

Nether.Fi Security Audit Report

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Executive Summary

Title	Description
Client	<u>Nether.Fi</u>
Project	Nether.Fi Contracts
Platform	Base Network
Language	Solidity
Repository	nether.fi-contracts
Initial commit	e2531589be47e5530cc2157e6eb2af9119a03c2b
Final commit	-
Timeline	October 02 2023 - November 13 2023

Project Overview

Nether.Fi is a decentralized perpetual & swap exchange on Base Network.

Audit Scope

File	Link
Vault.sol	<u>Vault.sol</u>
VaultPriceFeed.sol	<u>VaultPriceFeed.sol</u>
NlpManager.sol	NlpManager.sol
USDG.sol	<u>USDG.sol</u>
EsNEFI.sol	<u>EsNEFI.sol</u>
YieldToken.sol	<u>YieldToken.sol</u>
NEFI.sol	NEFI.sol
NLP.sol	NLP.sol
BaseToken.sol	<u>BaseToken.sol</u>
MintableBaseToken.sol	<u>MintableBaseToken.sol</u>
BasePositionManager.sol	BasePositionManager.sol
PositionManager.sol	<u>PositionManager.sol</u>
PositionRouter.sol	PositionRouter.sol

Audit Methodology

General Code Assessment

The code is reviewed for clarity, consistency, style, and whether it follows code best practices applicable to the particular programming language used, such as indentation, naming convention, commented code blocks, code duplication, confusing names, irrelevant or missing comments, etc. This part is aimed at understanding the overall code structure and protocol architecture. Also, it seeks to learn overall system architecture and business logic and how different parts of the code are related to each other.

Code Logic Analysis

The code logic of particular functions is analyzed for correctness and efficiency. The code is checked for what it is intended for, the algorithms are optimal and valid, and the correct data types are used. The external libraries are checked for relevance and correspond to the tasks they solve in the code. This part is needed to understand the data structures used and the purposes for which they are used. At this stage, various public checklists are applied in order to ensure that logical flaws are detected.

Entities and Dependencies Usage Analysis

The usages of various entities defined in the code are analyzed. This includes both: internal usage from other parts of the code as well as possible dependencies and integration usage. This part aims to understand and spot overall system architecture flaws and bugs in integrations with other protocols.

Access Control Analysis

Access control measures are analyzed for those entities that can be accessed from outside. This part focuses on understanding user roles and permissions, as well as which assets should be protected and how.

Use of checklists and auditor tools

Auditors can perform a more thorough check by using multiple public checklists to look at the code from different angles. Static analysis tools (Slither) help identify simple errors and highlight potentially hazardous areas. While using Echidna for fuzz testing will speed up the testing of many invariants, if necessary.



Vulnerabilities

The audit is directed at identifying possible vulnerabilities in the project's code. The result of the audit is a report with a list of detected vulnerabilities ranked by severity level:

Severity	Description
Critical	Vulnerabilities leading to the theft of assets, blocking access to funds, or any other loss of funds.
High	Vulnerabilities that cause the contract to fail and that can only be fixed by modifying or completely replacing the contract code.
Medium	Vulnerabilities breaking the intended contract logic but without loss of fun ds and need for contract replacement.
Low	Minor bugs that can be taken into account in order to improve the overall qu ality of the code

After the stage of bug fixing by the Customer, the findings can be assigned the following statuses:

Status	Description
Fixed	Recommended fixes have been made to the project code and no longer affect it s security.
Acknowledged	The Customer took into account the finding. However, the recommendations wer e not implemented since they did not affect the project's safety.

Findings Summary

Severity	# of Findings
Critical	0
High	3
Medium	12
Low	16

ID	Severity	Title	Status
H-1	High	The getAum function can include the same token twice	Acknowledged
H-2	High	Incorrect usage of the Chainlink feed	Acknowledged
H-3	High	The protocol disadvantage in case of stable token depeg	Acknowledged
M-1	Medium	A possibility of DoS (allWhitelistedTokens)	Acknowledged
M-2	Medium	Tokens cannot be removed from the whitelist	Acknowledged
M-3	Medium	Users may not pay a deposit fee	Acknowledged
M-4	Medium	A possibility to remove liquidity without the cooldown duration	Acknowledged
M-5	Medium	There are no limits for variables	Acknowledged
M-6	Medium	Positions and token balances are lost in the Vault upgrade	Acknowledged
M-7	Medium	A fixed fee reward	Acknowledged
M-8	Medium	A possibility to lose access for governance	Acknowledged
M-9	Medium	Access to user token transfers	Acknowledged
M-10	Medium	A problem with the access control	Acknowledged
M-11	Medium	Incorrect liquidity adding when transferring a few tokens	Acknowledged

