



Squid Grok Token

RugfreeCoins Verified on November 19th, 2023

Overview

- No mint function found, the owner cannot mint tokens after initial deployment.
- The owner can't set a max transaction limit
- ▼ The owner can't pause trading once it's enabled
- X The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.
- The owner can't change fees.
- The owner can't blacklist wallets.
- ▼ The owner can't set a max wallet limit
- The owner can't claim the contract's balance of its own token.

! HIGH SEVERITY ISSUES

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() external onlyOwner{
    require(tradingEnabled == false, "Trading is already enabled");
    tradingEnabled = true;
}
```

The owner can change the marketing wallet, and if the owner sets it to a contract that cannot receive BNB, both swaps and sells will fail since the marketing wallet receives BNB.

```
function changeMarketingWallet(address _marketingWallet) external onlyOwner {
    require(_marketingWallet != marketingWallet, "Marketing wallet is already
that address");
    require(_marketingWallet!=address(0), "Marketing wallet is the zero
address");
    marketingWallet = _marketingWallet;
    emit MarketingWalletChanged(marketingWallet);
}
```

The owner can change the swap limit without specifying a maximum amount. If the owner sets the swap amount to an excessively large value, swaps will fail when the contract attempts to swap a substantial amount of tokens at once.

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner() {
    require(newAmount > totalSupply() / 1e5, "SwapTokensAtAmount must be greater
than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
    emit SwapTokensAtAmountUpdated(newAmount);
}

function setSwapEnabled(bool _enabled) external onlyOwner {
    swapEnabled = _enabled;
    emit SwapEnabledUpdated(_enabled);
}
```

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Audit details



Audited project

Squid Grok Token



Contract Address

0xC1FC3380dD5CF1E55f70C0fc97f3e17db446c0F2



Client contact

Squid Grok Token Team



Blockchain

Binance Smart chain



Project website

https://squidgrok.online/

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

RugfreeCoins was commissioned by the Squid Grok Token Team to perform an audit of the smart contract.

https://bscscan.com/address/0xC1FC3380dD5CF1E55f70C0fc97f3e17db446c0F2

This audit focuses on verifying that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

Tokenomics

▲ 5% tax when buying & selling (19/11/2023)

5% of trade goes to the marketing wallet in BNB

0% trade is distributed among holders as rewards in tokens.

0% of trade goes to the Liquidity Pool

Target market and the concept

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in taking part in the Squid Grok token ecosystem.
- Anyone who's interested in taking part in the future plans of Squid Grok Token.
- Anyone who's interested in making financial transactions with any other party using Squid Grok Token as the currency.

Potential to grow with score points

→ Project efficiency	8/10
* Project uniqueness	8/10
Information quality	8 / 10
Service quality	8 / 10
System quality	8 / 10
impact on the community	8 / 10
impact on the business	9 / 10
Preparing for the future	8 / 10
Grant contract security	7 / 10
Smart contract functionality assessment	7 / 10
Total Score	7.9 / 10

Contract details

Token contract details for 19th of November 2023

Contract name	Squid Grok
Contract address	0xC1FC3380dD5CF1E55f70C0fc97f3e17db446c0F2
Token supply	1,000,000,000
Token ticker	Squid Grok
Decimals	9
Token holders	2
Transaction count	2
Contract deployer address	0x0Eb2F479ab635EDbB20b6B01165F935BC3436Ec1
Contract's current owner address	0x0Eb2F479ab635EDbB20b6B01165F935BC3436Ec1
Marketing wallet	0x3Feec370Fa390B5d6D4C6BDC21b014d73206820e

