



SMART CONTRACT SECURITY AUDIT for



Ether Cake

Token Overview

0xSafe received the application for a smart contract security audit of **EtherCake** on April 4th, 2022.

Details

Client: EtherCake [\$ECAKE]

Blockchain: Binance Smart Chain

Contract: [0x0C07358EC722A32E929aa6aF0B7FEb3D2Da3c863](#)

Compiler: v0.8.4+commit.c7e474f2

Optimization: Yes with 200 runs

Website: <https://ethercake.app>

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Methodology

Audit Details

This comprehensive audit report provides an overview of the **EtherCake** token smart contract. 0xSafe utilizes a combination of static, automated, and manual analysis tools to check for any potential vulnerabilities or hacks in the system.

Code Quality

This includes a full review of the smart contract code. The prime areas of focus are:

- Accuracy
- Exploits
- Functionality
- Readability
- Security
- Vulnerabilities

Scope of work

EtherCake's team provided us with the files that need to be tested (BSCscan, Etherscan, Github, etc.). The focus of the security audit is the main token smart contract.

Tools

Ganache, Mithril, MythX, Open Zeppelin Code Analyzer, Proprietary tests, Remix IDE, Solidity Compiler, SWC Registry.

Risk Classification

!Critical	This signifies vulnerabilities with the smart contract's functionality or performance. Issues should be resolved immediately.
!Medium	This signifies vulnerabilities that can potentially cause problems and should eventually be fixed.
!Minor	Minor vulnerabilities may or may not impact smart contract functionality.
!Informational	This is there to offer suggestions for improvement

Audit Findings

Critical Issues

-no critical issues found-

Medium Issues

-no medium issues found-

Minor Issues

Issue	Type	Line #(s)	Description
#1	A floating pragma is set.	7	Current pragma directive is: "^v0.8.4"
#3	Use of "tx.origin" as a part of authorization	681, 686, 691, 2162, 2176, 2416, 2433, 2450, 2467,	Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities.
#4	Potential use of "block.number" as source of randomness	1686, 2192, 2253, 2264, 2271	Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner.

SWC Attacks

SWC ID	Description	Status
SWC-100	Function Default Visibility	PASSED
SWC-101	Integer Overflow and Underflow	PASSED
SWC-102	Outdated Compiler Version	PASSED
SWC-103	Floating Pragma	MINOR
SWC-104	Unchecked Call Return Value	PASSED
SWC-105	Unprotected Ether Withdrawal	PASSED
SWC-106	Unprotected SELFDESTRUCT Instruction	PASSED
SWC-107	Reentrancy	PASSED
SWC-108	State Variable Default Visibility	PASSED
SWC-109	Uninitialized Storage Pointer	PASSED
SWC-110	Assert Violation	PASSED
SWC-111	Use of Deprecated Solidity Functions	PASSED
SWC-112	Delegatecall to Untrusted Callee	PASSED
SWC-113	DoS with Failed Call	PASSED
SWC-114	Transaction Order Dependence	PASSED
SWC-115	Authorization through tx.origin	MINOR
SWC-116	Block values as a proxy for time	PASSED
SWC-117	Signature Malleability	PASSED
SWC-118	Incorrect Constructor Name	PASSED
SWC-119	Shadowing State Variables	PASSED
SWC-120	Weak Sources of Randomness from Chain Attributes	MINOR
SWC-121	Missing Protection against Signature Replay Attacks	PASSED

SWC-122	Lack of Proper Signature Verification	PASSED
SWC-123	Requirement Violation	PASSED
SWC-124	Write to Arbitrary Storage Location	PASSED
SWC-125	Incorrect Inheritance Order	PASSED
SWC-126	Insufficient Gas Griefing	PASSED
SWC-127	Arbitrary Jump with Function Type Variable	PASSED
SWC-128	DoS With Block Gas Limit	PASSED
SWC-129	Typographical Error	PASSED
SWC-130	Right-To-Left-Override control character (U+202E)	PASSED
SWC-131	Presence of unused variables	PASSED
SWC-132	Unexpected Ether balance	PASSED
SWC-133	Hash Collisions With Multiple Variable Length Arguments	PASSED
SWC-134	Message call with hardcoded gas amount	PASSED
SWC-135	Code With No Effects	PASSED
SWC-136	Unencrypted Private Data On-Chain	PASSED

Important Notes

Owner can exclude from fees

```
function excludeFromFees(address account, bool excluded) public onlyOwner {  
    require(isExcludedFromFees[account] != excluded, "Already excluded");  
    isExcludedFromFees[account] = excluded;  
  
    emit ExcludeFromFees(account, excluded);  
}
```

