



KURAMA

CERTIFICATE OF AUDIT

This certificate is presented to

BITINAUTS

This certificate is awarded by being audited by
Sandman Finance Audit Team in the use of Safe
Protocol on each module



NFTAuction: 0x4d03218B1CEa2386590330550c9b3d8BDCc9FED8	PASSED
NFTFactory: 0xf350EffC36fE9D072CC18656162e5862a3c6A2d8	PASSED

3e0a6a0f-1e95-4e12-a39f-7d4e4f4c7f0a

Kurama Protocol License Identifier



June 2023

Bitinauts NFT Audit Report

Readability and Structure:

The contracts are highly readable and well-structured, employing clear and logical segmentation for different aspects such as state variables, events, errors, and functions. The naming conventions are consistent, making it easier to understand the purpose and behavior of each variable and function in the contracts.

Libraries:

These contracts use the OpenZeppelin library, a standard in Ethereum smart contracts known for its secure and community-audited code. Utilizing OpenZeppelin contracts such as 'ReentrancyGuard' and 'Ownable' helps mitigate common security risks and simplifies the management of contract ownership.

Security:

The contracts incorporate the 'nonReentrant' modifier from the OpenZeppelin library to prevent reentrancy attacks, which is a common smart contract vulnerability. The contracts also restrict certain operations to the contract owner using the 'onlyOwner' modifier, limiting potential attack vectors.

Functions:

The contracts have a series of well-defined functions in line with their purpose of managing an NFT auction. Users can place a bid ('placeBid'), claim an NFT if they are a winning bidder ('claimNFT'), or request a refund if they didn't win ('claimRefund').

Events:

The contracts emit events for every significant action, such as placing a bid, claiming an NFT, claiming a refund, and transferring payments. These events allow for easier tracking of contract activity and are crucial for external listeners or front-end interfaces.

Custom Errors:

The contracts utilize custom errors, a newer feature in Solidity that allows for more expressive and detailed error messaging. This enhances the readability and debuggability of the contracts, aiding both developers and users in understanding what went wrong in case of an error.



June 2023

Bitinauts NFT Auction Contract Setup

StartTime	1686139200 uint256
endTime	1686744000 uint256
min Bid Price	0.16 ether
Admin Wallet	0x9f643feCd9ebeAD21205b500FD91BB6ddf7dfCAe



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