Contract code function details

Nº	Category	Item	Result
		ERC20 Token standards	PASS -
		Compile errors	PASS +
		Compiler version security	PASS +
		Visibility specifiers	PASS -
		Gas consumption	MEDIUM -
1	Coding conventions	SafeMath features	PASS -
		Fallback usage	PASS -
		tx.origin usage	PASS -
		Deprecated items	PASS +
		Redundant code	MEDIUM •
		Overriding variables	PASS -
		Authorization of function call	PASS -
2	Function call audit	Low level function (call/delegate call) security	PASS -
_		Returned value security	PASS -
		Self destruct function security	PASS -
		Access control of owners	HIGH •
3	Business security & centralisation	Business logics	MEDIUM •
		Business implementation	PASS -
4	Integer overflow/underflow		PASS +
5	Reentrancy		PASS -
6	Exceptional reachable state		PASS -
7	Transaction ordering dependence		PASS -
8	Block properties dependence		PASS -
9	Pseudo random number generator (PRN	NG)	PASS -
10	DoS (Denial of Service)		PASS -
11	Token vesting implementation		PASS -
12	Fake deposit		PASS -
13	Event security		PASS -

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 🔒		
L	_msgData	Internal 🔒		
'				
Ownable	Implementation	Context		
L		Public		NO !
L	owner	Public !		NO !
L	renounceOwnership	Public !		onlyOwne
L	transferOwnership	Public !		onlyOwne
IERC20	Interface			
L	totalSupply	External		NO !
L	balanceOf	External		NO !
L	transfer	External		NO !
L	allowance	External		NO !
L	approve	External		NO !
L	transferFrom	External		NO !
Address	Library			
L	isContract	Internal 🔒		
L	sendValue	Internal 🔒		

L	functionCall	Internal 🔒		
L	functionCall	Internal 🔒		
L	functionCallWithValue	Internal 🔒		
L	functionCallWithValue	Internal 🔒		
L				
	_functionCallWithValue	Private 🔐		
IUniswapV2F actory	Interface			
L	feeTo	External !		NO !
L	feeToSetter	External !		NO !
L	getPair	External !		NO !
L	allPairs	External !		NO !
L	allPairsLength	External !		NO !
L	createPair	External !		NO !
L	setFeeTo	External !		NO !
L	setFeeToSetter	External !	•	NO !
IUniswapV2 Pair	Interface			
L	name	External !		NO !
L	symbol	External		NO !
L	decimals	External		NO !
L	totalSupply	External !		NO !
L	balanceOf	External		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transfer	External !		NO !
L	transferFrom	External !		NO !
L	DOMAIN_SEPARATOR	External !		NO !
L	PERMIT_TYPEHASH	External		NO !

L	nonces	External	NO !
L	permit	External	NO !
L	MINIMUM_LIQUIDITY	External	NO !
L	factory	External	NO !
L	token0	External	NO !
L	token1	External	NO !
L	getReserves	External	NO !
L	price0CumulativeLast	External	NO !
L	price1CumulativeLast	External	NO !
L	kLast	External	NO !
L	burn	External	NO !
L	swap	External	NO !
L	skim	External	NO !
L	sync	External	NO !
L	initialize	External	NO !
IUniswapV2R outer01	Interface		
L	factory	External	NO !
L	WETH	External	NO !
L	addLiquidity	External	NO !
L	addLiquidityETH	External	\$ NO !
L	removeLiquidity	External	NO !
L	removeLiquidityETH	External	NO !
L	removeLiquidityWithPermit	External !	NO !
L	removeLiquidityETHWithPermit	External	NO !
L	swapExactTokensForTokens	External	NO !
L	swapTokensForExactTokens	External !	NO !
	Swap Tokenor or Exact Tokeno		
L	swapExactETHForTokens	External !	\$ NO !

L	swapExactTokensForETH	External !		NO !
L	swapETHForExactTokens	External !	S	NO !
L	quote	External !		NO !
L	getAmountOut	External !		NO !
L	getAmountIn	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External		NO !
IUniswapV2 Router02	Interface	IUniswapV 2Router01		
L	removeLiquidityETHSupportingFeeOnTransf erTokens	External !		NO !
L	removeLiquidityETHWithPermitSupportingF eeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFee OnTransferTokens	External !		NO !
L	swapExactETHForTokensSupportingFeeOn TransferTokens	External !	S	NO !
L	swapExactTokensForETHSupportingFeeOn TransferTokens	External !		NO !
TOKEN	Implementation	Context, IERC20, Ownable		
L		Public !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	totalSupply	Public !		NO !
L	balanceOf	Public !		NO !
L	transfer	Public !		NO !
L	allowance	Public !		NO !
L	approve	Public !		NO !
L	transferFrom	Public !		NO !

