

# Audit Report Leprechaun

May 2024

Network BSC

Address 0x9CDCA169a0c96eCB47c2310a23A4F7e91A40da87

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# **Analysis**

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Unresolved
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



# **Diagnostics**

<ul> <li>UTFA Unnecessary Transfer Fee Assignment</li> <li>IDI Immutable Declaration Improvement</li> <li>MVLN Misleading Variable lastTxTime Name</li> <li>MEE Missing Events Emission</li> <li>RED Redudant Event Declaration</li> <li>RAC Redundant Allowance Check</li> <li>RSW Redundant Storage Writes</li> <li>Unresolved</li> <li>RC Repetitive Calculations</li> <li>UTA Unnecessary Token Approval</li> <li>UWAS Unnecessary Winners Array Shifting</li> <li>Unresolved</li> <li>L02 State Variables could be Declared Constant</li> <li>Unresolved</li> <li>L04 Conformance to Solidity Naming Conventions</li> <li>Unresolved</li> </ul>			<ul><li>Critical</li><li>Medium</li><li>Min</li></ul>	or / Informative
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	•	L13	Divide before Multiply Operation	Unresolved



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# **Review**

Contract Name	Leprechaun
Compiler Version	v0.8.19+commit.7dd6d404
Optimization	200 runs
Explorer	https://bscscan.com/address/0x9cdca169a0c96ecb47c2310a2 3a4f7e91a40da87
Address	0x9cdca169a0c96ecb47c2310a23a4f7e91a40da87
Network	BSC
Symbol	LPC
Decimals	9
Total Supply	1,000,000,000,000
Badge Eligibility	Yes

# **Audit Updates**

Initial Audit	09 May 2024
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# **Source Files**

Filename	SHA256
Leprechaun.sol	eb1a375b0704dcd12e9ec755ed641f6d69d38605d1a026cc59426b230 94c1867



# **Findings Breakdown**



Sev	rerity	Unresolved	Acknowledged	Resolved	Other
•	Critical	1	0	0	0
	Medium	0	0	0	0
	Minor / Informative	13	0	0	0



## **ST - Stops Transactions**

Criticality	Critical
Location	Leprechaun.sol#L456
Status	Unresolved

### Description

The transactions are initially disabled for all users excluding the authorized addresses. The owner can enable the transactions for all users. Once the transactions are enable the owner will not be able to disable them again.

```
if (isLimitedAddress(from, to)) {
    require(isTradingEnabled, "Trading is not enabled");
}
```

#### 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.

#### Temporary Solutions:

These measurements do not decrease the severity of the finding

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-signature wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.

#### Permanent Solution:

Renouncing the ownership, which will eliminate the threats but it is non-reversible.



#### **UTFA - Unnecessary Transfer Fee Assignment**

Criticality	Minor / Informative
Location	Leprechaun.sol#L530
Status	Unresolved

#### Description

There exists an unnecessary assignment of the transfer fee (transferfee) to a variable named fee. The contract employs conditional logic to determine the appropriate fee based on whether the transaction is a buy, sell, or transfer operation. However, in cases where neither buying nor selling applies (isbuy and issell are both false), the transfer fee is assigned to the variable fee. Notably, the transfer fee (transferfee) is always defined as zero (0), rendering the assignment redundant.

```
uint256 public constant transferfee = 0;
...
uint256 fee;
if (isbuy) fee = buyfee;
else if (issell) fee = sellfee;
else fee = transferfee;
if (fee == 0) return amount;
```

#### Recommendation

The team is adviced to eliminate the unnecessary assignment of the transfer fee when neither buying nor selling conditions apply. Since the transfer fee is consistently zero, directly return the amount without assigning it to fee. By implementing these recommendations, the contract's efficiency can be improved, and its logic becomes clearer and less prone to misinterpretation.



# **IDI - Immutable Declaration Improvement**

Criticality	Minor / Informative
Location	Leprechaun.sol#L342
Status	Unresolved

# Description

The contract declares state variables that their value is initialized once in the constructor and are not modified afterwards. The <u>immutable</u> is a special declaration for this kind of state variables that saves gas when it is defined.

lpPair

#### Recommendation

By declaring a variable as immutable, the Solidity compiler is able to make certain optimizations. This can reduce the amount of storage and computation required by the contract, and make it more gas-efficient.