M-12	Medium	USDG tokens can be bought and sold in one transaction	Acknowledged
L-1	Low	Naming duplication	Acknowledged
L-2	Low	Old Solidity version and floating pragma	Acknowledged
L-3	Low	Events for the setter functions	Acknowledged
L-4	Low	Stucked ETH transfer out	Acknowledged
L-5	Low	Unsafe default price feed	Acknowledged
L-6	Low	Input value checks	Acknowledged
L-7	Low	Chainlink flags	Acknowledged
L-8	Low	The constructor creates two roles for one account	Acknowledged
L-9	Low	No NatSpec	Acknowledged
L-10	Low	Out of gas in possible infinite loops	Acknowledged
L-11	Low	No array length check	Acknowledged
L-12	Low	The allowance double-spend exploit	Acknowledged
L-13	Low	The name and symbol of the token can be changed	Acknowledged
L-14	Low	Possible overflow	Acknowledged
L-15	Low	Division by zero	Acknowledged
L-16	Low	A Base network compatibility issue	Acknowledged

Findings

Critical

Not Found

High

H-1 High

The getAum function can include the same token twice

Acknowledged

Description

NIpManager.sol#L137-L144

Vault.sol#L360-L405

The getAum function in the NlpManager contract iterates all tokens from the vault in the allWhitelistedTokens array.

In vault two functions exist: setTokenConfig and clearTokenConfig.

The first function registers the token, and the second function deletes the registered token. The setTokenConfig function adds a token to the allWhitelistedTokens array.

So, let's consider the following case:

- 1. The admin registers a token using setTokenConfig allWhitelistedTokens have one token;
- 2. The admin deletes the token using clearTokenConficg here, the token from allWhitelistedTokens isn't removed; therefore, allWhitelistedTokens will have one token;
- 3. The admin adds the same token using setTokenConfig the token will be added to allWhitelistedTokens again, and allWhitelistedTokens will have **TWO** tokens;
- 4. When someone calls NlpManager#getAum, this line uint256 length =
 vault.allWhitelistedTokensLength(); will return an incorrect result 2 instead of 1;
- 5. Users will run the code in for-loop twice, but it must be run only once.

Recommendation

We recommend removing the token from allWhitelistedTokens with clearTokenConfig.

Client's commentary

This is completely true in the case when a token is added to a platform, deleted and then added the second time. We will not add many tokens to a platform and we are not going to delete them from the Vault contract, instead we wil simply change their weight to 1 (as GMX did in the past).

The VaultPriceFeed.sol contract receives the information about the price using the Chainlink feed.

From the Chainlink documentation the latestAnsfer() (https://docs.chain.link/data-feeds/api-reference#latestanswer) and latestRound() (https://docs.chain.link/data-feeds/api-reference#latestround) functions are deprecated.

However, these functions are used in the <code>VaultPriceFeed</code> contract:

VaultPriceFeed.sol#L281

VaultPriceFeed.sol#L302

VaultPriceFeed.sol#L309

Recommendation

We recommend using the Chainlink latestRoundData() function with safety checks and adding checks for the return data with proper revert messages if the price is stale or the round is incomplete.

Client's commentary

This is completely true, Chainlink marked those functions as deprecated. The VaultPriceFeed contract has checks implemented which guarantee that execution continues only if latestRound() or latestAnswer() is not zero and the VaultPriceFeed contract can be changed.





In the Vault, the getPrice function can return two price bounds – upper and lower. For stable tokens functions getPriceV1 and getPriceV2, the return price is bound between the actual price and 1 USD (VaultPriceFeed.sol#L164).

```
function getPriceV1(address _token, bool _maximise, bool _includeAmmPrice) ]
       uint256 price = getPrimaryPrice( token, maximise);
        if (strictStableTokens[ token]) {
            uint256 delta = price > ONE USD ? price.sub(ONE USD) : ONE USD.
            if (delta <= maxStrictPriceDeviation) {</pre>
               return ONE USD;
            }
            // if maximise and price is e.g. 1.02, return 1.02
            if ( maximise && price > ONE USD) {
               return price;
            // if ! maximise and price is e.g. 0.98, return 0.98
            if (! maximise && price < ONE USD) {
               return price;
           return ONE USD;
        }
        . . .
```

If a stable token in the service balance is depegged downwards by 20%, then the lower price will be 0.8 USD and the upper price will be 1 USD for this token.