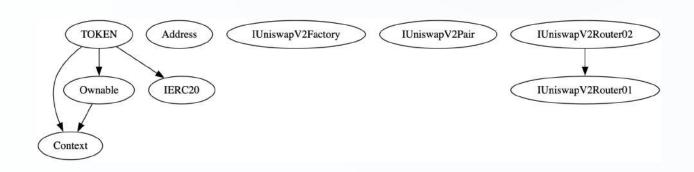
L	increaseAllowance	Public		NO !
L	decreaseAllowance	Public !		NO !
L	isExcludedFromReward	Public !		NO !
L	totalReflectionDistributed	Public !		NO !
L	deliver	Public !		NO !
L	reflectionFromToken	Public !		NO !
L	tokenFromReflection	Public !		NO !
L	excludeFromReward	Public !		onlyOwne
L	includeInReward	External !		onlyOwne
L		External !	(\$	NO !
L	claimStuckTokens	External !		onlyOwne
L	_reflectFee	Private 🔐		
L	_getValues	Private 🔐		
L	_getTValues	Private 🔐		
L	_getRValues	Private 🔐		
L	_getRate	Private 🔐		
L	_getCurrentSupply	Private 🔐		
L	_takeLiquidity	Private 🔐		
L	_takeMarketing	Private 🔐		
L	calculateTaxFee	Private 🔐		
L	calculateLiquidityFee	Private 🔐		
L	calculateMarketingFee	Private 🔐		
L	removeAllFee	Private 🔐		
L	setBuyFee	Private 🔐		
L	setSellFee	Private 🔐		
L	isExcludedFromFee	Public		NO !
L	_approve	Private 🔐		
L	enableTrading	External		onlyOwne
L	_transfer	Private 🔐		

L	swapAndLiquify	Private 🔐		
L	swapAndSendMarketing	Private 🔐		
L	setSwapTokensAtAmount	External		onlyOwner
L	setSwapEnabled	External		onlyOwner
L	_tokenTransfer	Private 🔐		
L	_transferStandard	Private 🔐		
L	_transferToExcluded	Private 🔐		
L	_transferFromExcluded	Private 🔐	•	
L	_transferBothExcluded	Private 🔐		
L	excludeFromFees	External		onlyOwner
L	changeMarketingWallet	External		onlyOwner

Legend

Symbol	Meaning
	Function can modify state
S	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() external onlyOwner{
    require(tradingEnabled == false, "Trading is already enabled");
    tradingEnabled = true;
}
```

The owner can change the marketing wallet, and if the owner sets it to a contract that cannot receive BNB, both swaps and sells will fail since the marketing wallet receives BNB.

```
function changeMarketingWallet(address _marketingWallet) external onlyOwner {
    require(_marketingWallet != marketingWallet, "Marketing wallet is already
that address");
    require(_marketingWallet!=address(0), "Marketing wallet is the zero
address");
    marketingWallet = _marketingWallet;
    emit MarketingWalletChanged(marketingWallet);
}
```

The owner can change the swap limit without specifying a maximum amount. If the owner sets the swap amount to an excessively large value, swaps will fail when the contract attempts to swap a substantial amount of tokens at once.

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner() {
    require(newAmount > totalSupply() / 1e5, "SwapTokensAtAmount must be greater
than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
    emit SwapTokensAtAmountUpdated(newAmount);
}

function setSwapEnabled(bool _enabled) external onlyOwner {
    swapEnabled = _enabled;
    emit SwapEnabledUpdated(_enabled);
}
```