## **MVLN - Misleading Variable lastTxTime Name**

Criticality	Minor / Informative
Location	Leprechaun.sol#L501
Status	Unresolved

#### Description

In the provided contract, there exists a variable named lastTxTime which suggests it represents the timestamp of the last transaction. However, upon closer inspection, it is evident that this variable is only assigned a value within the context of buy transactions (is\_buy(from, to)). Consequently, lastTxTime does not accurately reflect the timestamp of the last transaction but rather signifies the timestamp of the last buy transaction. The current naming convention may lead to confusion and misinterpretation, potentially resulting in errors during contract maintenance or debugging.

```
if (is_buy(from, to)) {
    lastTxTime = block.timestamp;
    ...
}
```

#### Recommendation

Update the variable name lastTxTime to a more descriptive and accurate name, such as lastBuyTime, to reflect its actual purpose. This adjustment will enhance code readability and reduce the likelihood of misunderstanding its intended functionality.



# **MEE - Missing Events Emission**

Criticality	Minor / Informative
Location	Leprechaun.sol#L398
Status	Unresolved

### Description

The contract performs actions and state mutations from external methods that do not result in the emission of events. Emitting events for significant actions is important as it allows external parties, such as wallets or dApps, to track and monitor the activity on the contract. Without these events, it may be difficult for external parties to accurately determine the current state of the contract.

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

#### Recommendation

It is recommended to include events in the code that are triggered each time a significant action is taking place within the contract. These events should include relevant details such as the user's address and the nature of the action taken. By doing so, the contract will be more transparent and easily auditable by external parties. It will also help prevent potential issues or disputes that may arise in the future.



#### **RED - Redudant Event Declaration**

Criticality	Minor / Informative
Location	Leprechaun.sol#L310,312
Status	Unresolved

## Description

The contract uses events that are not emitted within the contract's functions. As a result, these declared events are redundant and serve no purpose within the contract's current implementation.

```
event _changeThreshold(uint256 newThreshold);
event _changeFees(uint256 buy, uint256 sell);
```

#### Recommendation

To optimize contract performance and efficiency, it is advisable to regularly review and refactor the codebase, removing the unused event declarations. This proactive approach not only streamlines the contract, reducing deployment and execution costs but also enhances readability and maintainability.



#### **RAC - Redundant Allowance Check**

Criticality	Minor / Informative
Location	Leprechaun.sol#L555
Status	Unresolved

#### Description

Within the provided contract, there exists a redundant allowance check within the internalSwapAndLiquify method. This method contains logic to verify the allowance between the contract and a specified address (swapRouter). However, during contract initialization in the constructor, the allowance is explicitly set to the maximum value using \_approve(address(this), address(swapRouter), type(uint256).max). Therefore, the subsequent allowance check within internalSwapAndLiquify becomes superfluous, as it always evaluates to true due to the allowance already being set to the maximum value.

```
// constructor
_approve(address(this), address(swapRouter), type(uint256).max);

// internalSwapAndLiquify method
if (
    _allowances[address(this)][address(swapRouter)] !=
type(uint256).max
) {
    _allowances[address(this)][address(swapRouter)] =
type(uint256).max;
}
```

#### Recommendation

The team is advised to eliminate the unnecessary allowance check within the internalSwapAndLiquify method. Since the allowance is initialized to the maximum value in the constructor and remains constant throughout contract execution, there is no need to perform redundant checks.



## **RSW - Redundant Storage Writes**

Criticality	Minor / Informative
Location	Leprechaun.sol#L398,435
Status	Unresolved

#### Description

The contract modifies the state of the following variables without checking if their current value is the same as the one given as an argument. As a result, the contract performs redundant storage writes, when the provided parameter matches the current state of the variables, leading to unnecessary gas consumption and inefficiencies in contract execution.

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

function changeLpPair(address newPair) external onlyOwner {
    isLpPair[newPair] = true;
    emit __changePair(newPair);
}
```

#### Recommendation

The team is advised to implement additional checks within to prevent redundant storage writes when the provided argument matches the current state of the variables. By incorporating statements to compare the new values with the existing values before proceeding with any state modification, the contract can avoid unnecessary storage operations, thereby optimizing gas usage.



#### **RC - Repetitive Calculations**

Criticality	Minor / Informative
Location	Leprechaun.sol#L484,496
Status	Unresolved

### Description

The contract contains methods with multiple occurrences of the same calculation being performed. The calculation is repeated without utilizing a variable to store its result, which leads to redundant code, hinders code readability, and increases gas consumption. Each repetition of the calculation requires computational resources and can impact the performance of the contract, especially if the calculation is resource-intensive.

