



Audit Report

Potcake

January 2022

Type BEP20

Network BSC

Address 0x0eD82F34ff41714E7B3938FF58515545c3EecF9A

Audited by © coinscope

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Contract Review

| | |
|-------------------------|---|
| Contract Name | PCPACK |
| Compiler Version | v0.8.11+commit.d7f03943 |
| Optimization | 200 runs |
| Licence | MIT |
| Explorer | https://bscscan.com/token/0x0eD82F34ff41714E7B3938FF58515545c3EecF9A |
| Symbol | PCPACK |
| Decimals | 18 |
| Total Supply | 1,000,000,000,000,000 |
| Source | contract.sol |
| Domain | potcakepack.io |

Audit Updates

| | |
|----------------------|-------------------|
| Initial Audit | 31st January 2022 |
| Corrected | |

Contract Analysis

● Critical
 ● Medium
 ● Minor
 ● Pass

| Severity | Code | Description |
|-------------------------------------|------|---|
| ● | ST | Contract Owner is not able to stop or pause transactions |
| ● | OCTD | Contract Owner is not able to transfer tokens from specific address |
| ● | OTUT | Owner Transfer User's Tokens |
| ● | ELFM | Contract Owner is not able to increase fees more than a reasonable percent (25%) |
| ● | ULTW | Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent |
| ● | MT | Contract Owner is not able to mint new tokens |
| ● | BT | Contract Owner is not able to burn tokens from specific wallet |
| ● | BC | Contract Owner is not able to blacklist wallets from selling |

ST - Stop Transactions

| | |
|-------------|------------------------------|
| Criticality | critical |
| Location | contract.sol#L2088,2109,1744 |

Description

The contract owner has the authority to stop the sales for all users excluding the owner. The owner may take advantage of it by setting the `maxSellTransactionAmount` to zero or the `onSelltotalFees` to a high value.

```
if(automatedMarketMakerPairs[to] && (!_isExcludedFromMaxTx[from]) &&
(!_isExcludedFromMaxTx[to])){
    require(amount <= maxSellTransactionAmount, "Sell transfer amount exceeds
the maxSellTransactionAmount.");
}
```

```
if(automatedMarketMakerPairs[to]) {
    fees =(amount*onSelltotalFees)/100;
}
```

Recommendation

The contract could embody a check for not allowing setting the `maxSellTransactionAmount` 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 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.

OCTD - Owner Contract Tokens Drain

| | |
|--------------------|--------------------|
| Criticality | minor |
| Location | contract.sol#L1735 |

Description

The contract owner has the authority to claim all the tokens of the contract. These tokens have been accumulated from the fees tax. The owner may take advantage of it by calling the `withdraw` function.

```
function withdraw(address _token, uint256 _amount) external {  
    require(msg.sender == safeManager);  
    IERC20(_token).transfer(safeManager, _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.

ELFM - Exceed Limit Fees Manipulation

| | |
|--------------------|-----------------|
| Criticality | critical |
| Location | contract.sol#L1 |

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 `setSellFee` function with a high percentage value.

```
function setSellFee(uint256 _onSellbnbRewardFee, uint256 _onSellliquidityFee,
uint256 _onSellMarketingFee, uint256 _onSellBuybackFee) public onlyOwner {
    onSelltotalFees = _onSellbnbRewardFee;
    onSellliquidityFee = _onSellliquidityFee;
    onSellmarketingFee = _onSellMarketingFee;
    onSellbuybackFee = _onSellBuybackFee;

    onSelltotalFees =
onSellBNBRewardsFee.add(onSellliquidityFee).add(onSellmarketingFee).add(onSellbu
ybackFee);
}
```

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.

Contract Diagnostics

● Critical ● Medium ● Minor

| Severity | Code | Description |
|----------|------|--|
| ● | L01 | Public Function could be Declared External |
| ● | L04 | Conformance to Solidity Naming Conventions |
| ● | L09 | Dead Code Elimination |
| ● | L07 | Missing Events Arithmetic |

L01 - Public Function could be Declared External

Criticality

minor

Location

contract.sol#L2070,L2018,L2014 and 34 more

Description

Public functions that are never called by the contract should be declared external to save gas.

