



Certified Blockchain  
Security Professional™



Certified Solidity  
Developer™

# OVERVIEW

## PROJECT SUMMARY

Project EthLlamasNFT

Platform N/a

Language Solidity

## AUDIT SUMMARY

Date 08-03-2022

Audit Type Static Analysis, Manual Review

Audit Result **PASSED**

Auditor Jarmo van de Seijp <https://tinyurl.com/Jvdseijp>

## RISK SUMMARY

Risk Level	Total	Found	Pending	Solved	Acknowledged	Objected
Critical	0	0	0	0	0	0
Major	0	0	0	0	0	0
Medium	1	1	0	0	1	0
Minor	3	3	0	2	1	0
Informative	5	5	0	3	2	0
Discussion	0	0	0	0	0	0

# FINDINGS

## Function Default Visibility

SWC-ID: SWC-100

*Relationship:*

CWE-710: Improper Adherence to Coding Standards

*Description:*

Functions that do not have a function visibility type specified are public by default. This can lead to a vulnerability if a developer forgot to set the visibility and a malicious user is able to make unauthorized or unintended state changes.

*Relevance:*

`getEthllamas`, `transferOwnership`, `renounceOwnership` should be declared external

Category	Risk Level	Number of Findings	Status
SWC-100	informational	3	Solved

## Constable State

*Relationship:*

CWE-710: Improper Adherence to Coding Standards

*Description:*

Constant state variables should be declared constant to save gas.

*Relevance:*

`_ownerWallet` should be declared constant

Category	Risk Level	Number of Findings	Status
SWC-108	informational	1	Solved

## Unused Code

SWC-ID: SWC-131

*Relationship:*

CWE-1164: Irrelevant Code

*Description:*

Unused variables are allowed in Solidity and they do not pose a direct security issue. It is best practice though to avoid them as they can:

- cause an increase in computations (and unnecessary gas consumption)
- indicate bugs or malformed data structures and they are generally a sign of poor code quality
- cause code noise and decrease readability of the code

*Relevance:*

`_totalReserved` is never used

Category	Risk Level	Number of Findings	Status
SWC-131	Informational	1	Solved

*Note:*

*a lot of the inherited from libraries contain unused code. I can give you the full list, which is quite big, but that's only relevant if you intend to change the imports.*

## Missing Events

*Description:*

The contract may change significant state variables in the contract, but does not emit these changes in events. This may result in lack of transparency or 3rd party applications being unable to properly register the contract's current state

*Relevance:*

`setCost` and `setMaxMintAmount` should emit an event (expecially `setCost`)

Category	Risk Level	Number of Findings	Status
Missing events	minor	2	Solved

# Risk Of Centralization

*Description:*  
The owner of the contract has the power to significantly change the economics from within the contract. All Fees, Taxes and Swap&Liquify are controlled without governance. Losing access to the owner account would result in permanent loss of control of these functions

Category	Risk Level	Number of Findings	Status
Control Flow	Minor	1	Acknowledged

# Access Control

*Description:*  
The owner of the contract is transferred to an arbitrary address without checking if the recipient is able to accept ownership, or is a contract address with no method of controlling the ownership functions. In case of a mistakenly transferred ownership, it would be lost permanently

Category	Risk Level	Number of Findings	Status
Push-Over-Pull	Medium	1	Acknowledged

# AUDIT RESULT

## Basic Coding Bugs

### 1. Constructor Mismatch

*o Description: Whether the contract name and its constructor are not identical to each other.*

*o Result: PASSED*

*o Severity: Critical*

## Ownership Takeover

*o Description: Whether the set owner function is not protected.*

*o Result: PASSED*

*o Severity: Critical*

## Redundant Fallback Function

*o Description: Whether the contract has a redundant fallback function.*

*o Result: PASSED*

*o Severity: Critical*

## Overflows & Underflows

*Description: Whether the contract has general overflow or underflow*

*Vulnerabilities*

*o Result: PASSED*

*o Severity: Critical*

## Reentrancy

*o Description: Reentrancy is an issue when code can call back into your contract and change state, such as withdrawing ETHs.*

*o Result: PASSED*

*o Severity: Critical*

## MONEY-Giving Bug

*o Description: Whether the contract returns funds to an arbitrary address.*

*o Result: PASSED*

*o Severity: High*



## Blackhole

*o Description: Whether the contract locks ETH indefinitely; merely in without out.*

*o Result: PASSED*

*o Severity: High*

## Unauthorized Self-Destruct

*o Description: Whether the contract can be killed by any arbitrary address.*

*o Result: PASSED*

*o Severity: Medium*

## Revert DoS

*o Description: Whether the contract is vulnerable to DoS attack because of unexpected revert.*

*o Result: PASSED*

*o Severity: Medium*

## Unchecked External Call

*o Description: Whether the contract has any external call without checking the return value.*

*o Result: PASSED*

*o Severity: Medium*

## Gasless Send

*o Description: Whether the contract is vulnerable to gasless send.*

*o Result: PASSED*

*o Severity: Medium*

## Send Instead of Transfer

*o Description: Whether the contract uses send instead of transfer.*

*o Result: PASSED*

*o Severity: Medium*

## Costly Loop

*o Description: Whether the contract has any costly loop which may lead to Out-Of-Gas exception.*

*o Result: PASSED*

*o Severity: Medium*

## (Unsafe) Use of Untrusted Libraries

*o Description: Whether the contract use any suspicious libraries.*

*o Result: PASSED*

*o Severity: Medium*

## (Unsafe) Use of Predictable Variables

*o Description: Whether the contract contains any randomness variable, but its value can be predicated.*

*o Result: PASSED*

*o Severity: Medium*

## Transaction Ordering Dependence

*o Description: Whether the final state of the contract depends on the order of the transactions.*

*o Result: PASSED*

*o Severity: Medium*

## . Deprecated Uses

*o Description: Whether the contract use the deprecated tx.origin to perform the authorization.*

*o Result: PASSED*

*o Severity: Medium*