```
if (is_sell(from, to) && !inSwap && canSwap(from, to)) {
    uint256 amountAfterFee = (takeFee)
    ? takeTaxes(from, is_buy(from, to), is_sell(from, to), amount)
    : amount;
```

#### Recommendation

To address this finding and enhance the efficiency and maintainability of the contract, it is recommended to refactor the code by assigning the calculation result to a variable once and then utilizing that variable throughout the method. By storing the calculation result in a variable, the contract eliminates the need for redundant calculations and optimizes code execution.

Refactoring the code to assign the calculation result to a variable has several benefits. It improves code readability by making the purpose and intent of the calculation explicit. It also reduces code redundancy, making the method more concise, easier to maintain, and gas effective. Additionally, by performing the calculation once and reusing the variable, the contract improves performance by avoiding unnecessary computations



# **UTA - Unnecessary Token Approval**

Criticality	Minor / Informative
Location	Leprechaun.sol#L347
Status	Unresolved

#### Description

It was identified that the contract's constructor grants an infinite approval to the Uniswap router for both the contract creator and the contract itself. This approval is granted through the \_approve function with the maximum possible allowance value, type(uint256).max , effectively allowing the Uniswap router to spend tokens from the contract creator without limit.

```
constructor() {
    ...
    _approve(msg.sender, address(swapRouter), type(uint256).max);
    _approve(address(this), address(swapRouter),
    type(uint256).max);
}
```

#### Recommendation

It is advised to review the necessity of granting infinite approval to the Uniswap router during contract deployment. If this approval is not essential for the contract's intended functionality, it should be removed or limited to the necessary allowance amount required for specific operations.

By restricting approval to the minimum necessary level, the contract can minimize the potential impact of malicious activities, such as unauthorized token transfers or manipulative trading behaviors, while still maintaining functionality with external protocols like Uniswap.



## **UWAS - Unnecessary Winners Array Shifting**

Criticality	Minor / Informative
Location	Leprechaun.sol#L501
Status	Unresolved

#### Description

In the provided contract, there exists a process to update a list of winners where new winners are inserted at the beginning of the array while shifting existing winners to accommodate the new entry. However, this approach introduces unnecessary gas costs associated with array shifting operations, particularly as the number of winners increases. Each iteration of the loop to shift winners incurs additional gas expenditure, potentially leading to inefficient contract execution.

#### Recommendation

Instead of shifting existing winners to make room for new entries at the beginning of the array, consider appending new winners to the end of the array. By adopting this approach, the contract can avoid the gas costs associated with array shifting, as new winners are added without affecting the existing entries.



#### L02 - State Variables could be Declared Constant

Criticality	Minor / Informative
Location	Leprechaun.sol#L282,283,284
Status	Unresolved

## Description

State variables can be declared as constant using the constant keyword. This means that the value of the state variable cannot be changed after it has been set. Additionally, the constant variables decrease gas consumption of the corresponding transaction.

```
uint256 private potAllocation = 50
uint256 private devAllocation = 25
uint256 private liquidityAllocation = 25
```

#### Recommendation

Constant state variables can be useful when the contract wants to ensure that the value of a state variable cannot be changed by any function in the contract. This can be useful for storing values that are important to the contract's behavior, such as the contract's address or the maximum number of times a certain function can be called. The team is advised to add the constant keyword to state variables that never change.



#### **L04 - Conformance to Solidity Naming Conventions**

Criticality	Minor / Informative
Location	Leprechaun.sol#L100,287,288,289,306,307,308,309,310,311,312,417,422
Status	Unresolved

#### Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

- 1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
- 2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
- 3. Use uppercase for constant variables and enums (e.g., MAX\_VALUE, ERROR\_CODE).
- 4. Use indentation to improve readability and structure.
- 5. Use spaces between operators and after commas.
- 6. Use comments to explain the purpose and behavior of the code.
- 7. Keep lines short (around 120 characters) to improve readability.

