



0x1F96FE0eA5E312EDCdD3b9295E0f3E3165bd9C22



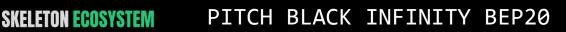




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Global Disclaimer

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 <u>responsibility of their respective developers</u>.

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	PitchBlackInfinity
Ticker/Simbol	Infinity
Blockchain	Binance Smart Chain BEP20
Contract Address	0x1F96FE0eA5E312EDCdD3b9295E0f3E3165bd9C22
Creator Address	0xC1Ad3bDb9C075d3d620CE517fC8EeAB41F80f9Bc
Current Owner Address	Renounced 0x00000000000000000000000000000000000
Contract Explorer	https://bscscan.com/token/0x1f96fe0ea5e312edcdd3b 9295e0f3e3165bd9c22#code
Compiler Version	v0.8.19+commit.7dd6d404
License	MIT
Optimisation	Yes with 5000 Runs
Total Supply	400,000 Infinity
Decimals	9

Creation/Audit

Contract Deployed	09 Nov 2023
Audit Created	22 Nov 2023
Audit Update	V 1.0

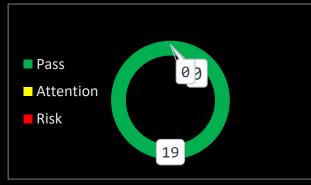
Verified Socials

Website	https://pitchblackinfinity.online/
Telegram	https://t.me/PitchBlackInfinity
Twitter (X)	https://x.com/PitchBlackMain

Contract Function Analysis

Pass Attention Item A Risky Item





Contract Verified	✓	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		Renounced 0x00000000000000000000000000000000000
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
Liqudity Status	✓	LP Lock Status on 21.11.2023: 81.46% Mudra Locker for 356 days. Lp Burned: 17.94%
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		No Fee Setting function found
function	✓	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	✓	No Balance Modifier function found. If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other
1 0.110 02011		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	✓	No Blacklist Setting function found.
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	✓	No Whitelist Setting function found.
		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 Hidden or multi owner with authorisation
Owner Analysis	✓	For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned.
Retrieve Ownership Function	>	No Functions found which can retrieve ownership of the contract.
		If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.
Self	✓	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	✓	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 Transaction	A	Max Transaction and Holding Modify function found, but contract is renounces, this function can not be used.
and Holding Modify Function		If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot
Transaction	✓	No Transaction Limiter Function Found.
Limiting Function		The number of overall token transactions may be limited (honeypot risk)





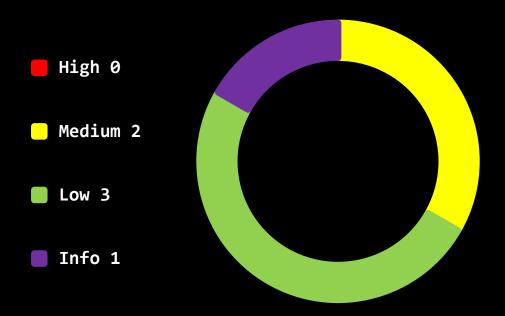
Details of Risk - Attention Items

✓ No Risk Function Item found



Contract Security

Total Findings: 6



- **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: (2)
 - Incorrect Acces Control
 - unchecked Array Lenght
- Low severity issues: (3)
 - Missing Events
 - Long Number Literals
 - Floating Pragma
- Informational severity issues: (1)
 - Public Functions Should be Declared External



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.

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	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	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	Passed	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.