Owner can exclude from rewards

```
function excludeFromDividend(address account) public onlyOwner {  
    t1DividendTracker.excludeFromDividends(address(account));  
    t2DividendTracker.excludeFromDividends(address(account));  
}
```

Owner can blacklist addresses

```
function addToBlacklist(address account, bool excluded) external onlyOwner {  
    _isSoB[account] = excluded;  
    emit BUser(account, excluded);  
}
```

Owner can set the max wallet balance to 0%

```
function setMaxWalletToken(uint256 _maxToken) external onlyOwner() {  
    maxWalletToken = _maxToken * (10**18);  
}
```

Owner can set the max transaction to 0%

```
function setMaxBuyTransaction(uint256 _maxTxn) external onlyOwner {  
    maxBuyTransactionAmount = _maxTxn * (10**18);  
}
```

```
function setMaxSellTransaction(uint256 _maxTxn) external onlyOwner {  
    maxSellTransactionAmount = _maxTxn * (10**18);  
}
```

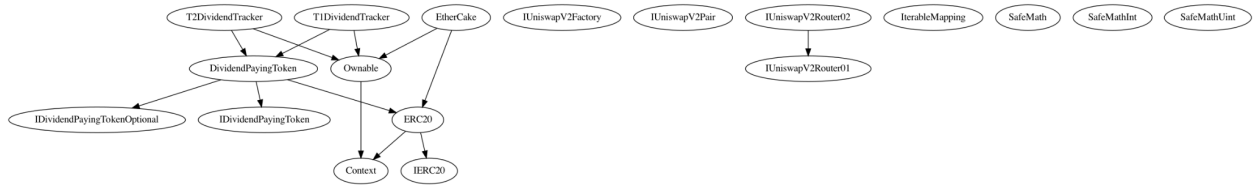
Owner can pause trading

```
function setTradingIsEnabled(bool _enabled) public onlyOwner {  
    tradingIsEnabled = _enabled;  
}
```


Good Practices

- Owner cannot mint new tokens after initial deployment
- Owner cannot set fees more than 25%
- The smart contract utilizes “SafeMath” to prevent overflows





Inheritance Tree


















Contract Inspection





Below is a visual description report comprising of information about the system's files, contracts, and their functions.

Legend

Symbol	Meaning
:-----: -----	
	Function can modify state
	Function is payable
	Internal function
NO 	Function has no modifier

























Table

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
Context	Implementation				
L	_msgSender	Internal 			
L	_msgData	Internal 			
Ownable	Implementation	Context			
L	<Constructor>	Public   NO 			
L	owner	Public 	NO 		
L	renounceOwnership	Public  	onlyOwner		
L	transferOwnership	Public  	onlyOwner		
IERC20	Interface				
L	totalSupply	External 	NO 		
L	balanceOf	External 	NO 		

```
|  | transfer | External | ! |  | NO | ! |
|  | allowance | External | ! |  | NO | ! |
|  | approve | External | ! |  | NO | ! |
|  | transferFrom | External | ! |  | NO | ! |
```

|||||

| ****ERC20**** | Implementation | Context, IERC20 | |||

```
|  | <Constructor> | Public | ! |  | NO | ! |
|  | name | Public | ! |  | NO | ! |
|  | symbol | Public | ! |  | NO | ! |
|  | decimals | Public | ! |  | NO | ! |
|  | totalSupply | Public | ! |  | NO | ! |
|  | balanceOf | Public | ! |  | NO | ! |
|  | transfer | Public | ! |  | NO | ! |
|  | allowance | Public | ! |  | NO | ! |
|  | approve | Public | ! |  | NO | ! |
|  | transferFrom | Public | ! |  | NO | ! |
|  | increaseAllowance | Public | ! |  | NO | ! |
|  | decreaseAllowance | Public | ! |  | NO | ! |
|  | _transfer | Internal |  |  | |
|  | _mint | Internal |  |  | |
|  | _burn | Internal |  |  | |
|  | _approve | Internal |  |  | |
|  | _setupDecimals | Internal |  |  | |
|  | _beforeTokenTransfer | Internal |  |  | |
```




|||||

| ****IDividendPayingToken**** | Interface | |||

```
|  | dividendOf | External | ! |  | NO | ! |
|  | withdrawDividend | External | ! |  | NO | ! |
```





|||||

| ****IDividendPayingTokenOptional**** | Interface | |||



```
|  | withdrawableDividendOf | External | ! |  | NO | ! |
|  | withdrawnDividendOf | External | ! |  | NO | ! |
|  | accumulativeDividendOf | External | ! |  | NO | ! |
```

