

SKELETON ECOSYSTEM

SMART CONTRACT AUDIT



BULLISH TIGER

Bullish Tiger
Btiger
BEP20

0x6A6838B4D5d4D028D3875d607cDfc20Ee8ab



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Global Disclaimer

This document serves as a disclaimer for the crypto smart contract audit conducted by Skeleton Ecosystem. The purpose of the audit was to review the codebase of the smart contracts for potential vulnerabilities and issues. It is important to note the following:

Limited Scope: The audit is based on the code and information available up to the audit completion date. It does not cover external factors, system interactions, or changes made after the audit. The audit itself can not guarantee 100% safety and can not detect common scam methods like farming and developer sell-out.

No Guarantee of Security: While we have taken reasonable steps to identify vulnerabilities, it is impossible to guarantee the complete absence of security risks or issues. The audit report provides an assessment of the contract's security as of the audit date.

Continued Development: Smart contracts and blockchain technology are evolving fields. Updates, forks, or changes to the contract post-audit may introduce new risks that were not present during the audit.

Third-party Code: If the smart contract relies on third-party libraries or code, those components were not thoroughly audited unless explicitly stated. Security of these dependencies is the responsibility of their respective developers.

Non-Exhaustive Testing: The audit involved automated analysis, manual review, and testing under controlled conditions. It is possible that certain vulnerabilities or issues may not have been identified.

Risk Evaluation: The audit report includes a risk assessment for identified vulnerabilities. It is recommended that the development team carefully reviews and addresses these risks to mitigate potential exploits.

Not Financial Advice: This audit report is not intended as financial or investment advice. Decisions regarding the use, deployment, or investment in the smart contract should be made based on a comprehensive assessment of the associated risks.

By accessing and using this audit report, you acknowledge and agree to the limitations outlined above. Skeleton Ecosystem and its auditors shall not be held liable for any direct or indirect damages resulting from the use of the audit report or the smart contract itself.

Please consult with legal, technical, and financial professionals before making any decisions related to the smart contract.

Overview

Contract Name	Btiger
Ticker/Symbol	Btiger
Blockchain	Binance Smart Chain BEP20
Contract Address	0x6A6838B4D5d4D028D3875d607cDfc20Ee8abBF84
Creator Address	0x28478cf479a5c1d10021FF38637eCE905CA56546
Current Owner Address	0x00
Contract Explorer	https://bscscan.com/address/0x6a6838b4d5d4d028d3875d607cdfc20ee8abbf84#code
Compiler Version	v0.8.17+commit.8df45f5f
License	MIT
Optimisation	Yes with 200 Runs
Total Supply	996,935,671.277996 Btiger
Decimals	18

Creation/Audit

Contract Deployed	19.01.2024
Audit Created	09.02.2024
Audit Update	V 1.0

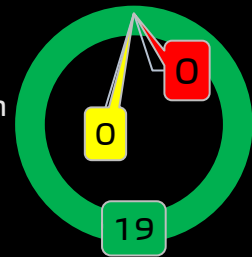
Verified Socials








Website	https://bullishtiger.com/
Telegram	http://t.me/bullishtigertoken
Twitter (X)	http://x.com/btigertoken











Contract Function Analysis

 Pass
  Attention Item
  Risky Item

■ Pass
 ■ Attention
 ■ Risk



Contract Verified		The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		0x00 Sometimes referred to as the "zero address" or "dead address" and is not owned by anyone.
Buy Tax	5 %	Shows the taxes for purchase transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Sell Tax	5 %	Shows the taxes for sell transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Honeypot Analyse		Holder is able to buy and sell. If honeypot: The contract blocks sell transfer from holder wallet. Multiple events may cause honeypot. Trading disabled, extremely high tax
Liquidity Status		Liquidity status on 08.02.2024 Lp Locked: 100% Pinklock for 358 days.
Trading Disable Functions		No Trading suspendable function found. If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced this function can't be used
Set Fees function		Fee Setting function found. Contract renounced, function can not be triggered by owner. The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).
Proxy Contract		Not a Proxy contract!
Mint Function		No Mint Function detected Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token. Owner can mint new tokens and sell.

