Cyberscope

Audit Report

OptiFi

March 2022

Type	BEP20
Network	BSC
Address	0xb5D5D9C8E98cef68E7bdAd92b1De229d514179b6
Audited by	© cyberscope

Table of Contents

Contract Review

Contract Name	OptiFi
Compiler Version	v0.7.4+commit.3f05b770
Optimization	200 runs
Licence	Unlicense
Explorer	https://bscscan.com/token/0xb5D5D9C8E98cef68E7bdAd92b1De229d514179b6
Symbol	$OPTI
Decimals	5
Total Supply	325,000
Source	contract.sol
Domain	

Audit Updates

Initial Audit	15th March 2022
Corrected	17th March 2022

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	minor
Location	contract.sol#L738

Description

The contract owner has the authority to stop transactions for all users excluding the owner. The owner may take advantage of it by setting the `tradingOpen` to false.

```
if (!authorizations[sender] && !authorizations[recipient]) {
  require(tradingOpen, "Trading is not enabled");
```

Recommendation

The contract could not allow disabling the tradingOpen variable after the initial toggle.

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.

ULTW - Unlimited Liquidity to Team Wallet

Criticality	minor
Location	contract.sol#L904

Description

The contract owner has the authority to transfer funds to the team wallet. These funds have been accumulated from fees collected from the contract. The owner may take advantage of it by calling the `withdrawAllToTreasury` function.

```
function withdrawAllToTreasury() external swapping onlyOwner {
  uint256 amountToSwap = _gonBalances[address(this)].div(_gonsPerFragment);
  require(
    amountToSwap > 0,
    "There are no OptiFi tokens deposited in token contract"
  );
  address[] memory path = new address[](2);
  path[0] = address(this);
  path[1] = router.WETH();
  router.swapExactTokensForETHSupportingFeeOnTransferTokens(
    amountToSwap,
    0,
    path,
    treasuryReceiver,
    block.timestamp
  );
}
```

Recommendation

The contract could embody a check for the maximum amount of funds that can be swapped. Since a huge amount may violate the token's price.

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	medium
Location	contract.sol#L740

Description

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

```
require(
  !blacklist[sender] && !blacklist[recipient],
  "Wallet 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

Critical Medium Minor

Severity	Code	Description
	MTS	Manipulate Total Supply
	L01	Public Function could be Declared External
	L02	State Variables could be Declared Constant
	L04	Conformance to Solidity Naming Conventions
	L05	Unused State Variable
	L07	Missing Events Arithmetic
	L09	Dead Code Elimination
	L13	Divide before Multiply Operation
	L14	Uninitialized Variables in Local Scope

MTS - Manipulate Total Supply

Criticality	minor
Location	contract.sol#L662

Description

The contract is manipulating the total supply. This change will have a direct impact on the token price and Market Cap

```
for (uint256 i = 0; i < times; i++) {
  _totalSupply = _totalSupply.mul((10**RATE_DECIMALS).add(rebaseRate)).div(
    10**RATE_DECIMALS
  );
}
```

Recommendation

The contract owner should carefully manage the adjustment of the circulating supply (increases or decreases), according to the token’s price fluctuations.

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L495,499,512,517,543,547,551,1078,1109,1133

Description

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

```
tradingStatus
setPairAddress
getLiquidityBacking
decimals
symbol
name
transferOwnership
renounceOwnership
unauthorize
...
```

Recommendation

Use the external attribute for functions never called from the contract

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L597,598,564,562,563,583,588,584,581,585 and 2 more

Description

Constant state variables should be declared constant to save gas.

```
treasuryFee
swapEnabled
sellFee
liquidityFee
insuranceFundFee
feeDenominator
ecoFee
_symbol
_name
...
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L157,159,190,234,951,960,1013,1028,1055,1056 and 25 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.

```
_maxTxAmount
_totalSupply
_lastAddLiquidityTime
_lastRebasedTime
_initRebaseStartTime
_autoAddLiquidity
_autoRebase
ZERO
DEAD
...
```

Recommendation

Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions

L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L14

Description

There are segments that contain unused state variables.

```
MAX_INT256
```

Recommendation

Remove unused state variables.

