

CFG NINJA AUDITS

Security Assessment

PawStars Token

November 13, 2023

Audit Status: Pass

Audit Edition: Standard



3LADE POOL



Risk Analysis

Classifications of Manual Risk Results

Classification	Description	
○ Critical	Danger or Potential Problems.	
High	Be Careful or Fail test.	
Low	Pass, Not-Detected or Safe Item.	
■ Informational	Function Detected	

Manual Code Review Risk Results

Contract Priviledge	Description
Buy Tax	5.5%
Sale Tax	5.5%
Cannot Sale	Pass
Cannot Sale	Pass
Max Tax	10%
■ Modify Tax	Yes
Fee Check	Pass
■ Is Honeypot?	Not Detected
Trading Cooldown	Not Detected
Can Pause Trade?	Pass





Contract Priviledge	Description	
Pause Transfer?	Detected, Owner need to enable trade.	
Max Tx?	Pass	
■ Is Anti Whale?	Not Detected	
■ Is Anti Bot?	Not Detected	
■ Is Blacklist?	Not Detected	
Blacklist Check	Pass	
is Whitelist?	Detected	
Can Mint?	Pass	
■ Is Proxy?	Not Detected	
Can Take Ownership?	Not Detected	
Hidden Owner?	Not Detected	
Owner	0x54C83626c9A1190dE1829Cc4b141b0B65FCc36f0	
Self Destruct?	Not Detected	
External Call?	Not Detected	
Other?	Not Detected	
Holders	1	
Auditor Confidence	High	
■ KYC Completed	No	

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.





Project Overview

Token Summary

Parameter	Result
Address	0xFC914eCB4e4cbEea1Fcf5315129C6cdB398cd465
Name	PawStars
Token Tracker	PawStars (PAWS)
Decimals	18
Supply	1,000,000,000
Platform	Ethereum
compiler	v0.8.19+commit.7dd6d404
Contract Name	PawStar
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://etherscan.io/address/0xfc914ecb4e4cbeea1fcf5315129c 6cdb398cd465#code
Payment Tx	Corporate





Main Contract Assessed Contract Name

Name	Contract	Live
PawStars	0xFC914eCB4e4cbEea1Fcf5315129C6cdB398cd465	Yes

TestNet Contract was Not Assessed

Solidity Code Provided

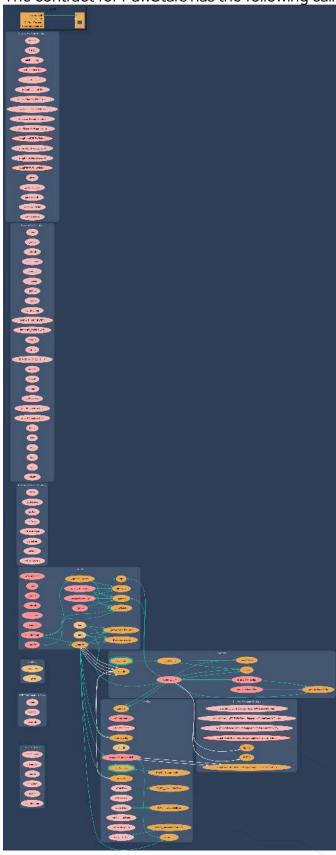
SolID	File Sha-1	FileName
PAW	10752ee2aba1b34392a2eff0ef11a49a929c9f56	PawStarETH.sol





Call Graph

The contract for PawStars has the following call graph structure.







Smart Contract Vulnerability Checks

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	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	PawStarETH.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	PawStarETH.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	PawStarETH.sol	L: 0 C: 0
SWC-103	Pass	A floating pragma is set.	PawStarETH.sol	L: 0 C: 0
SWC-104	Pass	Unchecked Call Return Value.	PawStarETH.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	PawStarETH.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	PawStarETH.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	PawStarETH.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set	PawStarETH.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	PawStarETH.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	PawStarETH.sol	L: 0 C: 0





ID	Severity	Name	File	location
SWC-111	Pass	Use of Deprecated Solidity Functions.	PawStarETH.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	PawStarETH.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	PawStarETH.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	PawStarETH.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	PawStarETH.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	PawStarETH.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	PawStarETH.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	PawStarETH.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	PawStarETH.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randonmness.	PawStarETH.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	PawStarETH.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	PawStarETH.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	PawStarETH.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	PawStarETH.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	PawStarETH.sol	L: 0 C: 0





ID	ID Severity Name		ID Severity		File	location
SWC-126	Pass	Insufficient Gas Griefing.	PawStarETH.sol	L: 0 C: 0		
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	PawStarETH.sol	L: 0 C: 0		
SWC-128	Pass	DoS With Block Gas Limit.	PawStarETH.sol	L: 0 C: 0		
SWC-129	Pass	Typographical Error.	PawStarETH.sol	L: 0 C: 0		
SWC-130	control character (U +202E).		PawStarETH.sol	L: 0 C: 0		
SWC-131			PawStarETH.sol	L: 0 C: 0		
SWC-132	Pass	Pass Unexpected Ether balance.		L: 0 C: 0		
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	PawStarETH.sol	L: 0 C: 0		
SWC-134	Pass	Message call with hardcoded gas amount.	PawStarETH.sol	L: 0 C: 0		
SWC-135	Pass Code With No Effects (Irrelevant/Dead Code)		PawStarETH.sol	L: 0 C: 0		
SWC-136	Pass	Unencrypted Private Data On-Chain.	PawStarETH.sol	L: 0 C: 0		