Balance Modifier Function		<p>No Balance Modifier function found.</p> <p>If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other addresses. For example revoke the bought tokens from the holders wallet. Common form of scam: You buy the token, but it's disappearing from your wallet.</p>
Blacklist Function		<p>No Blacklist Setting function found.</p> <p>If there is a blacklist, some addresses may not be able to trade normally. Example: you buy the token and right after your Wallet getting blacklisted. Like so you will be unable to sell. Honeypot Risk.</p>
Whitelist Function		<p>Whitelist Setting function found. Contract renounced, function can not be triggered by owner.</p> <p>If there is a function for this Developer can set zero fee or no max wallet size for addresses (for example team wallets can trade without fee. Can cause farming)</p>
Hidden Owner Analysis		<p>No Hidden or multi owner with authorisation</p> <p>For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned.</p>
Retrieve Ownership Function		<p>No Functions found which can retrieve ownership of the contract.</p> <p>If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.</p>
Self Destruct Function		<p>No Self Destruct function found.</p> <p>If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.</p>
Specific Tax Changing Function		<p>No Specific Tax Changing Functions found.</p> <p>If it exists, the contract owner may set a very outrageous tax rate for assigned address to block it from trading. Can assign all wallets at once!</p>
Trading Cooldown Function		<p>Trading Cooldown Function found. Contract renounced, function can not be triggered by owner.</p> <p>If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a temporary honeypot.</p>
Max TXNS and Holding Modify Function		<p>Max Transaction and Holding Modify function found or maximum position can be modified. Can cause honeypot</p> <p>Contract renounced, function can not be triggered by owner.</p>
Transaction Limiting Function		<p>No Transaction Limiter Function Found.</p> <p>The number of overall token transactions may be limited (honeypot risk)</p>

Details of Risk - Attention Items

Removing Risk of contract function based on renounced ownership

Transaction Receipt Event Logs

120

Address

0x6a6838b4d5d4d028d3875d607cd0c20ee8abbf84

Name

OwnershipTransferred (index_topic_1 address previousOwner, index_topic_2 address newOwner) [View Source](#)

Topics

0

0x8be0079c531659141344cd1fd0a4f28419497f9722a3daafe3b4186f6b6457e0

1: previousOwner

Dec

→ 0x28478cf479a5c1d10021ff38637eCE905CA56546

2: newOwner

Dec

→ 0x00

Data

0x

Following detected contract functions serve as informational purposes about the contract. The owner has no more authorisation to trigger the following functions.

⚠ Set Fee 12% Max

Contract renounced, function can not be triggered by owner.

The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).

```

1291   function updateFees(
1292       uint256 deadBuy!,
1293       uint256 deadSell!,
1294       uint256 marketingBuy!,
1295       uint256 marketingSell!,
1296       uint256 liquidityBuy!,
1297       uint256 liquiditySell!,
1298       uint256 RewardsBuy!,
1299       uint256 RewardsSell!,
1300       uint256 devBuy!,
1301       uint256 devSell!
1302   ) public onlyOwner {
1303       buyDeadFees = deadBuy!;
1304       buyMarketingFees = marketingBuy!;
1305       buyLiquidityFee = liquidityBuy!;
1306       buyRewardsFee = RewardsBuy!;
1307       sellDeadFees = deadSell!;
1308       sellMarketingFees = marketingSell!;
1309       sellLiquidityFee = liquiditySell!;
1310       sellRewardsFee = RewardsSell!;
1311       buyDevFee = devBuy!;
1312       sellDevFee = devSell!;
1313
1314       totalSellFees = sellRewardsFee
1315           .add(sellLiquidityFee)
1316           .add(sellMarketingFees)
1317           .add(sellDevFee);
1318
1319       totalBuyFees = buyRewardsFee
1320           .add(buyLiquidityFee)
1321           .add(buyMarketingFees)
1322           .add(buyDevFee);
1323
1324       require(totalSellFees <= 6 && totalBuyFees <= 6, "total fees cannot exceed 12% sell or buy");
1325   }
  
```

⚠ Whitelist

Contract renounced, function can not be triggered by owner.

If there is a function for this Developer can set zero fee or no max wallet size for addresses (for example team wallets can trade without fee. Can cause farming)

```

1164
1165     // exclude a wallet from fees
    ftrace | funcSig
1166     function setExcludeFees(address account!, bool excluded!) public onlyOwner {
1167         | _isExcludedFromFees[account!] = excluded!;
1168         | emit ExcludeFromFees(account!, excluded!);
1169     }
1170
  
```

```

1351
    ftrace | funcSig
1352     function isExcludedFromFees(address account!) public view returns (bool) {
1353         | return _isExcludedFromFees[account!];
1354     }
1355
    ftrace | funcSig
  
```

⚠ Max Transaction and Holding Modify Function

Contract renounced, function can not be triggered by owner.