|||||

| ****DividendPayingToken**** | Implementation | ERC20, IDividendPayingToken, IDividendPayingTokenOptional | |||

```
|  | <Constructor> | Public | ! |  | ERC20 | |
|  | <Receive Ether> | External | ! |  | NO | ! |
|  | distributeDividends | Public | ! |  | NO | ! |
|  | withdrawDividend | Public | ! |  | NO | ! |
```

```

|  | setOnlyCaller | External | ! |  | NO ! |
|  | setDividendTokenAddress | External | ! |  | NO ! |
|  | setMinTokenBeforeSendDividend | External | ! |  | NO ! |
|  | _withdrawDividendOfUser | Internal |  |  ||
|  | dividendOf | Public | ! | | NO ! |
|  | withdrawableDividendOf | Public | ! | | NO ! |
|  | withdrawnDividendOf | Public | ! | | NO ! |
|  | accumulativeDividendOf | Public | ! | | NO ! |
|  | _transfer | Internal |  |  ||
|  | _mint | Internal |  |  ||
|  | _burn | Internal |  |  ||
|  | _setBalance | Internal |  |  ||
|||||
| **|UniswapV2Factory** | Interface | |||
|  | feeTo | External | ! | | NO ! |
|  | feeToSetter | External | ! | | NO ! |
|  | getPair | External | ! | | NO ! |
|  | allPairs | External | ! | | NO ! |
|  | allPairsLength | External | ! | | NO ! |
|  | createPair | External | ! |  | NO ! |
|  | setFeeTo | External | ! |  | NO ! |
|  | setFeeToSetter | External | ! |  | NO ! |
|||||
| **|UniswapV2Pair** | Interface | |||
|  | name | External | ! | | NO ! |
|  | symbol | External | ! | | NO ! |
|  | decimals | External | ! | | NO ! |
|  | totalSupply | External | ! | | NO ! |
|  | balanceOf | External | ! | | NO ! |
|  | allowance | External | ! | | NO ! |
|  | approve | External | ! |  | NO ! |
|  | transfer | External | ! |  | NO ! |
|  | transferFrom | External | ! |  | NO ! |
|  | DOMAIN_SEPARATOR | External | ! | | NO ! |
|  | PERMIT_TYPEHASH | External | ! | | NO ! |
|  | nonces | External | ! | | NO ! |
|  | permit | External | ! |  | NO ! |
|  | MINIMUM_LIQUIDITY | External | ! | | NO ! |
|  | factory | External | ! | | NO ! |
|  | token0 | External | ! | | NO ! |

```

```

|  | token1 | External ! | |NO ! |
|  | getReserves | External ! | |NO ! |
|  | price0CumulativeLast | External ! | |NO ! |
|  | price1CumulativeLast | External ! | |NO ! |
|  | kLast | External ! | |NO ! |
|  | mint | External ! | ● |NO ! |
|  | burn | External ! | ● |NO ! |
|  | swap | External ! | ● |NO ! |
|  | skim | External ! | ● |NO ! |
|  | sync | External ! | ● |NO ! |
|  | initialize | External ! | ● |NO ! |
|||||
| **IUniswapV2Router01** | Interface | |||
|  | factory | External ! | |NO ! |
|  | WETH | External ! | |NO ! |
|  | addLiquidity | External ! | ● |NO ! |
|  | addLiquidityETH | External ! | 💵 |NO ! |
|  | removeLiquidity | External ! | ● |NO ! |
|  | removeLiquidityETH | External ! | ● |NO ! |
|  | removeLiquidityWithPermit | External ! | ● |NO ! |
|  | removeLiquidityETHWithPermit | External ! | ● |NO ! |
|  | swapExactTokensForTokens | External ! | ● |NO ! |
|  | swapTokensForExactTokens | External ! | ● |NO ! |
|  | swapExactETHForTokens | External ! | 💵 |NO ! |
|  | swapTokensForExactETH | External ! | ● |NO ! |
|  | swapExactTokensForETH | External ! | ● |NO ! |
|  | swapETHForExactTokens | External ! | 💵 |NO ! |
|  | quote | External ! | |NO ! |
|  | getAmountOut | External ! | |NO ! |
|  | getAmountIn | External ! | |NO ! |
|  | getAmountsOut | External ! | |NO ! |
|  | getAmountsIn | External ! | |NO ! |
|||||
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
|  | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● |NO ! |
|  | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ●
|NO ! |
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ●
|NO ! |