Incorrect Acces Control (2 Item)

Medium	Item: 1	Location:	Line 219-224	Severity:	Medium
--------	---------	-----------	--------------	-----------	--------

F	Assess control place on important policies commentions of
Function	Access control plays an important role in segregation of
	privileges in smart contracts and other applications. If
	this is misconfigured or not properly validated on
	sensitive functions, it may lead to loss of funds,
	tokens and in some cases compromise of the smart
	contract.
	The contract NetherDretecel is importing an access
	The contract NetronProtocol is importing an access
	control library
	@openzeppelin/contracts/access/Ownable.sol but the
	function transfer is missing the modifier onlyOwner.
Remedation	It is recommended to go through the contract and observe
	the functions that are lacking an access control
	S
	modifier. If they contain sensitive administrative
	actions, it is advised to add a suitable modifier to the
	same

```
ftrace | funcSig
function transfer(address recipient), uint256 amount() public override returns (bool) {
    _transfer(_msgSender(), recipient1, amount1);
```



Item: 2	Location:	Line 228-233	Severity:	Medium
---------	-----------	--------------	-----------	--------

Function	The contract NetronProtocol is importing an access
FullCtion	. 3
	control library
	<pre>@openzeppelin/contracts/access/Ownable.sol but the</pre>
	function approve is missing the modifier onlyOwner.
Remedation	It is recommended to go through the contract and observe
	the functions that are lacking an access control
	modifier. If they contain sensitive administrative
	actions, it is advised to add a suitable modifier to the
	same

```
ftrace | funcSig
function approve(address spender1, uint256 amount1) public override returns (bool) {
   _approve(_msgSender(), spender1, amount1);
```



⚠ Unchecked Array Lenght (1 Item)

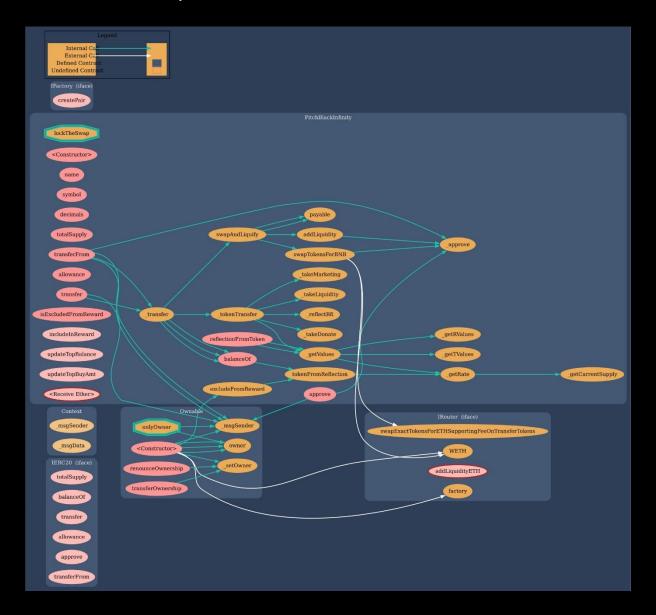
Item: 1	Location:	Line 276-276	Severity:		Medium
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Function	thereum is a very resource-constrained environment. Prices per computational step are orders of magnitude higher than with centralized providers. Moreover, Ethereum miners impose a limit on the total number of Gas consumed in a block. If array.length is large enough, the function exceeds the block gas limit, and transactions calling it will never be confirmed. for (uint256 i = 0; i < array.length; i++) { cosltyFunc(); }
	This becomes a security issue if an external actor influences array.length. E.g., if an array enumerates all registered addresses, an adversary can register many addresses, causing the problem described above.
Remedation	Either explicitly or just due to normal operation, the number of iterations in a loop can grow beyond the block gas limit, which can cause the complete contract to be stalled at a certain point. Therefore, loops with a bigger or unknown number of steps should always be avoided.

```
require(_isExcluded[account1], "Account is not excluded");
              for (uint256 i = 0; i < _excluded.length; i++) {
276
                  if ( excluded[i] == account() {
```