```
setSwapAndLiquifyEnabled  
dividendTokenBalanceOf  
withdrawableDividendOf  
...
```

Recommendation

Use the external attribute for functions never called from the contract

L04 - Conformance to Solidity Naming Conventions

Criticality

minor

Location

contract.sol#L1780,L2173,L2070 and 26 more

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.

```
BNBRewardsFee
_to
_enabled
...
```

Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

L09 - Dead Code Elimination

Criticality

minor

Location

contract.sol#L173,L187,L249 and 24 more

Description

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

```
mul
div
trySub
...
```

Recommendation

Remove unused functions.

L07 - Missing Events Arithmetic

Criticality

minor

Location

contract.sol#L1972,L1861,L1852 and 1 more

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.

```
swapTokensAtAmount = _newAmount  
maxSellTransactionAmount = _maxSellTxAmount  
onSelltotalFees = _onSellbnbRewardFee  
...
```

Recommendation

Emit an event for critical parameter changes.

Contract Functions

| Contract | Type | Bases | | |
|---------------------------|---|--------------------|------------|-----------|
| | Function Name | Visibility | Mutability | Modifiers |
| | | | | |
| 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 | ✓ | - |
| | | | | |
| IUniswapV2Factory | Interface | | | |
| | feeTo | External | | - |
| | feeToSetter | External | | - |
| | getPair | External | | - |
| | allPairs | External | | - |
| | allPairsLength | External | | - |
| | createPair | External | ✓ | - |
| | setFeeTo | External | ✓ | - |
| | setFeeToSetter | External | ✓ | - |
| | | | | |
| SignedSafeMath | Library | | | |
| | mul | Internal | | |
| | div | Internal | | |
| | sub | Internal | | |
| | add | Internal | | |
| | | | | |
| SafeMath | Library | | | |
| | tryAdd | Internal | | |
| | trySub | Internal | | |
| | tryMul | Internal | | |
| | tryDiv | Internal | | |
| | tryMod | Internal | | |
| | add | Internal | | |
| | sub | Internal | | |
| | mul | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |
| | sub | Internal | | |
| | div | Internal | | |
| | mod | Internal | | |

| | | | | |
|-----------------------|----------------|----------|---|---|
| | | | | |
| SafeCast | Library | | | |
| | toUint224 | Internal | | |
| | toUint128 | Internal | | |
| | toUint96 | Internal | | |
| | toUint64 | Internal | | |
| | toUint32 | Internal | | |
| | toUint16 | Internal | | |
| | toUint8 | Internal | | |
| | toUint256 | Internal | | |
| | toInt128 | Internal | | |
| | toInt64 | Internal | | |
| | toInt32 | Internal | | |
| | toInt16 | Internal | | |
| | toInt8 | Internal | | |
| | toInt256 | Internal | | |
| | | | | |
| Context | Implementation | | | |
| | _msgSender | Internal | | |
| | _msgData | Internal | | |
| | | | | |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| IERC20Metadata | Interface | IERC20 | | |
| | name | External | | - |
| | symbol | External | | - |
| | decimals | External | | - |
| | | | | |

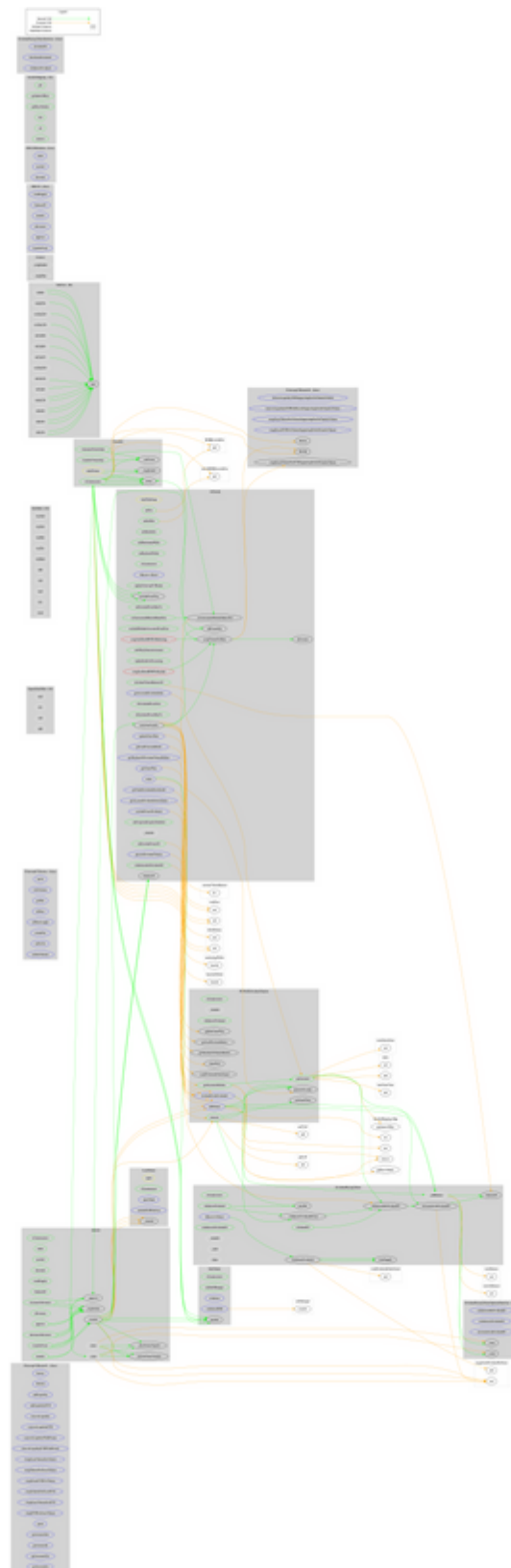
| ERC20 | Implementation | Context, IERC20, IERC20Met adata | | |