If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot

```

1207     // set max wallet, can not be lower than 0.05% of supply
    ftrace | funcSig
1208     function setmaxWallet(uint256 value!) external onlyOwner {
1209         | value! = value! * (10**18);
1210         | require(value! >= _totalSupply / 1000, "max wallet cannot be set to less than 0.1%");
1211         | maxWallet = value!;
1212     }
1213
1214
  
```

⚠ Tradin Cooldown Function

Contract renounced, function can not be triggered by owner.

If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a temporary honeypot.

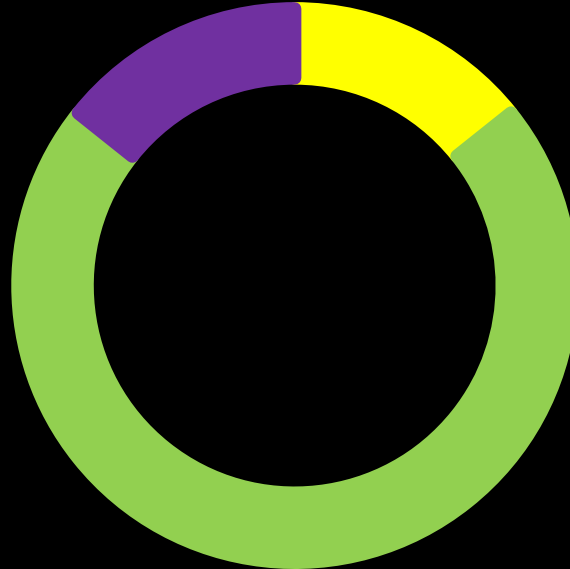
```

1200
1201     // set cooldown timer, can only be between 0 and 60 seconds (1 mins max)
    ftrace | funcSig
1202     function setcooldowntimer(uint256 value!) external onlyOwner {
1203         | require(value! <= 0, "cooldown timer cannot exceed 0 minutes");
1204         | cooldowntimer = value!;
1205     }
1206
  
```


Contract Security

Total Findings: 7

- High 0
- Medium 1
- Low 5
- Info 1



■ **High Severity Issues:** High possibility to cause problems, need to be resolved.

■ **Medium Severity Issue:** Will likely cause problems, recommended to resolve.

■ **Low Severity Issues:** Won't cause problems, but for improvement purposes could be adjusted.

■ **Informational Severity Issues:** Not harmful in any way, information for the developer team.

Contract Security

List of Found Issues

High severity Issues: (0)

Medium severity issues: (1)

- Usage of tx.origin

Low severity issues: (5)

- Missing Events
- Long number literals
- Low level calls
- Approve of front running attack (Sandwich bots)
- Outdated Compiler Version

Informational severity issues: (1)

- Public Functions Should be Declared External

Contract Weakness Classification

THE SMART CONTRACT WEAKNESS CLASSIFICATION REGISTRY (SWC REGISTRY) IS AN IMPLEMENTATION OF THE WEAKNESS CLASSIFICATION SCHEME PROPOSED IN EIP-1470. IT IS LOOSELY ALIGNED TO THE TERMINOLOGIES AND STRUCTURE USED IN THE COMMON WEAKNESS ENUMERATION (CWE) WHILE OVERLAYING A WIDE RANGE OF WEAKNESS VARIANTS THAT ARE

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

SWC-121	Missing Protection against Signature Replay Attacks	Passed	Passed	Passed
SWC-122	Lack of Proper Signature Verification	Passed	Passed	Passed
SWC-123	Requirement Violation	Passed	Passed	Passed
SWC-124	Write to Arbitrary Storage Location	Passed	Passed	Passed
SWC-125	Incorrect Inheritance Order	Passed	Passed	Passed
SWC-126	Insufficient Gas Griefing	Passed	Passed	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed	Passed	Passed
SWC-128	DoS With Block Gas Limit	Passed	Passed	Passed
SWC-129	Typographical Error	low	Passed	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed	Passed	Passed
SWC-131	Presence of unused variables	Passed	Passed	Passed
SWC-132	Unexpected Ether balance	Passed	Passed	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed	Passed	Passed
SWC-134	Message call with hardcoded gas amount	Passed	Passed	Passed
SWC-135	Code With No Effects	Passed	Passed	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed	Passed	Passed

Detected High and Medium Severity Vulnerability Description.