```

```

|  ↳ swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 💰
|NO ! |
|  ↳ swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | 🛑
|NO ! |
||||| |
| **IterableMapping** | Library | |||
|  ↳ get | Public ! | |NO ! |
|  ↳ getIndexOfKey | Public ! | |NO ! |
|  ↳ getKeyAtIndex | Public ! | |NO ! |
|  ↳ size | Public ! | |NO ! |
|  ↳ set | Public ! | 🛑 |NO ! |
|  ↳ remove | Public ! | 🛑 |NO ! |
|||||
| **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 🔒 | |
|||||
| **SafeMathInt** | Library | |||
|  ↳ mul | Internal 🔒 | |
|  ↳ div | Internal 🔒 | |
|  ↳ sub | Internal 🔒 | |
|  ↳ add | Internal 🔒 | |
|  ↳ toUint256Safe | Internal 🔒 | |
|||||
| **SafeMathUint** | Library | |||
|  ↳ toInt256Safe | Internal 🔒 | |
|||||
| **EtherCake** | Implementation | ERC20, Ownable |||
|  ↳ <Constructor> | Public ! | 🛑 | ERC20 |

```

	<Receive Ether>	External !	🇸🇬	NO !
	activateContract	Public !	🔴	onlyOwner
	setMaxBuyTransaction	External !	🔴	onlyOwner
	setMaxSellTransaction	External !	🔴	onlyOwner
	updateT1DividendToken	External !	🔴	onlyOwner
	updateT2DividendToken	External !	🔴	onlyOwner
	updateMinT1BeforeSendDividend	External !	🔴	onlyOwner
	updateMinT2BeforeSendDividend	External !	🔴	onlyOwner
	getMinT1BeforeSendDividend	External !		NO !
	getMinT2BeforeSendDividend	External !		NO !
	setSendT1InTx	External !	🔴	onlyOwner
	setSendT2InTx	External !	🔴	onlyOwner
	setT1DividendPriority	External !	🔴	onlyOwner
	updateStakingWallet	External !	🔴	onlyOwner
	updateMarketingWallet	External !	🔴	onlyOwner
	setMaxWalletToken	External !	🔴	onlyOwner
	setSwapTokensAtAmount	External !	🔴	onlyOwner
	setSellTransactionMultiplier	External !	🔴	onlyOwner
	setABSellMultiplier	External !	🔴	onlyOwner
	afterPreSale	External !	🔴	onlyOwner
	setTradingIsEnabled	External !	🔴	onlyOwner
	addToBlacklist	External !	🔴	onlyOwner
	addMultipleAccountsToBlacklist	External !	🔴	onlyOwner
	IsSoB	Public !		NO !
	setABActive	External !	🔴	onlyOwner
	setGasPriceLimit	External !	🔴	onlyOwner
	setBlocksToWait	External !	🔴	onlyOwner
	withdrawBNB	Public !	🔴	onlyOwner
	withdrawForeignToken	Public !	🔴	onlyOwner
	setMinimumSellOrderAmount	Public !	🔴	onlyOwner
	_updateTotalFee	Internal 🔒	🔴	
	setSwapAndLiquifyEnabled	External !	🔴	onlyOwner
	setT1DividendEnabled	External !	🔴	onlyOwner
	setT2DividendEnabled	External !	🔴	onlyOwner
	setMarketingEnabled	External !	🔴	onlyOwner
	updateT1DividendTracker	External !	🔴	onlyOwner
	updateT2DividendTracker	External !	🔴	onlyOwner
	updateT1DividendRewardFee	External !	🔴	onlyOwner
	updateT2DividendRewardFee	External !	🔴	onlyOwner
	updateMarketingFee	External !	🔴	onlyOwner

```

|  | updateLiquidityFee | External ! | 🔴 | onlyOwner |
|  | updateUniswapV2Router | External ! | 🔴 | onlyOwner |
|  | excludeFromFees | Public ! | 🔴 | onlyOwner |
|  | excludeFromDividend | Public ! | 🔴 | onlyOwner |
|  | setAutomatedMarketMakerPair | Public ! | 🔴 | onlyOwner |
|  | _setAutomatedMarketMakerPair | Private 🔒 | 🔴 | onlyOwner |
|  | updateGasForProcessing | External ! | 🔴 | onlyOwner |
|  | updateMinimumBalanceForDividends | External ! | 🔴 | onlyOwner |
|  | updateClaimWait | External ! | 🔴 | onlyOwner |
|  | getT1ClaimWait | External ! | | NO ! |
|  | getT2ClaimWait | External ! | | NO ! |
|  | getTotalT1DividendsDistributed | External ! | | NO ! |
|  | getTotalT2DividendsDistributed | External ! | | NO ! |
|  | getIsExcludedFromFees | Public ! | | NO ! |
|  | withdrawableT1DividendOf | External ! | | NO ! |
|  | withdrawableT2DividendOf | External ! | | NO ! |
|  | t1DividendTokenBalanceOf | External ! | | NO ! |
|  | t2DividendTokenBalanceOf | External ! | | NO ! |
|  | getAccountT1DividendsInfo | External ! | | NO ! |
|  | getAccountT2DividendsInfo | External ! | | NO ! |
|  | getAccountT1DividendsInfoAtIndex | External ! | | NO ! |
|  | getAccountT2DividendsInfoAtIndex | External ! | | NO ! |
|  | processDividendTracker | External ! | 🔴 | onlyOwner |
|  | rand | Internal 🔒 | | |
|  | claim | External ! | 🔴 | NO ! |
|  | getLastT1DividendProcessedIndex | External ! | | NO ! |
|  | getLastT2DividendProcessedIndex | External ! | | NO ! |
|  | getNumberOfT1DividendTokenHolders | External ! | | NO ! |
|  | getNumberOfT2DividendTokenHolders | External ! | | NO ! |
|  | _transfer | Internal 🔒 | 🔴 | |
|  | swapAndLiquify | Private 🔒 | 🔴 | |
|  | addLiquidity | Private 🔒 | 🔴 | |
|  | swapTokensForBNB | Private 🔒 | 🔴 | |
|  | swapTokensForDividendToken | Private 🔒 | 🔴 | |
|  | swapAndSendT1Dividends | Private 🔒 | 🔴 | |
|  | swapAndSendT2Dividends | Private 🔒 | 🔴 | |
|  | transferToWallet | Private 🔒 | 🔴 | |
|||||
| **T1DividendTracker** | Implementation | DividendPayingToken, Ownable |||
|  | <Constructor> | Public ! | 🔴 | DividendPayingToken |