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L1028,1066,1074,1133

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.

```
deadBlocks = _deadBlocks
goldenMinutesDuration = _durationInSec
buyFeeMultiplier = _buyMultiplier
_maxTxAmount = TOTAL_GONS.div(1000).mul(maxTXPercentage_base1000)
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L42

Description

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

```
abs
```

Recommendation

Remove unused functions.

L13 - Divide before Multiply Operation

Criticality	minor
Location	contract.sol#L667,782,1028,1078,556

Description

Performing divisions before multiplications may cause lose of prediction.

```
_maxTxAmount = TOTAL_GONS.div(100).mul(1)
liquidityBalance = _gonBalances[pair].div(_gonsPerFragment)
_maxTxAmount = TOTAL_GONS.div(1000).mul(maxTXPercentage_base1000)
feeAmount = gonAmount.div(feeDenominator).mul(_totalFee)
times = deltaTime.div(1800)
```

Recommendation

The multiplications should be prior to the divisions.

L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L1096,670

Description

The are variables that are defined in the local scope and are not initialized.

```
rebaseRate
i
```

Recommendation

All the local scoped variables should be initialized.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMathInt	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		
	abs	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	transfer	External	✓	-
	approve	External	✓	-
	transferFrom	External	✓	-
IPancakeSwap Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-

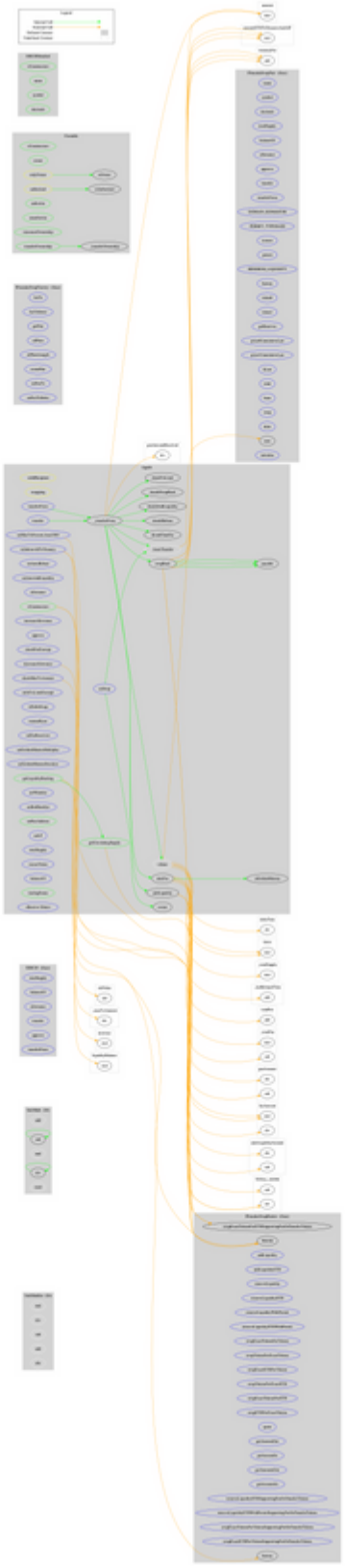
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IPancakeSwap Router	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		-
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
IPancakeSwapFactory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
Ownable	Implementation			
	<Constructor>	Public	✓	-
	owner	Public		-
	authorize	Public	✓	onlyOwner
	unauthorize	Public	✓	onlyOwner

	isOwner	Public		-
	isAuthorized	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
ERC20Detailed	Implementation	IERC20		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
OptiFi	Implementation	ERC20Detailed, Ownable		
	<Constructor>	Public	✓	ERC20Detailed Ownable
	rebase	Internal	✓	
	transfer	External	✓	validRecipient
	transferFrom	External	✓	validRecipient
	_basicTransfer	Internal	✓	
	_transferFrom	Internal	✓	
	isGoldenMinutes	Internal		
	takeFee	Internal	✓	
	addLiquidity	Internal	✓	swapping
	swapBack	Internal	✓	swapping
	withdrawAllToTreasury	External	✓	swapping onlyOwner
	shouldTakeFee	Internal		
	shouldRebase	Internal		
	shouldAddLiquidity	Internal		
	shouldSwapBack	Internal		
	setAutoRebase	External	✓	onlyOwner
	setAutoAddLiquidity	External	✓	onlyOwner
	allowance	External		-
	decreaseAllowance	External	✓	-