|-----------------|----------------------|---|---|-----------|
| | <Constructor> | Public | ✓ | - |
| | name | Public | | - |
| | symbol | Public | | - |
| | decimals | Public | | - |
| | totalSupply | Public | | - |
| | balanceOf | Public | | - |
| | transfer | Public | ✓ | - |
| | allowance | Public | | - |
| | approve | Public | ✓ | - |
| | transferFrom | Public | ✓ | - |
| | increaseAllowance | Public | ✓ | - |
| | decreaseAllowance | Public | ✓ | - |
| | _transfer | Internal | ✓ | |
| | _mint | Internal | ✓ | |
| | _burn | Internal | ✓ | |
| | _approve | Internal | ✓ | |
| | _beforeTokenTransfer | Internal | ✓ | |
| | _afterTokenTransfer | Internal | ✓ | |
| | | | | |
| Ownable | Implementation | Context | | |
| | <Constructor> | Public | ✓ | - |
| | owner | Public | | - |
| | renounceOwnership | Public | ✓ | onlyOwner |
| | transferOwnership | Public | ✓ | onlyOwner |
| | _setOwner | Private | ✓ | |
| | | | | |
| IterableMapping | Library | | | |
| | get | Public | | - |
| | getIndexOfKey | Public | | - |
| | getKeyAtIndex | Public | | - |
| | size | Public | | - |
| | set | Public | ✓ | - |

| | | | | |
|---|-------------------------|---|---------|-------|
| | remove | Public | ✓ | - |
| | | | | |
| DividendPayingTokenOptionalInterface | Interface | | | |
| | withdrawableDividendOf | External | | - |
| | withdrawnDividendOf | External | | - |
| | accumulativeDividendOf | External | | - |
| | | | | |
| DividendPayingTokenInterface | Interface | | | |
| | dividendOf | External | | - |
| | distributeDividends | External | Payable | - |
| | withdrawDividend | External | ✓ | - |
| | | | | |
| DividendPayingToken | Implementation | ERC20, DividendPayingTokenInterface, DividendPayingTokenOptionalInterface | | |
| | <Constructor> | Public | ✓ | ERC20 |
| | <Receive Ether> | External | Payable | - |
| | distributeDividends | Public | Payable | - |
| | withdrawDividend | Public | ✓ | - |
| | _withdrawDividendOfUser | Internal | ✓ | |
| | dividendOf | Public | | - |
| | withdrawableDividendOf | Public | | - |
| | withdrawnDividendOf | Public | | - |
| | accumulativeDividendOf | Public | | - |
| | _transfer | Internal | ✓ | |
| | _mint | Internal | ✓ | |
| | _burn | Internal | ✓ | |
| | _setBalance | Internal | ✓ | |
| | | | | |

| | | | | |
|------------------------------|-------------------------|--------------------------------------|---|---------------------|
| PCPACKDividendTracker | Implementation | DividendPayingToken, Ownable | | |
| | <Constructor> | 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 |
| | | | | |
| SafeToken | Implementation | Ownable | | |
| | <Constructor> | Public | ✓ | - |
| | setSafeManager | Public | ✓ | onlyOwner |
| | withdraw | External | ✓ | - |
| | withdrawBNB | External | ✓ | - |
| | | | | |
| LockToken | Implementation | Ownable | | |
| | <Constructor> | Public | ✓ | - |
| | openTrade | External | ✓ | onlyOwner |
| | includeToWhiteList | External | ✓ | onlyOwner |
| | | | | |
| PCPACK | Implementation | ERC20, Ownable, SafeToken, LockToken | | |
| | setFee | Public | ✓ | onlyOwner |
| | setSellFee | Public | ✓ | onlyOwner |