⚠ Usage of tx.origin (6 Items)

Item: 1	Location:	Line 1414	Severity:	Medium
Item: 2	Location:	Line 1513	Severity:	Medium
Item: 3	Location:	Line 1515	Severity:	Medium
Item: 4	Location:	Line 1529	Severity:	Medium
Item: 5	Location:	Line 1530	Severity:	Medium
Item: 6	Location:	Line 1610	Severity:	Medium

Function	In Solidity, tx.origin is a global variable that returns the address of the account that sent the transaction. Using the variable for authorization could make a contract vulnerable. For example, if an authorized account calls a malicious contract which triggers it to call the vulnerable contract that passes an authorization check since tx.origin returns the original sender of the transaction which in this case is the authorized account.
Remediation	tx.origin should not be used for authorization in smart contracts. It does have some legitimate use cases, for example, To prevent external contracts from calling the current contract, you can implement a require of the form require(tx.origin == msg.sender). This prevents intermediate contracts from calling the current contract, thus limiting the contract to regular codeless addresses.

⚠️ Approve of front running attack (2 Items)

Item: 1	Location:	Line 260-268	Severity:	Low
---------	-----------	--------------	-----------	-----

Function	<p>The <code>approve()</code> method overrides current allowance regardless of whether the spender already used it or not, so there is no way to increase or decrease allowance by a certain value atomically unless the token owner is a smart contract, not an account. This can be abused by a token receiver when they try to withdraw certain tokens from the sender's account.</p> <p>Meanwhile, if the sender decides to change the amount and sends another approve transaction, the receiver can notice this transaction before it's mined and can extract tokens from both the transactions, therefore, ending up with tokens from both the transactions. This is a front-running attack affecting the ERC20 Approve function.</p> <p>The function approve can be front-run by abusing the <code>_approve</code> function.</p>
Remedation	<ol style="list-style-type: none"> 1. Introduce mechanisms that limit the maximum acceptable gas price for transactions. This can help prevent front-runners from drastically increasing the gas fees to prioritize their transactions. 2. Use transaction taxes to prevent against front-run attack

```

260  ftrace | funcSig
261  function approve(address spender!, uint256 amount!)
262      public
263      virtual
264      override
265      returns (bool)
266  {
267      _approve(_msgSender(), spender!, amount!);
268      return true;
269  }
  
```

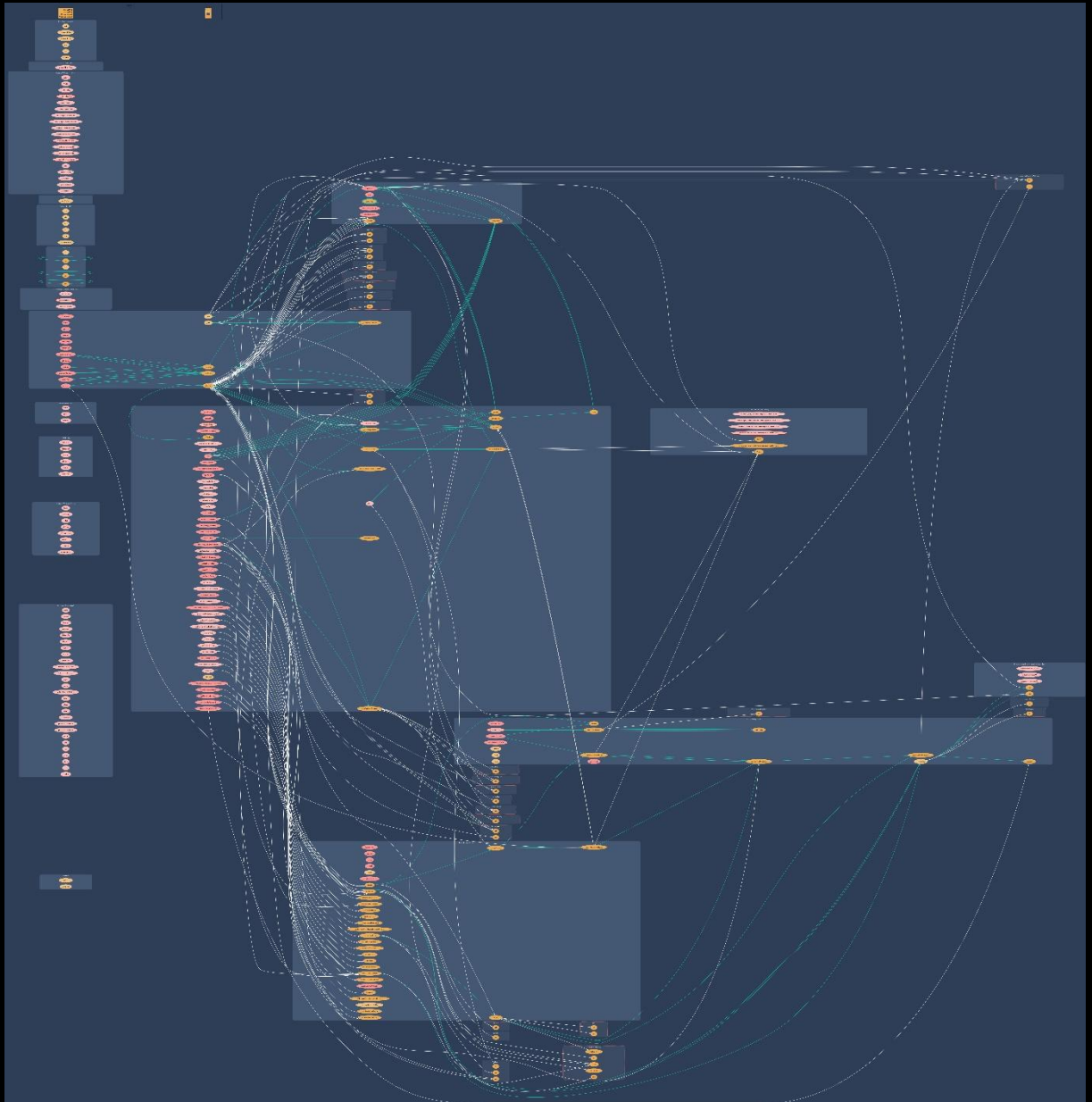
Item: 2	Location:	Line 270-285	Severity:	■ Low
---------	-----------	--------------	-----------	--

