OXSCANS

# BaseCraft

**AI Generated at 10:00 AM, UTC**

**Feburary 14, 2024**

## OVERVIEW

This audit has been perpared for 'BaseCraft' to review the main aspects of the project to help investors make an informative decision during their research process

You will find a summarized review of the following key points:

- Contract's source code
- Owner wallets
- Tokenomics
- Team transparency and goals
- Website's age, code, security and UX
- Whitepaper and roadmap
- Social media and online presence

# Table of Content

# General Information

## BaseCraft

description

Name **BaseCraft**

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Info Twitter

# General Information

## Tokenomics

| | |
|---|---|
| Deployed | Feburary 13, 2024 |
| Contract Address | 0x147ab6b1f18a859a180824268784004c4bf9c144 |

## General Analysis

### Audit Review Process

1. Testing the smart contracts against both common and uncommon vulnerabilities
2. Assessing the codebase to ensure compliance with current best practices and industry standards
3. Ensuring contract logic meets the specifications and intentions of the client
4. Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders
5. Thorough line-byline AI review of the entire codebase by industry

## Detail Analysis

### Threat Level

| | |
|---|---|
| High | Issues on this level are critical to the smart contract's performace/functionality and should be fixed before moving to a live enviroment |
| Medium | Issues on this level are critical to the smart contract's performace/functionality and should be fixed before moving to a live enviroment |
| Low | Issues on this level are minor details and warning that can remain unfixed |
| Informational | Informational level is to offer suggestions for improvement of efficacy or secruity for fratures with risk free factor |

### Threat Level

| | |
|---|---|
| High | **5** threats found |
| Medium | **0** threats found |
| Low | **0** threats found |
| Informational | **0** threats found |

## Detail Analysis

### Vulnerability Check

16 Passed | 5 Fail

| | | | |
|---|---|---|---|
| ● Arbitrary Jump/Storage Write | ● Centralization of Control | | |
| ● Compiler Issues | ● Delegate Call to Untrusted Contract | | |
| ● Dependence on Predictable Variables | ● Ether/Token Theft | | |
| ● Flash Loans | ● Front Running | ● Improper Events | |
| ● Improper Authorization Scheme | ● Integer Over/Underflow | | |
| ● Logical Issues | ● Oracle Issues | ● Outdated Compiler Version | |
| ● Race Conditions | ● Reentrancy | ● Signature Issues | ● Sybil Attack |
| ● Unbounded Loops | ● Unused Code | ● Overall Contract Safety | |

# Detail Analysis

## Detail Analysis

16 Passed

5 Fail

| CATEGORY | STATUS | NOTES |
| --- | --- | --- |
| Arbitrary Jump/Storage Write | | No low-level calls or assembly code present that could lead to arbitrary jumps or storage writes. |
| Centralization of Control | | The contract has an 'owner' role with centralized control, which can set rates, whitelist addresses, and extract contract funds. |
| Compiler Issues | | The contract is compiled with Solidity ^0.8.0, which includes safety features such as overflow checks. |
| Delegate Call to Untrusted Contract | | The contract does not use delegatecall. |
| Dependence on Predictable Variables | | The contract uses block.timestamp for mining calculations, which can be manipulated by miners to some extent. |

# Detail Analysis

## Detail Analysis

16 Passed

5 Fail

| CATEGORY | STATUS | NOTES |
| --- | --- | --- |
| Ether/Token Theft | ● | No obvious vulnerabilities that would allow ether or token theft from the contract. |
| Flash Loans | ● | The contract does not interact with flash loans or related mechanisms. |
| Front Running | ● | Some functions like marketExchange and buyPickaxes are susceptible to front running, where miners or users with faster access to the network can potentially exploit the order of transactions. |
| Improper Events | ● | Events are used appropriately to signal state changes. |
| Improper Authorization Scheme | ● | The contract has a single owner with extensive privileges, which can be a risk if the owner account is compromised. |
| Integer Over/Underflow | ● | Solidity ^0.8.0 includes automatic checks for overflows and underflows. |

# Detail Analysis

## Detail Analysis

16 Passed

5 Fail

| CATEGORY | STATUS | NOTES |
| --- | --- | --- |
| Logical Issues | ● | No logical issues detected upon manual inspection. However, manual inspection is not exhaustive. |
| Oracle Issues | ● | The contract does not use external oracles. |
| Outdated Compiler Version | ● | The contract uses a recent Solidity compiler version ^0.8.0. |
| Race Conditions | ● | The contract's use of block.timestamp could lead to race conditions in conjunction with external calls and state changes. |
| Reentrancy | ● | No reentrancy vulnerabilities detected as there are no external calls within critical functions that change contract state. |
| Signature Issues | ● | The contract does not use signature verification. |

# Detail Analysis

## Detail Analysis

16 Passed

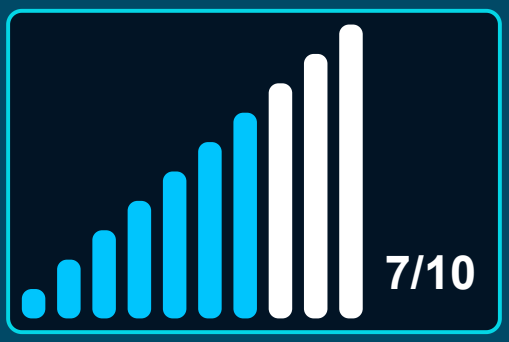
5 Fail

| CATEGORY | STATUS | NOTES |
| --- | --- | --- |
| Sybil Attack | | Sybil attacks are not directly related to smart contract vulnerabilities in this context. |
| Unbounded Loops | | No unbounded loops that could lead to gas limit issues or denial of service. |
| Unused Code | | No significant chunks of unused code detected. |
| Overall Contract Safety | | The contract follows many best practices, but centralization and predictability issues reduce its overall safety. |

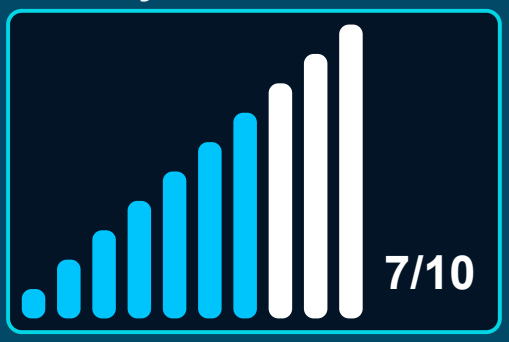
## Market Analysis

### Score

Total Audit Score




Security Score



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