```



```

|  | _transfer | Internal 🔒 | | |
|  | withdrawDividend | Public ! | | NO ! |
|  | setDividendTokenAddress | External ! | 🔴 | onlyOwner |
|  | updateMinimumTokenBalanceForDividends | External ! | 🔴 | onlyOwner |
|  | excludeFromDividends | External ! | 🔴 | onlyOwner |
|  | updateClaimWait | External ! | 🔴 | onlyOwner |
|  | getLastProcessedIndex | External ! | | NO ! |
|  | getNumberOfTokenHolders | External ! | | NO ! |
|  | getAccount | Public ! | | NO ! |
|  | getAccountAtIndex | Public ! | | NO ! |
|  | canAutoClaim | Private 🔑 | | |
|  | setBalance | External ! | 🔴 | onlyOwner |
|  | process | Public ! | 🔴 | NO ! |
|  | processAccount | Public ! | 🔴 | onlyOwner |
|||||
| **T2DividendTracker** | Implementation | DividendPayingToken, Ownable |||
|  | <Constructor> | Public ! | 🔴 | DividendPayingToken |
|  | _transfer | Internal 🔒 | | |
|  | withdrawDividend | Public ! | | NO ! |
|  | setDividendTokenAddress | External ! | 🔴 | onlyOwner |
|  | updateMinimumTokenBalanceForDividends | External ! | 🔴 | onlyOwner |
|  | excludeFromDividends | External ! | 🔴 | onlyOwner |
|  | updateClaimWait | External ! | 🔴 | onlyOwner |
|  | getLastProcessedIndex | External ! | | NO ! |
|  | getNumberOfTokenHolders | External ! | | NO ! |
|  | getAccount | Public ! | | NO ! |
|  | getAccountAtIndex | Public ! | | NO ! |
|  | canAutoClaim | Private 🔑 | | |
|  | setBalance | External ! | 🔴 | onlyOwner |
|  | process | Public ! | 🔴 | NO ! |
|  | processAccount | Public ! | 🔴 | onlyOwner |

```

Audit Results

EtherCake does not contain any severe issues or risks. The security of the smart contract was tested by 0xSafe using static, automated, and manual analysis. The



AUDIT PASSED

Note:

Please check the disclaimer below and note the audit makes no statements or warranties on the business model, investment attractiveness, or code sustainability of this project. The security audit report is provided for the only contract mentioned in this report.

Disclaimer

0xSafe.io provides contract auditing, KYC, development, and launch services for blockchain projects. The purpose of the security audit is to analyze the on-chain smart contract source code and to provide an easy-to-understand assessment of the crypto project and the smart contract. **0xSafe.io provides information as is.**

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