Then, in AUM calculation, if AUM is maximized, 1 USD will be used as the stable token price (NIpManager.sol#L136):

```
function getAum(bool maximise) public view returns (uint256) {
    uint256 length = vault.allWhitelistedTokensLength();
    uint256 aum = aumAddition;
    uint256 shortProfits = 0;
    IVault _vault = vault;

    for (uint256 i = 0; i < length; i++) {
        address token = vault.allWhitelistedTokens(i);
        ...

        uint256 price = maximise ? _vault.getMaxPrice(token) : _vault
```

An unreasonably large AUM affects the NLP price and makes NLP tokens much more expensive to buy than they should be (NlpManager.sol#L209-L230):

Then holders can sell it at a much lower price than it was bought (NIpManager.sol#L232-L260):

```
function removeLiquidity(address account, address tokenOut, uint256 glp
       . . .
       // calculate aum before sellUSDG
       uint256 aumInUsdg = getAumInUsdg(false);
       uint256 glpSupply = IERC20(glp).totalSupply();
       // @audit low AUM is used here and sell price is low
       uint256 usdgAmount = glpAmount.mul(aumInUsdg).div(glpSupply);
       uint256 usdgBalance = IERC20(usdg).balanceOf(address(this));
       if (usdgAmount > usdgBalance) {
           IUSDG(usdg).mint(address(this), usdgAmount.sub(usdgBalance));
       IMintable(glp).burn(account, glpAmount);
       IERC20(usdg).transfer(address(vault), usdgAmount);
       uint256 amountOut = vault.sellUSDG( tokenOut, receiver);
       require(amountOut >= _minOut, "GlpManager: insufficient output");
       emit RemoveLiquidity( account, tokenOut, glpAmount, aumInUsdg, gl]
       return amountOut;
```

This situation incentivizes users not to act and does not provide liquidity because any purchase transaction leads to money loss for the user, and the protocol is stopped.

Recommendation

Our recommendation is not to force the price of stablecoins to be 1 USD, but to take advantage of the market situation.

Client's commentary



Medium

M-1



Medium

A possibility of DoS (allWhitelistedTokens)

Acknowledged

Description

Limiting the maximum gas limit per block creates the possibility of a DoS that may occur because there is no limit on the allWhitelistedTokens from the Vault contract. The loop from the NlpManager iterates over the allWhitelistedTokens. If the count of the token is too big, the getAum() function from the NlpManager won't work.

Recommendation

We recommend adding a value for the maximum number of tokens which the government can add to the whitelist.

Client's commentary

We are not going to add many tokens to a platform because the allWhitelistedTokens array can become unreasonably long, which will stop NlpManager from issuing nlp tokens and as a result it will stop everything on the platform, however, this exact issue can only occur with a high number of tokens added.

There is an array of whitelisted tokens in the Vault contract. The governance can add tokens with the setTokeConfig function but can't remove them with the clearTokenConfig function because the governance contract Timelock doesn't have this function.

The functions listed below cannot be called from the Timelock contract:

- Vault.sol#L245
- Vault.sol#L259
- <u>Vault.sol#L393</u>
- NlpManager.sol#L93

Recommendation

We recommend adding the vaultClearTokenConfig function to the Timelock contract.

Client's commentary

This is true, the Timelock contract does not have all the functionality. This can be easily bypassed by transferring gov of a needed contract to EOA.

The executeIncreasePosition function in the PositionRouter contract uses the _collectFees function to calculate the fee amount. Since the first address is msg.sender, in case the Executor is calling the function, the fees will be equal to zero because the Executor won't have any position.

(PositionRouter.sol#L432)

Recommendation

We recommend changing the msg.sender to the request.account.

Client's commentary

While true, the same error is present on GMX. This "deposit fee" that is taken during executeIncreasePosition is set to 0.3% (on GMX and on Nether.fi). Though it does not work properly, the execution fee that is taken in ETH works properly.





