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SMART CONTRACT

Security Audit Report

Project: Eyeverse

Website: https://eyeverse.world

Platform: Ethereum Language: Solidity

Date: January 13th, 2023

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THIS IS SECURITY AUDIT REPORT DOCUMENT AND WHICH MAY CONTAIN INFORMATION WHICH IS CONFIDENTIAL. WHICH INCLUDES ANY POTENTIAL VULNERABILITIES AND MALICIOUS CODES WHICH CAN BE USED TO EXPLOIT THE SOFTWARE. THIS MUST BE REFERRED INTERNALLY AND ONLY SHOULD BE MADE AVAILABLE TO THE PUBLIC AFTER ISSUES ARE RESOLVED.

Introduction

EtherAuthority was contracted by Eyeverse to perform the Security audit of the Eyeverse smart contracts code. The audit has been performed using manual analysis as well as using automated software tools. This report presents all the findings regarding the audit performed on January 13th, 2023.

The purpose of this audit was to address the following:

- Ensure that all claimed functions exist and function correctly.
- Identify any security vulnerabilities that may be present in the smart contract.

Project Background

- Eyeverse: A world of darkness and little light, a world of mystery and many realms that fight. Where the Eye Kings are superior beings with roundtables of Eye Lords. Eye Lords that lead armies of Night Watchers and Day Watchers ruling all The Watched.
- Eyeverse Contract is an NFT smart contract, having functions like burn, mint, stake, unStake, claim, etc.

Audit scope

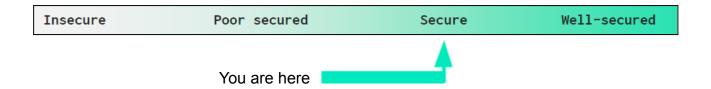
Name	Code Review and Security Analysis Report for Eyeverse System Smart Contracts	
Platform	Ethereum / Solidity	
File 1	EyeVerseWrap.sol	
File 1 MD5 Hash	B2DEEB2B298EC0BA0BF5E3B84CD056F6	
File 2	NFTStaker.sol	
File 2 MD5 Hash	D2CF4E659F6BA6AF75F80472FCDA464E	
Audit Date	January 13th, 2023	

Claimed Smart Contract Features

Claimed Feature Detail	Our Observation
File 1 EyeVerseWrap.sol Name: EyeVerseWrap Symbol: EVW Ownership Control: Owner can set a new baseURI. Owner can set a new extension.	YES, This is valid.
 Allowed Operator Control: Operator can set an approval for all addresses. Operator can approve all operator addresses. Operator can transfer a token from sender address to receiver address. 	
File 2 NFTStaker.sol Rewards Per Day: 0.000000000000000003 GS Minimum Lock Time: 1 day Ownership Control: Only the NFT owner can lock tokens. Only staker can release tokens. Owner can set a new reward Per day. Owner can set a minimum lock time.	YES, This is valid.

Audit Summary

According to the standard audit assessment, Customer's solidity smart contracts are "Secured". Also, these contracts do contain owner control, which does not make them fully decentralized.



We used various tools like Slither, Solhint and Remix IDE. At the same time this finding is based on critical analysis of the manual audit.

All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the Audit overview section. General overview is presented in AS-IS section and all identified issues can be found in the Audit overview section.

We found 0 critical, 0 high, 0 medium and 1 low and some very low level issues.

Investors Advice: Technical audit of the smart contract does not guarantee the ethical nature of the project. Any owner controlled functions should be executed by the owner with responsibility. All investors/users are advised to do their due diligence before investing in the project.