	increaseAllowance	External	✓	-

	approve	External	✓	-
	checkFeeExempt	External		-
	checkTxLimit	Internal		
	checkMaxTxAmount	External		-
	setMaxTxPercent_base1000	External	✓	onlyOwner
	setIsTxLimitExempt	External	✓	onlyOwner
	getCirculatingSupply	Public		-
	isNotInSwap	External		-
	manualSync	External	✓	-
	setFeeReceivers	External	✓	onlyOwner
	setGoldenMinutesMultiplier	External	✓	onlyOwner
	setGoldenMinutesDuration	External	✓	onlyOwner
	getLiquidityBacking	Public		-
	airDrop	External	✓	onlyOwner
	setWhitelist	External	✓	onlyOwner
	setBotBlacklist	External	✓	onlyOwner
	setPairAddress	Public	✓	onlyOwner
	setLP	External	✓	onlyOwner
	totalSupply	External		-
	rescueToken	External	✓	onlyOwner
	balanceOf	External		-
	tradingStatus	Public	✓	onlyOwner
	<Receive Ether>	External	Payable	-

Contract Flow



Domain Info

Domain Name	optifi.finance
Registry Domain ID	f7dd274e057c45c6ad8049b84899ab44-DONUTS
Creation Date	2022-03-10T19:39:25Z
Updated Date	2022-03-11T02:35:48Z
Registry Expiry Date	2023-03-10T19:39:25Z
Registrar WHOIS Server	http://www.hostinger.com
Registrar URL	http://www.hostinger.com
Registrar	Hostinger, UAB
Registrar IANA ID	1636

The domain has been created 5 days before the creation of the audit. It will expire in 12 months.

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

Summary

There are some functions that can be abused by the owner, like blacklisting contracts, transferring funds to the team’s wallet and stopping transactions. The maximum fee percentage that can be set is 14% in buys and 18% in sales. The contract is also using a rebase technique that manipulates the total supply. 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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Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

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.

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

The Cyberscope team

https://www.cyberscope.io

Cyberscope

Audit Report

OptiFi

March 2022

Type	BEP20
Network	TESTNET.BSC
Address	0xe7d808b92333544e55188c3C78fd97770386A520
Audited by	© cyberscope

Table of Contents

Contract Review

Contract Name	OptiFi
Compiler Version	v0.7.4+commit.3f05b770
Optimization	200 runs
Licence	Unlicense
Explorer	https://testnet.bscscan.com/token/0xe7d808b92333544e55188c3C78fd97770386A520
Symbol	OPTI
Decimals	5
Total Supply	325,000
Source	contract.sol
Domain	optifi.finance

Audit Updates

Initial Audit	15th March 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

ULTW - Unlimited Liquidity to Team Wallet

Criticality	minor
Location	contract.sol#L874

Description

The contract owner has the authority to transfer funds to the team wallet. These funds have been accumulated from fees collected from the contract. The owner may take advantage of it by calling the `withdrawAllToTreasury` function.

