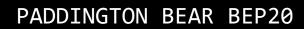
# SKELETONECOSYSTEM SMART CONTRACT AUDIT



# Paddington Bear [\$PBEAR] BEP 20

0x752B0725039c4B3c30aC6a476C2D405A2b32E91e







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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% safaty 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 postaudit 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	PaddingtonBear
Ticker/Simbol	\$PBEAR
Blockchain	Binance Smart Chain BEP20
Contract Address	0x752B0725039c4B3c30aC6a476C2D405A2b32E91e
Creator Address	0x6D7E2d66d0Af622B9d7ffC3fa3a5eb5585DC9dD1
Current Owner Address	Renounced
Contract Explorer	https://bscscan.com/address/0x752b0725039c4b3c30a c6a476c2d405a2b32e91e
Compiler Version	v0.8.18+commit.87f61d96
License	Unlicense
Optimisation	Yes with 200 Runs
Total Supply	1,000,000,000 \$PBEAR
Decimals	18

# Creation/Audit

Contract Deployed	18 Oct 2023
Audit Created	24 Oct 2023
Audit Update	V 1.0

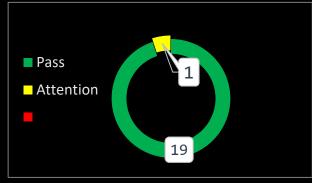
# Verified Socials

Website	
Telegram	https://t.me/PADDINGTON_BEAR_COIN
Twitter (X)	https://x.com/pbear_bsc

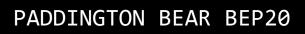
# Contract Function Analysis

Pass Attention Item Alsky Item





<b>✓</b>	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.		
<b>✓</b>	Renounced		
8 %	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!		
8 %	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!		
<b>&gt;</b>	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		
A	LP Lock Status on 24.10.2023:		
	52% Burned 47% Locked Pinksale 14 Days		
A	Trading suspendable function found. Contract renounced. Function can not be used		
	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		
	Fee Setting function found. Contract renounced. Function can not be used		
A	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).		
<b>✓</b>	Not a proxy contract!		
_	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.		
	8 % 8 %		





Balance	<b>✓</b>	No Balance Modifier function found.
Modifier Function		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.
Blacklist	<b>✓</b>	No Blacklist Setting function
Function		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.
Whitelist Function	A	Whitelist Setting function found but Contract. Contract renounced. Function can not be used
		If there is a function for this Developer can set zero fee or no max wallet size for adresses (for example team wallets can trade without fee. Can cause farming)
Hidden		No Whitelist
Owner Analysis	<b>&gt;</b>	For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned. Fake renounce.
Retrieve Ownership	<b>✓</b>	No functions found which can retrieve ownership of the contract.
Function		If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.
Self	<b>✓</b>	No Self Destruct function found.
Destruct Function		If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.
Specific		No Specific Tax Changing Functions found.
Tax Changing Function		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!
Trading Cooldown Function	<b>✓</b>	No Trading Cooldown Function found. 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.
Max	A	Max Transaction and Holding Modify function found. Contract
Transaction and Holding Modify Function		renounced. Function can not be used  If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot
Transaction	<b>/</b>	No Transaction Limiter Function Found.
Limiting Function		The number of overall token transactions may be limited (honeypot risk)



#### Details of Risk - Attention Items



Set Fee. Risk removed. Contract Renounced!



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

```
uint256 private _tax;
uint256 public buyTax = 20;
uint256 public sellTax = 20;
```



## Whitelist Risk removed. Contract Renounced! 🗹



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

```
_isExcludedFromFeeWallet[msg.sender] = true;
 120
               _isExcludedFromFeeWallet[0x6D7E2d66d0Af622B9d7ffC3fa3a5eb5585DC9dD1] = true;
              _isExcludedFromFeeWallet[address(this)] = true;
           function addExcludedWallet(address wallet) external onlyOwner {
179
                _isExcludedFromFeeWallet[wallet†] = true;
```

Max Transaction and Holding Modify Function

Risk removed. Contract Renounced!



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

```
uint8 private constant _decimals = 18;
uint256 private constant _totalSupply = 10**9 * 10**_decimals;
uint256 private constant minSwap = 3000 * 10**_decimals; //0.03% from supply
uint256 private constant maxSwap = 100000000 * 10**_decimals; //1% from supply
uint256 public maxTxAmount = maxSwap * 1; //max Tx for first mins after launch
```



# ⚠ Trading Disable Function

Risk removed. Contract Renounced!



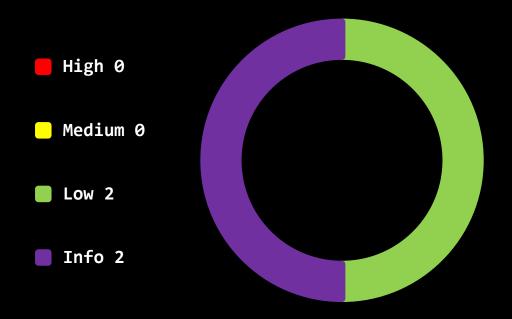
If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced this function can't be used

```
ftrace | funcSig
           function enableTrading() external onlyOwner {
174
               launch = true;
               launchBlock = block.number;
```



### Contract Security

Total Findings: 5



- **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 Weakness Classisication

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 SPECIFIC TO SMART CONTRACTS.