A possibility to remove liquidity without the cooldown duration

Acknowledged

Description

The NlpManager contract allows the minting and burning of NLP tokens and this contract has the cooldown duration after minting NLP tokens. The cooldown duration represents the time that needs to pass for the user before they can remove liquidity.

When the user withdraws liquidity, this contract validates that the cooldown duration has passed. However, the user can transfer the NLP tokens to another account and remove liquidity.

(NlpManager.sol#L234)

Recommendation

We recommend fixing it.

Client's commentary

While true, it is unclear how this can be fixed, as the ERC20 tokens are "fungible". Furthermore, cooldownDuration is set to zero on GMX and on Nether.Fi.

There are no limits to the following variables:

- spreadThresholdBasisPoints
 - (VaultPriceFeed.sol#L120)
- depositFee
 - (BasePositionManager.sol#L110)
- aumAddition and aumDeduction
 - (NlpManager.sol#L93)
- increasePositionBufferBps
 - (BasePositionManager.sol#L115)

Recommendation

We recommend adding variable ranges.





Positions and token balances are lost in the Vault upgrade

Acknowledged

Description

The Vault upgrade mechanism allows one to migrate to another Vault by sending tokens. (Vault.sol#L437-L440)

However, the Vault contract stores open positions that the governance will not transfer to a new Vault.

(Vault.sol#L128-L129)

Old users will not be able to close their positions opened in the old vault after migration.

Also, after calling the upgradeVault function in the Vault contract, the balance of the new Vault is the value transferred with the upgrade function, but the tokenBalances mapping in the new Vault contract is empty. It can't be set manually by governance.

(Vault.sol#L94)

Recommendation

We recommend implementing a complex way to migrate the Vault that doesn't drop positions.

Client's commentary

True, right now it is unclear how to efficiently migrate Vault and it will require a lot of effort (and gas) to do this in the most efficient way.

The liquidatePosition function in the Vault contract sends the fixed liquidationFeeUsd amount to the liquidator as the reward.

The liquidator can create a lot of small positions with amounts less than the reward and then liquidate them, receiving the fixed amount for each liquidation.

Vault.sol#L751

Recommendation:

We recommend adding a fee percentage for small positions.

Client's commentary

True, however, Vault is now in a private liquidation mode and only liquidator is a position manager. There is a liquidator role on position manager, so presumably only a backend address is able to liquidate positions, users should be aware of this and not create many small positions.





The governance can set the gov address to a non-active address. If this happens, the governance loses access to the protocol.

In Router.sol:

Router.sol#L48

In Vault.sol:

Vault.sol#L294

In VaultPriceFeed.sol:

VaultPriceFeed.sol#L68

In BaseToken.sol:

BaseToken.sol#L52

In YiledToken.sol:

YieldToken.sol#L53

In Governable.sol:

Governable.sol#L17

In OrderBook.sol:

OrderBook.sol#L277

Recommendation:

We recommend adding a two-step procedure for setGov functions.

Client's commentary

True, it can be done due to a human error, Timelock and/or other contracts can be changed.

In the YieldToken contract, the governance can block token transfers:

```
function _transfer(address _sender, address _recipient, uint256 _amount) pr
...
  // @audit governance can disable token transferring
  if (inWhitelistMode) {
    require(whitelistedHandlers[msg.sender], "YieldToken: msg.sender no"
}
```

(YieldToken.sol#L185)

In the BaseToken contract, the governance can withdraw any user tokens:

```
function transferFrom(address _sender, address _recipient, uint256 _amount)
    // @audit Handler set by governance can withdraw any user tokens
    if (isHandler[msg.sender]) {
        _transfer(_sender, _recipient, _amount);
        return true;
    }
}
```

(BaseToken.sol#L144)

While in the BaseToken contract, the governance can block token transfers:

```
function _transfer(address _sender, address _recipient, uint256 _amount) pro
...

// @audit Governance can block token transferring
if (inPrivateTransferMode) {
    require(isHandler[msg.sender], "BaseToken: msg.sender not whitelister)
}
```

(BaseToken.sol#L188)

Recommendation

We recommend finding another solution for token transfers.

Client's commentary

True. This is done to achieve better user experience with transferring many tokens on a platform.

After setting the new gov address, the old gov address has access to several functions as admin.

YieldToken.sol#L49

YieldToken.sol#L54

YieldToken.sol#L87

YieldToken.sol#L94

YieldToken.sol#L101

Recommendation

We recommended removing admin's rights from the old gov address.