```
function withdrawAllToTreasury() external swapping onlyOwner {
  uint256 amountToSwap = _gonBalances[address(this)].div(_gonsPerFragment);
  require(
    amountToSwap > 0,
    "There is no OptiFi token deposited in token contract"
  );
  address[] memory path = new address[](2);
  path[0] = address(this);
  path[1] = router.WETH();
  router.swapExactTokensForETHSupportingFeeOnTransferTokens(
    amountToSwap,
    0,
    path,
    treasuryReceiver,
    block.timestamp
  );
}
```

Recommendation

The contract could embody a check for the maximum amount of funds that can be swapped. Since a huge amount may violate the token's price.

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	medium
Location	contract.sol#L716

Description

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

```
require(!blacklist[sender] && !blacklist[recipient], "in_blacklist");
```

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

Critical Medium Minor

Severity	Code	Description
	MAL	Misused Algorithmic Logic
	MTS	Manipulate Total Supply
	L01	Public Function could be Declared External
	L02	State Variables could be Declared Constant
	L05	Unused State Variable
	L04	Conformance to Solidity Naming Conventions
	L09	Dead Code Elimination
	L07	Missing Events Arithmetic
	L14	Uninitialized Variables in Local Scope
	L13	Divide before Multiply Operation

MAL - Misused Algorithmic Logic

Criticality	minor
Location	contract.sol#L652

Description

The algorithmic flow does not follow the required business logic.

In the following statement the third and the forth **if** will never be fulfilled since an unsigned integer is either less than or greater/equal to 365 days. Hence, always the first two **if** statements will be fulfilled.

```
if (deltaTimeFromInit < (365 days)) {
  rebaseRate = 4863;
} else if (deltaTimeFromInit >= (365 days)) {
  rebaseRate = 245;
} else if (deltaTimeFromInit >= ((15 * 365 days) / 10)) {
  rebaseRate = 16;
} else if (deltaTimeFromInit >= (7 * 365 days)) {
  rebaseRate = 3;
}
```

Recommendation

The algorithm should be reshaped so it will match to the business logic.

MTS - Manipulate Total Supply

Criticality	minor
Location	contract.sol#L662

Description

The contract is manipulating the total supply. This change will have a direct impact on the token price and Market Cap

```
for (uint256 i = 0; i < times; i++) {
  _totalSupply = _totalSupply.mul((10**RATE_DECIMALS).add(rebaseRate)).div(
    10**RATE_DECIMALS
  );
}
```

Recommendation

The contract owner should carefully manage the adjustment of the circulating supply (increases or decreases), according to the token's price fluctuations.

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L492,497,523,527,531,1048,1079

Description

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

```
setPairAddress
getLiquidityBacking
decimals
symbol
name
transferOwnership
renounceOwnership
```

Recommendation

Use the external attribute for functions never called from the contract

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L573,574,544,542,543,563,568,564,561,565 and 2 more

Description

Constant state variables should be declared constant to save gas.

```
treasuryFee
swapEnabled
sellFee
liquidityFee
insuranceFundFee
feeDenominator
ecoFee
_symbol
_name
...
```

Recommendation

Add the constant attribute to state variables that never change.

L05 - Unused State Variable

Criticality	minor
Location	contract.sol#L14

Description

There are segments that contain unused state variables.

```
MAX_INT256
```

Recommendation

Remove unused state variables.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L157,159,190,234,921,930,983,998,1025,1026 and 23 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.

```
_maxTxAmount
_totalSupply
_lastAddLiquidityTime
_lastRebasedTime
_initRebaseStartTime
_autoAddLiquidity
_autoRebase
ZERO
DEAD
...
```

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#L42

Description

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

```
abs
```

Recommendation

Remove unused functions.

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L998,1036,1044

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.

```
goldenMinutesDuration = _durationInSec
buyFeeMultiplier = _buyMultiplier
_maxTxAmount = TOTAL_GONS.div(1000).mul(maxTXPercentage_base1000)
```

Recommendation

Emit an event for critical parameter changes.

L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L646,1066

Description

The are variables that are defined in the local scope and are not initialized.

```
i
rebaseRate
```

Recommendation

All the local scoped variables should be initialized.

L13 - Divide before Multiply Operation

Criticality	minor
Location	contract.sol#L643,754,998,1048,536

Description

Performing divisions before multiplications may cause lose of prediction.

