	✓	onlyOwner

	setMarketingWallet	External	✓	onlyOwner
	setBuybackWallet	External	✓	onlyOwner
	setBUSDRewardsFee	External	✓	onlyOwner
	setLiquidityFee	External	✓	onlyOwner
	setMarketingFee	External	✓	onlyOwner
	setBuybackFee	External	✓	onlyOwner
	setAutomatedMarketMakerPair	Public	✓	onlyOwner
	blacklistAddress	External	✓	onlyOwner
	_setAutomatedMarketMakerPair	Private	✓	
	updateGasForProcessing	Public	✓	onlyOwner
	updateClaimWait	External	✓	onlyOwner
	getClaimWait	External		-
	getTotalDividendsDistributed	External		-
	isExcludedFromFees	Public		-
	withdrawableDividendOf	Public		-

	dividendTokenBalanceOf	Public		-
	excludeFromDividends	External	✓	onlyOwner
	getAccountDividendsInfo	External		-
	getAccountDividendsInfoAtIndex	External		-
	processDividendTracker	External	✓	-
	claim	External	✓	-
	getLastProcessedIndex	External		-
	getNumberOfDividendTokenHolders	External		-
	_transfer	Internal	✓	
	swapAndLiquify	Private	✓	
	swapTokensForEth	Private	✓	
	swapTokensForBUSD	Private	✓	
	addLiquidity	Private	✓	
	swapAndSendDividends	Private	✓	
PieShareDividendTracker	Implementation	Ownable, DividendPayingToken		
		Public	✓	DividendPayingToken

	_transfer	Internal	✓	
	withdrawDividend	Public	✓	-
	excludeFromDividends	External	✓	onlyOwner
	updateClaimWait	External	✓	onlyOwner
	getLastProcessedIndex	External		-
	getNumberOfTokenHolders	External		-
	getAccount	Public		-
	getAccountAtIndex	Public		-
	canAutoClaim	Private		
	setBalance	External	✓	onlyOwner
	process	Public	✓	-
	processAccount	Public	✓	onlyOwner

Contract Flow



Domain Info

Domain Name	pieshare.io
Registry Domain ID	97b7bc0739ea485e899ef076bac68513-DONUTS
Registrar WHOIS Server	whois.advancedregistrar.com
Registrar URL	http://www.netearthone.com
Updated Date	2021-11-30T00:27:23Z
Creation Date	2021-11-25T00:26:55Z
Registry Expiry Date	2022-11-25T00:26:55Z
Registrar	NetEarth One Inc. dba NetEarth
Registrar IANA ID	1005

The domain has been created 30 days before the analysis of the audit. It is set for expire in one year.

There is no public billing information, the creator is protected by the privacy settings.

Summary

Pie Share Token is an interesting project with a friendly and growing community. Pie Share's main utility will be an advertising platform. They mention NFT rewards to holders as passive income on their website. The contract analysis reported 3 critical issues. There are some functions that can be abused by the owner, like manipulating fees without limitations, blacklisting addresses and reducing the max amount of tokens a wallet can have without restrictions. A multi-wallet signing pattern or renouncing the ownership will eliminate all the contract threats. Finally, KYC or doxxing the team is advised in order to gain confidence and trust from the community.

Disclaimer

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About Coinscope

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

https://www.coinscope.co