Medium severity issues

When transferring fees to the contract, it does not emit a transfer event. Consequently, the fees in the contract do not appear on BscScan.

```
000
   function _takeLiquidity(uint256 tLiquidity) private {
       if (tLiquidity > 0) {
           uint256 currentRate = _getRate();
           uint256 rLiquidity = tLiquidity * currentRate;
            _r0wned[address(this)] = _r0wned[address(this)] + rLiquidity;
           if(_isExcluded[address(this)])
                _tOwned[address(this)] = _tOwned[address(this)] + tLiquidity;
       }
   function _takeMarketing(uint256 tMarketing) private {
       if (tMarketing > 0) {
           uint256 currentRate = _getRate();
           uint256 rMarketing = tMarketing * currentRate;
            _rOwned[address(this)] = _rOwned[address(this)] + rMarketing;
           if(_isExcluded[address(this)])
                _tOwned[address(this)] = _tOwned[address(this)] + tMarketing;
       }
   }
```

The reward fee and liquidity fees are default set to 0, and the owner cannot modify them subsequently. As a result, all functions associated with rewards and liquidity addition are redundant, constituting approximately 60% of the code.

```
taxFeeonBuy = 0;
taxFeeonSell = 0;

liquidityFeeonBuy = 0;
liquidityFeeonSell = 0;

marketingFeeonBuy = 5;
marketingFeeonSell = 5;
```

Low severity issues

No low-severity issues found

Owner privileges

 Owner can include/exclude wallets from fees, this functions are redundant since contract never send rewards

```
000
    function excludeFromReward(address account) public onlyOwner() {
        require(!_isExcluded[account], "Account is already excluded");
        if(_r0wned[account] > 0) {
            _tOwned[account] = tokenFromReflection(_rOwned[account]);
        _isExcluded[account] = true;
        _excluded.push(account);
    function includeInReward(address account) external onlyOwner() {
        require(_isExcluded[account], "Account is already included");
        for (uint256 i = 0; i < _excluded.length; i++) {</pre>
            if (_excluded[i] == account) {
                _excluded[i] = _excluded[_excluded.length - 1];
                _tOwned[account] = 0;
                _isExcluded[account] = false;
                _excluded.pop();
                break;
       }
   }
```

Owner can get any bep20 tokens from the contract (can not withdraw native tokens)

```
function claimStuckTokens(address token) external onlyOwner {
    require(token != address(this), "Owner cannot claim native tokens");
    if (token == address(0x0)) {
        payable(msg.sender).sendValue(address(this).balance);
        return;
    }
    IERC20 ERC20token = IERC20(token);
    uint256 balance = ERC20token.balanceOf(address(this));
    ERC20token.transfer(msg.sender, balance);
}
```

Owner can enable trading, once enabled can not disable again

```
function enableTrading() external onlyOwner{
    require(tradingEnabled == false, "Trading is already enabled");
    tradingEnabled = true;
}
```

Owner can change the swap point and can enable/disable swapping

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner() {
    require(newAmount > totalSupply() / 1e5, "SwapTokensAtAmount must be greater
than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
    emit SwapTokensAtAmountUpdated(newAmount);
}

function setSwapEnabled(bool _enabled) external onlyOwner {
    swapEnabled = _enabled;
    emit SwapEnabledUpdated(_enabled);
}
```

Owner can include/exclude wallets from fees

```
function excludeFromFees(address account, bool excluded) external onlyOwner {
    require(_isExcludedFromFees[account] != excluded, "Account is already the
value of 'excluded'");
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}
```

❖ Owner can change marketing wallet

```
function changeMarketingWallet(address _marketingWallet) external onlyOwner {
    require(_marketingWallet != marketingWallet, "Marketing wallet is already
that address");
    require(_marketingWallet!=address(0), "Marketing wallet is the zero
address");
    marketingWallet = _marketingWallet;
    emit MarketingWalletChanged(marketingWallet);
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testing, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