Client's commentary

True, however, admin was already removed from USDG (only the affected contract) from the deployer address. The deployer is not a gov nor admin on USDG. The gov address is only gov, not admin.

M-11



Incorrect liquidity adding when transferring a few tokens

Acknowledged

Description

The addLiquidity function in the NlpManager contract is incorrect when a few tokens are transferred.

A possible flow:

- 1. Add liquidity (e.g. 1000).
- 2. Remove part of the liquidity (999, but save 1). The total supply of NLP has to be 1.
- 3. Add liquidity again (e.g. 100). The tokens for deposit are transferred. NLP Tokens are not received.

Recommendation

We recommend adding the minGlp > 0 check or checking that the mintAmount is not zero.

Client's commentary

True, however, the <u>_minUsdg</u> and <u>_minGlp</u> values are regulated on the frontend, so it is unlikely for an average user to encounter this problem.

Acknowledged



Description

The buyUSDG and selluSDG functions in the Vault contract can be called within one transaction that allows price manipulation issues to be exploited using flash loans.

The NLP token that wraps USDG has protection from calling the removeLiquidity function in one transaction with the addLiquidity function.

(NlpManager.sol#L232-L235)

However, in the sellusDG function in the Vault contract, there are no such checks.

Recommendation

We recommend adding checks for this case.

Client's commentary

True, but the only address with access to those functions is NlpManager. Furthermore, cooldownDuration is set to zero on GMX and on Nether.Fi.

Low





Many contracts use the 0.6.12 version of the Solidity compiler. By mitigating the new version of the compiler, you lose new compiler optimizations and bug fixes, which can save gas and decrease the probability of attacks specific to old solidity versions.

Locking the pragma helps ensure that contracts do not accidentally get deployed using a different compiler version.

BasePositionManager.sol#L3

PositionManager.sol#L3

PositionRouter.sol#L3

Recommendation

We recommend updating contracts to the latest Solidity version and locking pragma to a specific Solidity version.

Client's commentary

True, however, we did not change the solidity version to ensure that our contracts will follo the GMX contracts as closely as possible and to avoid potential errors. All currently deployed contracts were compiled using solidity version 0.6.12 with 1 optimizer runs.

Many functions have no events.

- Vault.sol#L279
- BaseToken.sol#L69
- YieldToken.sol#L62
- NlpManager.sol#L75
- <u>VaultPriceFeed.sol#L72</u>
- BasePositionManager.sol#L55
- <u>PositionManager.sol#L27</u>
- and other setters

Recommendation

We recommend adding events for the setters function for old and new values.

Client's commentary

True, but it can still be tracked via onchain transactions.

When the transaction is successful with increasing/decreasing a trader's position but the ETH transfer is unsuccessful and the ETH recipient will not receive his profit or execution fee:

BasePositionManager.sol#L285

Stucked ETH can be withdrawn by admin or governance:

BasePositionManager.sol#L153

Recommendation

We recommend checking the return value, and if the ETH transfer failed, then re-wrap it back to WETH and transfer it to the receiver.

Client's commentary

True, however, it's only likely to occur if the receiver is a contract which does some action (potentially malicious) upon receiving ETH. It's done this way to ensure some level of safety.

Acknowledged

Description

By default, the Vault contract and the VaultPriceFeed contract use params:

Vault.sol#L73

VaultPriceFeed.sol#L29-L31

Low

```
contract Vault is ReentrancyGuard, IVault {
    ...
    bool public includeAmmPrice = true;
    ...
}

contract VaultPriceFeed is IVaultPriceFeed {
    ...

bool public isAmmEnabled = true;
    bool public isSecondaryPriceEnabled = true;
    bool public useV2Pricing = false;
```

These flags enable unsafe V1 pricing that is vulnerable to oracle manipulation attack:

VaultPriceFeed.sol#L371

```
// if divByReserve0: calculate price as reserve1 / reserve0
// if !divByReserve1: calculate price as reserve0 / reserve1
function getPairPrice(address _pair, bool _divByReserve0) public view return
  (uint256 reserve0, uint256 reserve1, ) = IPancakePair(_pair).getReserve0
  if (_divByReserve0) {
    if (reserve0 == 0) { return 0; }
    return reserve1.mul(PRICE_PRECISION).div(reserve0);
}

if (reserve1 == 0) { return 0; }
  return reserve0.mul(PRICE_PRECISION).div(reserve1);
}
```

In this case, AMM is used, which is vulnerable to price manipulation (for example, changing reserves using a flash loan). This vulnerability can be used for sandwich attacks.