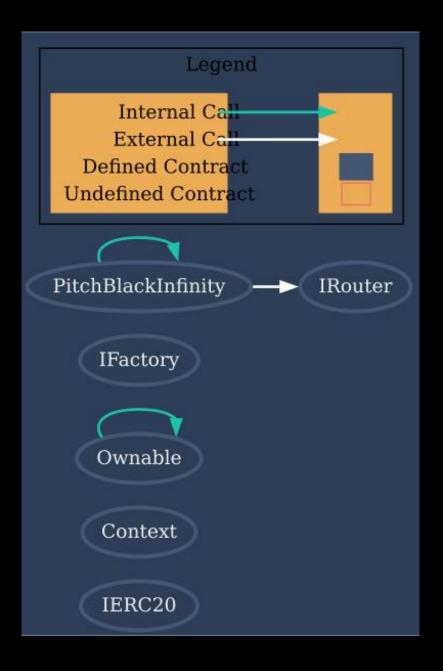


Contract Flow Graph



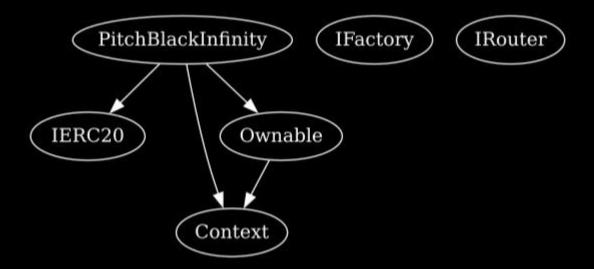


Contract Interaction Graph





Inheritance Graph





Contract Functions

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
L	totalSupply	External 🏻		NO
L	balanceOf	External 🏻		NO[
L	transfer	External 🏻		NOÏ
L	allowance	External 🏻		NOÏ
L	approve	External 🏻		NO
L	transferFrom	External 🏻		МО[
Context	Implementation			
L	_msgSender	Internal 🖺		
L	_msgData	Internal 🖺		
Ownable	Implementation	Context		
L		Public 🌡		NO
L	owner	Public 🌡		NO
L	renounceOwner ship	Public 🌡		onlyOwner
L	transferOwners hip	Public 🌡		onlyOwner
L	_setOwner	Private 🖺		
IFactory	Interface			



Contract	Туре	Bases		
L	createPair	External 🌡		NO[
IRouter	Interface			
L	factory	External 🌡		NO
L	WETH	External 🌡		NOÏ
L	addLiquidityETH	External 🌡	QD	NO
١	swapExactToke nsForETHSuppo rtingFeeOnTran sferTokens	External 🌡		NO[
PitchBlackInfin ity	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 🌡		ио[
L	allowance	Public 🌡		NOÏ
L	approve	Public 🌡		NOÏ
L	transferFrom	Public 🌡		NOÏ
L	isExcludedFrom Reward	Public 🌡		NO[
L	reflectionFromT oken	Public 🌡		NO[



Contract	Туре	Bases			
L	tokenFromRefle ction	Private 🖺			
L	excludeFromRe ward	Public 🏻		onlyOwner	
L	includeInRewar d	External 🏻		onlyOwner	
L	_reflectRfi	Private 🖺			
L	_takeLiquidity	Private 🖺			
L	_takeMarketing	Private 🖺			
L	_takeDonate	Private 🖺			
L	_getValues	Private 🖺			
L	_getTValues	Private 🖺			
L	_getRValues	Private 🖺			
L	_getRate	Private 🖺			
L	_getCurrentSup ply	Private 🖺			
L	_approve	Private 🖺			
L	_transfer	Private 🖺			
L	_tokenTransfer	Private 🖺			
L	swapAndLiquify	Private 🖺		lockTheSwap	
L	addLiquidity	Private 🖺			
L	swapTokensFor BNB	Private 🖺			
L	update Top Bala nce	External 🌡		onlyOwner	



Contract	Туре	Bases		
L	updateTopBuyA mt	External 🌡		onlyOwner
L		External 🌡	<u>ab</u>	NO[

Function Function can modify is payable state



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