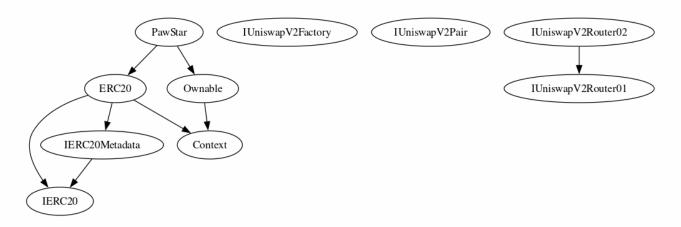
We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.





Inheritance

The contract for PawStars has the following inheritance structure.





Smart Contract Advance Checks

ID	Severity	Name	Result	Status
PAWS-01	Low	Potential Sandwich Attacks.	Pass	Not Detected
PAWS-02	Informational	Function Visibility Optimization	Fail	Detected
PAWS-03	Low	Lack of Input Validation.	Pass	Not Detected
PAWS-04	High	Centralized Risk In addLiquidity.	Pass	Not Detected
PAWS-05	Low	Missing Event Emission.	Pass	Not Detected
PAWS-06	Low	Conformance with Solidity Naming Conventions.	Pass	Not Detected
PAWS-07	Low	State Variables could be Declared Constant.	Pass	Not Detected
PAWS-08	Low	Dead Code Elimination.	Pass	Not Detected
PAWS-09	High	Third Party Dependencies.	Pass	Not Detected
PAWS-10	High	Initial Token Distribution.	Pass	Not Detected
PAWS-11	High	onlyDev configured as hidden owner.	Pass	Not Detected
PAWS-12	High	Centralization Risks In The X Role	Pass	Not Detected
PAWS-13	Informational	Extra Gas Cost For User	Pass	Not Detected
PAWS-14	Medium	Unnecessary Use Of SafeMath	Pass	Not Detected
PAWS-15	Medium	Symbol Length Limitation due to Solidity Naming Standards.	Pass	Not Detected





ID	Severity	Name	Result	Status
PAWS-16	Medium	Taxes can be up to 100%	Pass	Not Detected
PAWS-17	Logical Issue	Highly Permissive Role Access.,`	Pass	Not Detected
PAWS-18	Critical	Stop Transactions by using Enable Trade.	Pass	Not Detected





PAWS-02 | Function Visibility Optimization.

Category	Severity	Location	Status
Gas Optimization	1 Informational	PawStarETH.sol: L: 544 C: 14, L: 552 C: 14	Detected

Description

The following functions are declared as public and are not invoked in any of the contracts contained within the projects scope:

Function Name	Parameters	Visibility
renounceOwnership		public
transferOwnership		public

The functions that are never called internally within the contract should have external visibility

Remediation

We advise that the function's visibility specifiers are set to external, and the array-based arguments change their data location from memory to calldata, optimizing the gas cost of the function.

References:

external vs public best practices.





Technical Findings Summary

Classification of Risk

Severity	Description
Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
High	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
○ Medium	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
Low	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
1 Informational	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

Findings

Severity	Found	Pending	Resolved
Critical	0	0	0
High	0	0	0
○ Medium	0	0	0
Low	0	0	0
1 Informational	1	0	0
Total	1	0	0





Social Media Checks

Social Media	URL	Result
Twitter	https://twitter.com/pawstarcoin	Pass
Other	https://pawstar.gitbook.io/product-docs/	Pass
Website	https://pawstar.io/	Pass
Telegram	https://t.me/pawstarcoin	Pass

We recommend to have 3 or more social media sources including a completed working websites.

Social Media Information Notes:

Auditor Notes: undefined

Project Owner Notes:







Assessment Results

Score Results

Review	Score
Overall Score	97/100
Auditor Score	90/100
Review by Section	Score
Manual Scan Score	26/33
SWC Scan Score	37/37
Advance Check Score	34/36

The Following Score System Has been Added to this page to help understand the value of the audit, the maximun score is 100, however to attain that value the project most pass and provide all the data needed for the assessment. Our Passing Score has been changed to 80 Points, if a project does not attain 80% is an automatic failure. Read our notes and final assessment below.

Audit Passed







Assessment Results

Important Notes:

- The following contract is clean and has been audited several times.
- This is for the ETH Chain.

Auditor Score =90 Audit Passed







Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that actagainst the nature of decentralization, such as explicit ownership or specialized access roles incombination with a mechanism to relocate funds.

Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimalEVM opcodes resulting in a reduction on the total gas cost of a transaction.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on howblock.timestamp works.

Control Flow

Control Flow findings concern the access control imposed on functions, such as owneronly functionsbeing invoke-able by anyone under certain circumstances.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that mayresult in a vulnerability.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to makethe codebase more legible and, as a result, easily maintainable.

Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different require statements on the input variables than a setterfunction.





Coding Best Practices

ERC 20 Conding Standards are a set of rules that each developer should follow to ensure the code meet a set of creterias and is readable by all the developers.





Disclaimer

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