Function	<p>The transferFrom() method overrides current allowance regardless of whether the spender already used it or not, so there is no way to increase or decrease allowance by a certain value atomically unless the token owner is a smart contract, not an account.</p> <p>This can be abused by a token receiver when they try to withdraw certain tokens from the sender's account.</p> <p>Meanwhile, if the sender decides to change the amount and sends another approve transaction, the receiver can notice this transaction before it's mined and can extract tokens from both the transactions, therefore, ending up with tokens from both the transactions. This is a front-running attack affecting the ERC20 Approve function.</p> <p>The function approve can be front-run by abusing the <code>_approve</code> function.</p>
Remedation	<ol style="list-style-type: none"> 1. Introduce mechanisms that limit the maximum acceptable gas price for transactions. This can help prevent front-runners from drastically increasing the gas fees to prioritize their transactions. 2. Use transaction taxes to prevent against front-run attack

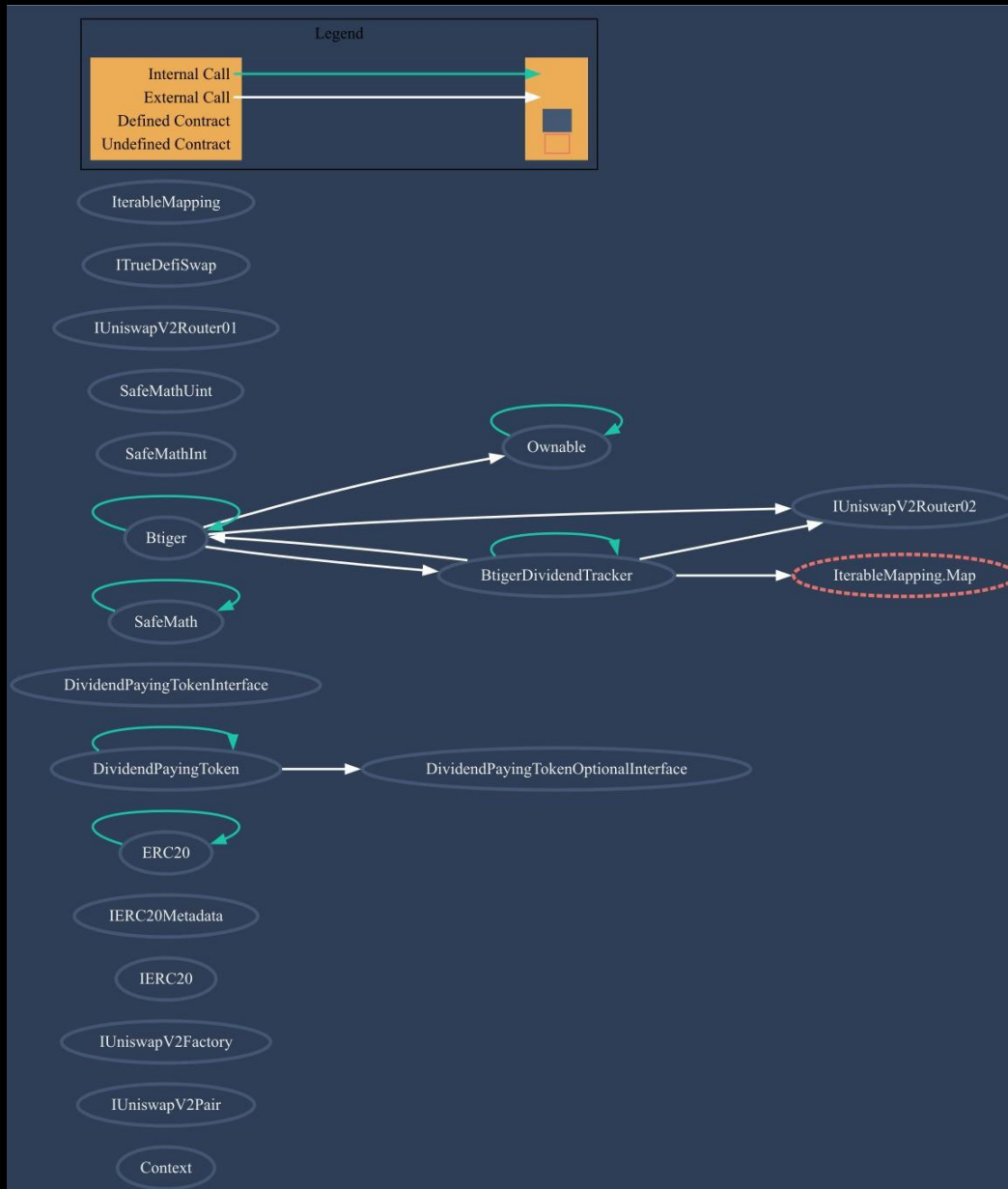
```

270  ftrace | funcSig
271  function transferFrom(
272      address sender!,