Technical Quick Stats

Main Category Subcategory		Result
Contract	Solidity version not specified	Passed
Programming	Solidity version too old	Passed
	Integer overflow/underflow	Passed
	Function input parameters lack of check	Passed
	Function input parameters check bypass	Passed
	Function access control lacks management	Passed
	Critical operation lacks event log	Passed
	Human/contract checks bypass	Passed
	Random number generation/use vulnerability	N/A
	Fallback function misuse	Passed
	Race condition	Passed
	Logical vulnerability	Passed
	Features claimed	Passed
	Other programming issues	Passed
Code	Function visibility not explicitly declared	Passed
Specification	Var. storage location not explicitly declared	Passed
	Use keywords/functions to be deprecated	Passed
	Unused code	Passed
Gas Optimization	"Out of Gas" Issue	Passed
	High consumption 'for/while' loop	Moderated
	High consumption 'storage' storage	Passed
	Assert() misuse	Passed
Business Risk	The maximum limit for mintage not set	Passed
	"Short Address" Attack	Passed
	"Double Spend" Attack	Passed

Overall Audit Result: PASSED

Code Quality

This audit scope has 2 smart contract files. Smart contracts contain Libraries, Smart

contracts, inherits and Interfaces. This is a compact and well written smart contract.

The libraries in Eyeverse Protocol are part of its logical algorithm. A library is a different

type of smart contract that contains reusable code. Once deployed on the blockchain (only

once), it is assigned a specific address and its properties / methods can be reused many

times by other contracts in the Eyeverse Protocol.

The Eyeverse team has not provided unit test scripts, which would not help to determine

the integrity of the code in an automated way.

All code parts are not well commented on smart contracts.

Documentation

We were given an Eyeverse smart contract code in the form of a goerli.etherscan.io link.

The hash of that code is mentioned above in the table.

As mentioned above, code parts are not well commented. But the logic is straightforward.

So it is easy to quickly understand the programming flow as well as complex code logic.

Comments are very helpful in understanding the overall architecture of the protocol.

Another source of information was its website: https://eyeverse.world which provided rich

information about the project architecture.

Use of Dependencies

As per our observation, the libraries are used in this smart contracts infrastructure that are

based on well known industry standard open source projects.

Apart from libraries, its functions are used in external smart contract calls.

AS-IS overview

EyeVerseWrap.sol

Functions

21 singleUnwrap write check OwnerShip New No Issue 22 multiplrUnWrap write Infinite loops possibility Refer Audit Findings	SI.	Functions	Type	Observation	Conclusion
3 onlyOwner modifier Passed No Issue 4 checkOwner internal Passed No Issue 5 renounceOwnership write access only Owner No Issue 6 transferOwnership write access only Owner No Issue 7 transferOwnership internal Passed No Issue 8 supportsInterface read Passed No Issue 9 tokenOfOwnerByIndex read Passed No Issue 10 totalSupply read Passed No Issue 11 tokenByIndex read Passed No Issue 12 beforeTokenTransfer internal Passed No Issue 13 addTokenToAllTokensEnumerati on write Passed No Issue 14 _addTokenToAllTokensEnumerati on write Passed No Issue 15 _removeTokenFromAllTokensEn write Passed No Issue 16 _removeTokenFromAllTokensEn write </th <th></th> <th>constructor</th> <th>write</th> <th>Passed</th> <th>No Issue</th>		constructor	write	Passed	No Issue
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5 renounceOwnership write access only Owner No Issue 6 transferOwnership write access only Owner No Issue 7 _transferOwnership internal Passed No Issue 8 supportsInterface read Passed No Issue 9 tokenOfOwnerByIndex read Passed No Issue 10 totalSupply read Passed No Issue 11 tokenByIndex read Passed No Issue 12 beforeTokenTransfer internal Passed No Issue 13 addTokenToOwnerEnumeration write Passed No Issue 14 _addTokenToAllTokensEnumeration write Passed No Issue 15 _removeTokenFromOwnerEnum write Passed No Issue 16 _removeTokenFromAllTokensEn write Passed No Issue 17 checkOwnerShipOld modifier Passed No Issue 18 checkOwnerShipNew	3	onlyOwner	modifier	Passed	No Issue
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7transferOwnershipinternalPassedNo Issue8supportsInterfacereadPassedNo Issue9tokenOfOwnerByIndexreadPassedNo Issue10totalSupplyreadPassedNo Issue11tokenByIndexreadPassedNo Issue12_beforeTokenTransferinternalPassedNo Issue13addTokenToOwnerEnumerationwritePassedNo Issue14_addTokenToAllTokensEnumeratiwritePassedNo Issue15_removeTokenFromOwnerEnum erationwritePassedNo Issue16_removeTokenFromAllTokensEn umerationwritePassedNo Issue17checkOwnerShipOldmodifierPassedNo Issue18checkOwnerShipNewmodifierPassedNo Issue19singleMintWrapwritecheck OwnerShip OldNo Issue20multiplrMintWrapwriteInfinite loops possibilityRefer Audit Findings21singleUnwrapwritecheck OwnerShip No IssueNo Issue22multiplrUnWrapwriteInfinite loops possibilityRefer Audit Findings	5	renounceOwnership	write	access only Owner	No Issue
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	22	multipIrUnWrap	write	-	Refer Audit
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	23	beforeTokenTransfer	internal	Passed	No Issue
24 supportsInterface read Passed No Issue					
25 setBaseURI write access only Owner No Issue					
26 setBaseExtension write access only Owner No Issue				-	
27 tokenURI read Passed No Issue	-				
28 setApprovalForAll write access only Allowed No Issue Operator Approval	28	setApprovalForAll	write	,	No Issue
29 approve write access only Allowed No Issue	29	approve	write		No Issue
Operator Approval	-	- app. 010	******	_	110 10000
30 transferFrom write access only Allowed No Issue	30	transferFrom	write		No Issue
Operator Approval				,	