Recommendation

We recommend changing default values for the isAmmEnabled, useV2Pricing variables to false, in order to prohibit their changing to unsafe values or removing this code.

Client's commentary

True, however, isAmmEnabled and useV2Pricing are already set to false. Furthermore, it is better to never use amm pricing.

Some input params have no checks.

• amount:

MintableBaseToken.sol#L24

YieldToken.sol#L130

NlpManager.sol#L216

• liquidationFeeUsd, fundingRateFactor ${\it and}$ stableFundingRateFactor:

Vault.sol#L235

_amountIn and _sizeDelta:

PositionManager.sol#L80

Router.sol#L109

Recommendation

We recommend adding input values checks.



In the VaultPriceFeed contract, the getPrimaryPrice function uses the Arbitrum Flag from Chainlink.

<u>VaultPriceFeed.sol#L24</u>

VaultPriceFeed.sol#L292

Recommendation

We recommend updated functions for the Base Network.

Client's commentary

True, however, this is currently unused functionality and the chainlinkFlags contract can be set to a custom developed one.

The constructor creates two roles for one account:

YieldToken.sol#L4.

Recommendation

We recommend adding a variable for the admin role to input params.

L-9 Low No NatSpec Acknowledged

Description

The NatSpec is missing for all functions.

Recommendation

We recommend adding NatSpec.

Some loops can make many iterations, leading to the out-of-gas situation.

BaseToken.sol#L101

BaseToken.sol#L108

BaseToken.sol#L218

YieldToken.sol#L102

YieldToken.sol#L109

YieldToken.sol#L215

NlpManager.sol#L142

Recommendation

We recommend setting the upper limit for yieldTrackers and validating it in the setYieldTrackers function in the BaseToken and YieldToken contracts.

Also, we recommend limiting the maximum number of tokens in the whitelist in the setTokenConfig function in the Vault contract.

Client's commentary

True, however, every instance listed except for NlpManager is unused functionality.

No array length check

Acknowledged

Description

 $\ensuremath{\mathsf{A}}$ check that array lengths are the same is missing:

BasePositionManager.sol#L132

Recommendation

We recommend adding this check.

Contracts are vulnerable to the allowance double-spend exploit.

- YieldToken.sol#L139
- BaseToken.sol#L138

Recommendation

We recommended implementing and using ${\tt safeIncreaseAllowance}$ and ${\tt safeDecreaseAllowance}.$



The name and symbol of the token can be changed

Acknowledged

Description

The setInfo function allows changing the token's name and symbol:

YieldToken.sol#L57

BaseToken.sol#L56

Recommendation

We recommended removing this function.

Client's commentary

We don't plan to use this feature.

L-14



Possible overflow

Acknowledged

Description

SafeMath is used but not everywhere.

- Vault.sol#L1012
- Vault.sol#L1032
- BasePositionManager.sol#L344
- <u>PositionManager.sol#L310</u>

Recommendation

We recommend using SafeMath.

Description

The supply variable may be zero.

NlpManager.sol#L121

Recommendation

We recommend adding zero checks for the supply value.

Client's commentary

Acknowledged

The protocol has native support for BNB and wBTC tokens:

(VaultPriceFeed.sol#L103-L107)

```
function setTokens(address _btc, address _eth, address _bnb) external onlyGo
   btc = _btc;
   eth = _eth;
   bnb = _bnb;
}

function setPairs(address _bnbBusd, address _ethBnb, address _btcBnb) extern
   bnbBusd = _bnbBusd;
   ethBnb = _ethBnb;
   btcBnb = _btcBnb;
}
```

However, the Base Network has no support for these tokens.

Recommendation

We recommend removing unsupported tokens or reorganizing logic based on assets supported by the network.



Conclusion

During the audit process 3 HIGH, 12 MEDIUM, and 16 LOW severity findings have been spotted.

Disclaimer

The Stronghold audit makes no statements or warranties about the utility of the code, the safety of the code, the suitability of the business model, investment advice, endorsement of the platform or its products, the regulatory regime for the business model, or any other statements about the fitness of the contracts to purpose, or their bug-free status. The audit documentation is for discussion purposes only.