273      address recipient!,
274      uint256 amount!
275  ) public virtual override returns (bool) {
276      _transfer(sender!, recipient!, amount!);
277      _approve(
278          sender!,
279          _msgSender(),
280          allowances[sender!][_msgSender()].sub(
281              amount!,
282              "ERC20: transfer amount exceeds allowance"
283          );
284      return true;
285  }
286
  
```

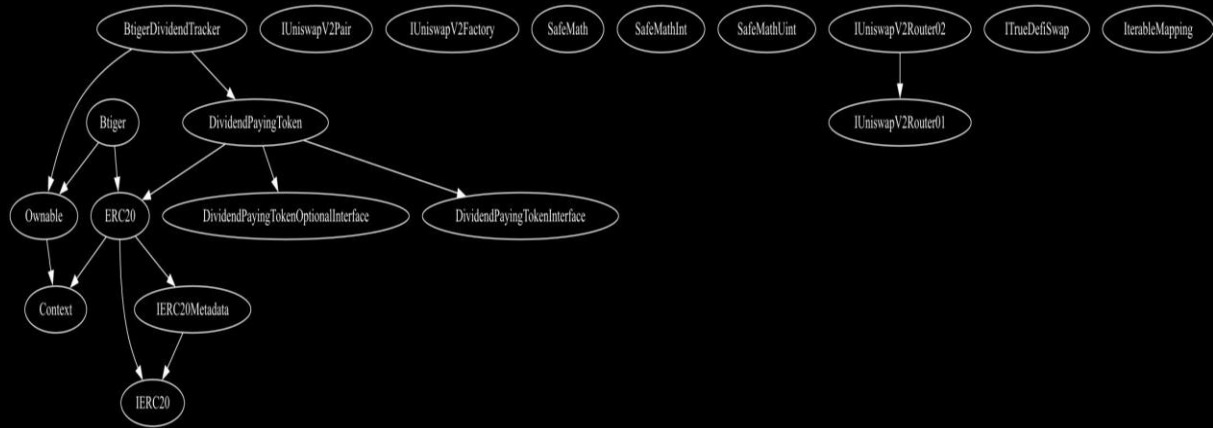
Contract Flow Graph



































Contract Interaction Graph










Inheritance Graph





















































Contract Functions




































Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
IUniswapV2Pair	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 









Contract	Type	Bases		
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	mint	External !		NO !
L	burn	External !		NO !
L	swap	External !		NO !
L	skim	External !		NO !
L	sync	External !		NO !
L	initialize	External !		NO !
IUniswapV2Factory	Interface			
L	feeTo	External !		NO !
L	feeToSetter	External !		NO !
L	getPair	External !		NO !
L	allPairs	External !		NO !
L	allPairsLength	External !		NO !