```
_maxTxAmount = TOTAL_GONS.div(100).mul(1)
liquidityBalance = _gonBalances[pair].div(_gonsPerFragment)
_maxTxAmount = TOTAL_GONS.div(1000).mul(maxTXPercentage_base1000)
_gonBalances[autoLiquidityReceiver] =
_gonBalances[autoLiquidityReceiver].add(gonAmount.div(feeDenominator).mul(liquid
ityFee))
_gonBalances[address(this)] =
_gonBalances[address(this)].add(gonAmount.div(feeDenominator).mul(_treasuryFee.a
dd(insuranceFundFee).add(ecoFee)))
_totalFee = _totalFee.mul(buyFeeMultiplier).div(100)
times = deltaTime.div(1800)
```

Recommendation

The multiplications should be prior to the divisions.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMathInt	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		
	abs	Internal		
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	transfer	External	✓	-
	approve	External	✓	-
	transferFrom	External	✓	-
IPancakeSwap Pair	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	✓	-
IPancakeSwap Router	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		-
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
IPancakeSwapFactory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
Ownable	Implementation			
	<Constructor>	Public	✓	-
	owner	Public		-
	isOwner	Public		-
	renounceOwnership	Public	✓	onlyOwner

	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
ERC20Detailed	Implementation	IERC20		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
OptiFi	Implementation	ERC20Detailed, Ownable		
	<Constructor>	Public	✓	ERC20Detailed Ownable
	rebase	Internal	✓	
	transfer	External	✓	validRecipient
	transferFrom	External	✓	validRecipient
	_basicTransfer	Internal	✓	
	_transferFrom	Internal	✓	
	isGoldenMinutes	Internal		
	takeFee	Internal	✓	
	addLiquidity	Internal	✓	swapping
	swapBack	Internal	✓	swapping
	withdrawAllToTreasury	External	✓	swapping onlyOwner
	shouldTakeFee	Internal		
	shouldRebase	Internal		
	shouldAddLiquidity	Internal		
	shouldSwapBack	Internal		
	setAutoRebase	External	✓	onlyOwner
	setAutoAddLiquidity	External	✓	onlyOwner
	allowance	External		-
	decreaseAllowance	External	✓	-
	increaseAllowance	External	✓	-
	approve	External	✓	-
	checkFeeExempt	External		-
	checkTxLimit	Internal		

	checkMaxTxAmount	External		-
	setMaxTxPercent_base1000	External	✓	onlyOwner
	setIsTxLimitExempt	External	✓	onlyOwner
	getCirculatingSupply	Public		-
	isNotInSwap	External		-
	manualSync	External	✓	-
	setFeeReceivers	External	✓	onlyOwner
	setGoldenMinutesMultiplier	External	✓	onlyOwner
	setGoldenMinutesDuration	External	✓	onlyOwner
	getLiquidityBacking	Public		-
	airDrop	External	✓	onlyOwner
	setWhitelist	External	✓	onlyOwner
	setBotBlacklist	External	✓	onlyOwner
	setPairAddress	Public	✓	onlyOwner
	setLP	External	✓	onlyOwner
	totalSupply	External		-
	rescueToken	External	✓	onlyOwner
	balanceOf	External		-
	<Receive Ether>	External	Payable	-

Contract Flow

Domain Info

Domain Name	optifi.finance
Registry Domain ID	f7dd274e057c45c6ad8049b84899ab44-DONUTS
Creation Date	2022-03-10T19:39:25Z
Updated Date	2022-03-11T02:35:48Z
Registry Expiry Date	2023-03-10T19:39:25Z
Registrar WHOIS Server	http://www.hostinger.com
Registrar URL	http://www.hostinger.com
Registrar	Hostinger, UAB
Registrar IANA ID	1636

The domain has been created 5 days before the creation of the audit. It will expire in 12 months.

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

Summary

There are some functions that can be abused by the owner, like blacklisting contracts and transferring funds to the team’s wallet. The maximum fee percentage that can be set is 14% in buys and 18% in sales. The contract is also using a rebase technique that manipulates the total supply. 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.

Cyberscope 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 Cyberscope 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 Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token.

The Cyberscope team disclaims any liability for the resulting losses.

About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

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.

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

The Cyberscope team

https://www.cyberscope.io