- High severity Issues: (0)
- Medium severity issues: (0)
- Low severity issues: (2)
  - Missing Events
  - Long Number Literals
- Informational severity issues: (2)
  - Hard Coded Address
  - Public Functions Should be Declared External



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	Passed	Passed	Passed
SWC-103	Floating Pragma	Passed	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	Medium	Passed	Passed
SWC-114	Transaction Order Dependence	Passed	Passed	Passed
SWC-115	Authorization through tx.origin	Passed	Passed	Passed
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

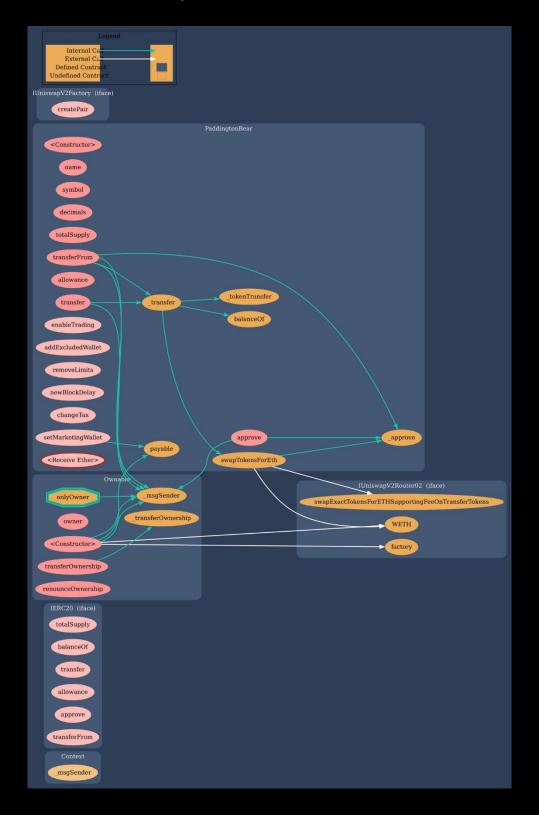


Detected High and Medium Severity Vulnerability Description.

☑ No High - Medium Severity Issues found

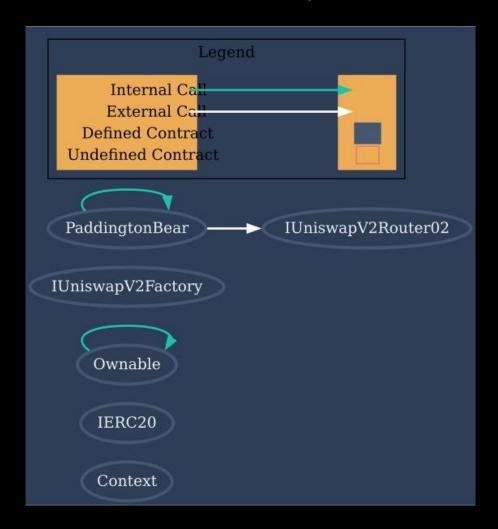


## Contract Flow Graph



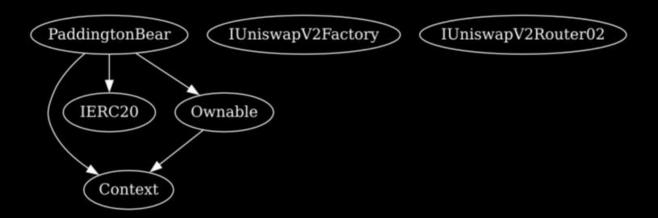


## Contract Interaction Graph





## Inheritance Graph





## **Contract Functions**

Contract	Туре	Bases		
٦	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 🖺		
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
Ownable	Implementation	Context		
L		Public 🌡		NO[
L	owner	Public 🌡		NO
L	transferOwners hip	Public 🌡		onlyOwner
L	_transferOwners hip	Internal 🖺		
L	renounceOwner ship	Public [		onlyOwner
IUniswapV2Fac tory	Interface			
L	createPair	External 🌡		NO[



Contract	Туре	Bases		
IUniswapV2Ro uter02	Interface			
L	swapExactToke nsForETHSuppo rtingFeeOnTran sferTokens	External 🌡		NO[
L	factory	External 🌡		NOÏ
L	WETH	External 🌡		NOÏ
PaddingtonBe ar	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 🌡		NOI
L	_approve	Private 🖺		
L	enableTrading	External [		onlyOwner
L	addExcludedWa llet	External 🌡		onlyOwner
L	removeLimits	External 🌡		onlyOwner

Contract	Туре		Bases	
L	newBlockDelay	External 🌡		onlyOwner
L	changeTax	External 🌡		onlyOwner
L	setMarketingW allet	External 🌡		onlyOwner
L	_tokenTransfer	Private 🖺		
L	_transfer	Private 🖺		
L	swapTokensFor Eth	Private 🖺		
L		External 🌡	<u>a'b</u>	NO[

Function can modify state Function



#### 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 vulnaribilities in the code. Findings getting reported and improvements getting suggested.

#### **Automatic and Manual Review**

We are using automated tools to scan functions and weeknesses 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