Contract	Type	Bases		
L	createPair	External !		NO !
L	setFeeTo	External !		NO !
L	setFeeToSetter	External !		NO !
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 !
IERC20Metadata	Interface	IERC20		
L	name	External !		NO !
L	symbol	External !		NO !
L	decimals	External !		NO !
ERC20	Implementation	Context, IERC20, IERC20Metadata		
L		Public !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
















Contract	Type	Bases		
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	_transfer	Internal 		
L	_mint	Internal 		
L	_burn	Internal 		
L	_approve	Internal 		
L	_beforeTokenTransfer	Internal 		
DividendPayingTokenOptionallInterface	Interface			
L	withdrawableDividendOf	External 		NO 
L	withdrawnDividendOf	External 		NO 
L	accumulativeDividendOf	External 		NO 
DividendPayingTokenInterface	Interface			













Contract	Type	Bases		
L	dividendOf	External !		NO!
L	distributeDividends	External !		NO!
L	withdrawDividend	External !		NO!
SafeMath	Library			
L	add	Internal 		
L	sub	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	mod	Internal 		
Ownable	Implementation	Context		
L		Public !		NO!
L	owner	Public !		NO!
L	renounceOwnership	Public !		onlyOwner
L	transferOwnership	Public !		onlyOwner
SafeMathInt	Library			
L	mul	Internal 		
L	div	Internal 		






Contract	Type	Bases		
L	sub	Internal 		
L	add	Internal 		
L	abs	Internal 		
L	toUint256Safe	Internal 		
SafeMathUint	Library			
L	toInt256Safe	Internal 		
IUniswapV2Router01	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 
L	swapExactETHForTokens	External 		NO 

Contract	Type	Bases		
L	swapTokensForExactETH	External !		NO!
L	swapExactTokensForETH	External !		NO!
L	swapETHForExactTokens	External !		NO!
L	quote	External !		NO!
L	getAmountOut	External !		NO!
L	getAmountIn	External !		NO!
L	getAmountsOut	External !		NO!
L	getAmountsIn	External !		NO!
IUniswapV2Router02	Interface	IUniswapV2Router01		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO!
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO!
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO!
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO!
L	swapExactTokensForETHSup	External !		NO!





Contract	Type	Bases		
	portingFeeOnTransferTokens			
DividendPayinToken	Implementation	ERC20, DividendPayinTokenInterface, DividendPayinTokenOptionalInterface		
L		Public !		ERC20
L		External !		NO !
L	distributeDividends	Public !		NO !
L	withdrawDividend	Public !		NO !
L	_withdrawDividendOfUser	Internal 		
L	dividendOf	Public !		NO !
L	withdrawableDividendOf	Public !		NO !
L	withdrawnDividendOf	Public !		NO !
L	accumulativeDividendOf	Public !		NO !
L	_transfer	Internal 		
L	_mint	Internal 		
L	_burn	Internal 		
L	_setBalance	Internal 		
ITrueDefiSwap	Interface			

Contract	Type	Bases		
L	triggeredTokenSent	External !		NO!
Btiger	Implementation	ERC20, Ownable		
L		Public !		ERC20
L	decimals	Public !		NO!
L		External !		NO!
L	updateStakingAmounts	Public !		onlyOwner
L	isTrading	Internal 		
L	setWhitelistForPublicTrade	External !		onlyOwner
L	setPublicTrading	External !		onlyOwner
L	setPresaleWallet	External !		onlyOwner
L	setExcludeFees	Public !		onlyOwner
L	setExcludeDividends	Public !		onlyOwner
L	setIncludeDividends	Public !		onlyOwner
L	setCanTransferBefore	External !		onlyOwner
L	setLimitsInEffect	External !		onlyOwner
L	setGasPriceLimit	External !		onlyOwner
L	setcooldowntimer	External !		onlyOwner