```
function WETH() external pure returns (address);
string private constant _name = "Leprechaun"
string private constant _symbol = "LPC"
uint8 private constant _decimals = 9
event _enableTrading();
event _setPresaleAddress(address account, bool enabled);
event _toggleCanSwapFees(bool enabled);
event _changePair(address newLpPair);
event _changeThreshold(uint256 newThreshold);
event _changeWallets(address newBuy);
event _changeFees(uint256 buy, uint256 sell);
...
```



## Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation

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



# L13 - Divide before Multiply Operation

Criticality	Minor / Informative
Location	Leprechaun.sol#L544,583
Status	Unresolved

### Description

It is important to be aware of the order of operations when performing arithmetic calculations. This is especially important when working with large numbers, as the order of operations can affect the final result of the calculation. Performing divisions before multiplications may cause loss of prediction.

#### Recommendation

To avoid this issue, it is recommended to carefully consider the order of operations when performing arithmetic calculations in Solidity. It's generally a good idea to use parentheses to specify the order of operations. The basic rule is that the multiplications should be prior to the divisions.



# **Functions Analysis**

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
		Public	1	-
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
	_setOwner	Private	1	
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	✓	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-



	sync	External	✓	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	✓	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-
	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupportingFee OnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFee OnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporting FeeOnTransferTokens	External	✓	-
	swapExactTokensForTokens	External	✓	-
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
		External		-
	symbol			
	name	External		-



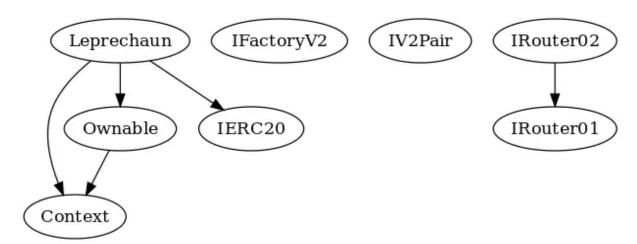
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	1	-
	transferFrom	External	1	-
Leprechaun	Implementation	Context, Ownable, IERC20		
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	allowance	External		-
	balanceOf	Public		-
		Public	✓	-
		External	Payable	-
	transfer	Public	✓	-
	approve	External	✓	-
	_approve	Internal	✓	
	transferFrom	External	✓	-
	isNoFeeWallet	External		-
	setNoFeeWallet	Public	1	onlyOwner
	isLimitedAddress	Internal		



is_buy	Internal		
is_sell	Internal		
canSwap	Internal		
changeLpPair	External	1	onlyOwner
toggleCanSwapFees	External	✓	onlyOwner
_transfer	Internal	✓	
changeWallets	External	1	onlyOwner
takeTaxes	Internal	1	
internalSwapAndLiquify	Internal	1	inSwapFlag
calculatePrizes	Public		-
setPresaleAddress	External	1	onlyOwner
enableTrading	External	✓	onlyOwner

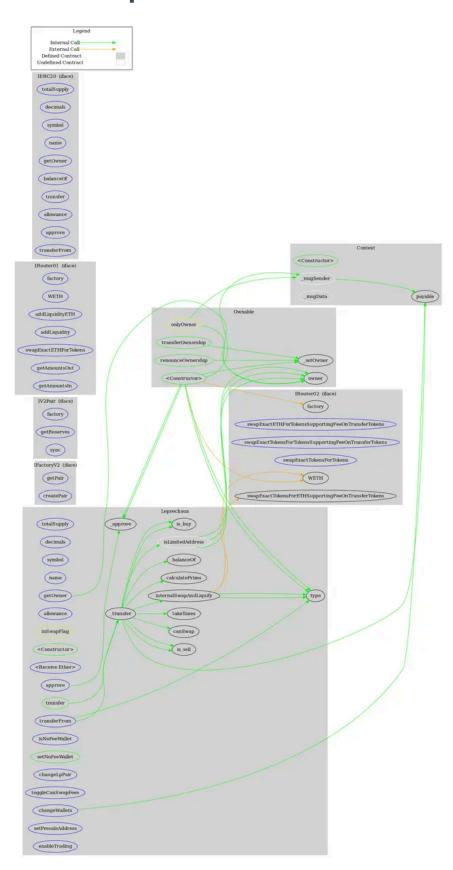


# **Inheritance Graph**





# Flow Graph





# **Summary**

Leprechaun contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. There are some functions that can be abused by the owner like stop transactions. 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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