| | setMaxSelltx | Public | ✓ | onlyOwner |
| | setMarketingWallet | Public | ✓ | onlyOwner |

| | | | | |
|--|---------------------------------|----------|---------|-------------|
| | setBuybackWallet | Public | ✓ | onlyOwner |
| | <Constructor> | Public | ✓ | ERC20 |
| | <Receive Ether> | External | Payable | - |
| | updateUniswapV2Router | Public | ✓ | onlyOwner |
| | excludeFromFees | Public | ✓ | onlyOwner |
| | setExcludeFromMaxTx | Public | ✓ | onlyOwner |
| | setExcludeFromAll | Public | ✓ | onlyOwner |
| | excludeMultipleAccountsFromFees | Public | ✓ | onlyOwner |
| | setAutomatedMarketMakerPair | Public | ✓ | onlyOwner |
| | setSwapToensAtAmount | Public | ✓ | onlyOwner |
| | _setAutomatedMarketMakerPair | Private | ✓ | |
| | updateGasForProcessing | Public | ✓ | onlyOwner |
| | updateClaimWait | External | ✓ | onlyOwner |
| | getClaimWait | External | | - |
| | getTotalDividendsDistributed | External | | - |
| | isExcludedFromFees | Public | | - |
| | isExcludedFromMaxTx | Public | | - |
| | withdrawableDividendOf | Public | | - |
| | dividendTokenBalanceOf | Public | | - |
| | getAccountDividendsInfo | External | | - |
| | getAccountDividendsInfoAtIndex | External | | - |
| | processDividendTracker | External | ✓ | - |
| | claim | External | ✓ | - |
| | getLastProcessedIndex | External | | - |
| | getNumberOfDividendTokenHolders | External | | - |
| | excludeFromDividends | External | ✓ | onlyOwner |
| | setSwapAndLiquifyEnabled | Public | ✓ | onlyOwner |
| | _transfer | Internal | ✓ | open |
| | swapAndLiquify | Private | ✓ | lockTheSwap |
| | swapTokensForBnb | Private | ✓ | |
| | swapAndSendBNBToMarketing | Private | ✓ | |
| | swapAndSendBNBToBuybak | Private | ✓ | |
| | addLiquidity | Private | ✓ | |

Contract Flow



Domain Info

| | |
|-------------------------------|---|
| Domain Name | potcakepack.io |
| Registry Domain ID | b1f35fb6de8b4b348b3701b031149df3-DONUTS |
| Creation Date | 2022-01-04T05:18:16Z |
| Updated Date | 2022-01-09T05:18:24Z |
| Registry Expiry Date | 2023-01-04T05:18:16Z |
| Registrar WHOIS Server | whois.godaddy.com/ |
| Registrar URL | http://www.godaddy.com/domains/search.aspx?ci=8990 |
| Registrar | GoDaddy.com, LLC |
| Registrar IANA ID | 146 |

The domain has been created 27 days before the creation of the audit. It will expire in 11 months.

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

Summary

Potcake is a meme token. The Project has a friendly and growing community. There are some functions that can be abused by the owner, like manipulating fees, transferring funds to the team's wallet and stopping transactions. The contract could operate as a honeypot if the configuration is abused by the contract owner. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Coinscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Coinscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Coinscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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The Coinscope team disclaims any liability for the resulting losses.

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>