Contract	Type	Bases		
L	setMaxWallet	External !		onlyOwner
L	enableStaking	Public !		onlyOwner
L	stake	Public !		NO!
L	setSwapTriggerAmount	Public !		onlyOwner
L	enableSwapAndLiquify	Public !		onlyOwner
L	setAutomatedMarketMakerPair	Public !		onlyOwner
L	setAllowCustomTokens	Public !		onlyOwner
L	setAllowAutoReinvest	Public !		onlyOwner
L	_setAutomatedMarketMakerPair	Private 🔒		
L	updateGasForProcessing	Public !		onlyOwner
L	transferAdmin	Public !		onlyOwner
L	updateTransferFee	Public !		onlyOwner
L	updateFees	Public !		onlyOwner
L	getStakingInfo	External !		NO!
L	getTotalDividendsDistributed	External !		NO!
L	isExcludedFromFees	Public !		NO!
L	withdrawableDividendOf	Public !		NO!

Contract	Type	Bases		
L	dividendToken BalanceOf	Public !		NO !
L	getAccountDiv idendsInfo	External !		NO !
L	getAccountDiv idendsInfoAtIn dex	External !		NO !
L	processDivide ndTracker	External !		NO !
L	claim	External !		NO !
L	getLastProces sedIndex	External !		NO !
L	getNumberOf DividendToken Holders	External !		NO !
L	setAutoClaim	External !		NO !
L	setReinvest	External !		NO !
L	setDividendsP aused	External !		onlyOwner
L	isExcludedFro mAutoClaim	External !		NO !
L	isReinvest	External !		NO !
L	_transfer	Internal 		
L	getStakingBal ance	Private 		
L	swapAndLiqui fy	Private 		
L	swapTokensFo rEth	Private 		
L	updatePayout Token	Public !		onlyOwner

Contract	Type	Bases		
L	getPayoutToken	Public !		NO !
L	setMinimumTokenBalanceForAutoDividends	Public !	⦿	onlyOwner
L	setMinimumTokenBalanceForDividends	Public !	⦿	onlyOwner
L	addLiquidity	Private 🔒	⦿	
L	forceSwapAndSendDividends	Public !	⦿	onlyOwner
L	swapAndSendDividends	Private 🔒	⦿	
L	airdropToWallets	External !	⦿	onlyOwner
BtigerDividendTracker	Implementation	DividendPayingToken, Ownable		
L		Public !	⦿	DividendPayingToken
L	decimals	Public !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	_transfer	Internal 🔒		
L	withdrawDividend	Public !		NO !
L	isExcludedFromAutoClaim	External !		onlyOwner
L	isReinvest	External !		onlyOwner

Contract	Type	Bases		
L	setAllowCustomTokens	External !		onlyOwner
L	setAllowAutoReinvest	External !		onlyOwner
L	excludeFromDividends	External !		onlyOwner
L	includeFromDividends	External !		onlyOwner
L	setAutoClaim	External !		onlyOwner
L	setReinvest	External !		onlyOwner
L	setMinimumTokenBalanceForAutoDividends	External !		onlyOwner
L	setMinimumTokenBalanceForDividends	External !		onlyOwner
L	setDividendsPaused	External !		onlyOwner
L	getLastProcessedIndex	External !		NO!
L	getNumberOfTokenHolders	External !		NO!
L	getAccount	Public !		NO!
L	getAccountAtIndex	Public !		NO!
L	setBalance	External !		onlyOwner
L	process	Public !		NO!
L	processAccount	Public !		onlyOwner

Contract	Type	Bases		
L	updateUniswapV2Router	Public 		onlyOwner
L	updatePayoutToken	Public 		onlyOwner
L	getPayoutToken	Public 		NO 
L	_reinvestDividendOfUser	Private 		
L	_withdrawDividendOfUser	Internal 		
IterableMapping	Library			
L	get	Internal 		
L	getIndexOfKey	Internal 		
L	getKeyAtIndex	Internal 		
L	size	Internal 		
L	set	Internal 		
L	remove	Internal 		



Function
can modify
state



Function
is payable

Audit Scope

Audit Method.

Our smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. Goal: discover errors, issues and security vulnerabilities in the code. Findings getting reported and improvements getting suggested.

Automatic and Manual Review

We are using automated tools to scan functions and weaknesses of the contract. Transfers, integer over-undeflow checks such as all CWE events.

Tools we use:

Visual Studio Code

CWE

SWC

Solidity Scan

SVD

In manual code review our auditor looking at source code and performing line by line examination. This method helps to clarify developer's coding decisions and business logic.

Skeleton Ecosystem

<https://skeletonecosystem.com>

<https://github.com/SkeletonEcosystem/Audits>