31	safeTransferFrom	write	access only Allowed	No Issue
			Operator Approval	
32	safeTransferFrom	write	Passed	No Issue
33	onlyAllowedOperator	modifier	Passed	No Issue
34	onlyAllowedOperatorApproval	modifier	Passed	No Issue
35	_checkFilterOperator	internal	Passed	No Issue

NFTStaker.sol

Functions

SI.	Functions	Type	Observation	Conclusion
1	constructor	write	Passed	No Issue
2	owner	read	Passed	No Issue
3	onlyOwner	modifier	Passed	No Issue
4	_checkOwner	internal	Passed	No Issue
5	renounceOwnership	write	access only Owner	No Issue
6	transferOwnership	write	access only Owner	No Issue
7	_transferOwnership	internal	Passed	No Issue
8	setMinimumLockTime	external	access only Owner	No Issue
9	stake	write	Infinite loops	Refer Audit
			possibility	Findings
10	multipleStake	write	Passed	No Issue
11	unStake	write	Infinite loops	Refer Audit
			possibility	Findings
12	multipleUnStake	write	Passed	No Issue
13	calculateDays	read	Passed	No Issue
14	getReward	read	Passed	No Issue
15	setRewardPerDay	external	access only Owner	No Issue
16	claim	write	Passed	No Issue

Severity Definitions

Risk Level	Description
Critical vulnerabilities are usually straightforward to expland can lead to token loss etc.	
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial
Medium Medium-level vulnerabilities are important to fix; however, they can't lead to tokens loss	
Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution	
Lowest / Code Style / Best Practice	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.

Audit Findings

Critical Severity

No critical severity vulnerabilities were found.

High Severity

No high severity vulnerabilities were found.

Medium

No medium severity vulnerabilities were found.

Low

(1) Infinite loops possibility:

EyeVerseWrap.sol

```
function multiplrMintWrap(uint[] memory tokenId) public {
    uint i;
    for(i = 0; i < tokenId.length; i++ ){
        singleMintWrap(tokenId[i]);
    }
}

function multiplrUnWrap(uint[] memory tokenId) public {
    uint i;
    for(i = 0; i < tokenId.length; i++ ){
        singleUnwrap(tokenId[i]);
    }
}</pre>
```

NFTStaker.sol

```
function multipleStake(uint[] memory tokenId) public {
    uint i;
    for(i = 0; i < tokenId.length; i++){
        stake(tokenId[i]);
     }
}

function multipleUnStake(uint[] memory tokenId) public {
    uint i;
    for(i = 0; i < tokenId.length; i++){
        unStake(tokenId[i]);
     }
}</pre>
```

As array elements will increase, then it will cost more and more gas. And eventually, it will stop all the functionality. After several hundreds of transactions, all those functions depending on it will stop. We suggest avoiding loops. For example, use mapping to store the array index. And query that data directly, instead of looping through all the elements to find an element.

EyeVerseWrap.sol

- multiplrMintWrap() tokenId.length.
- multiplrUnWrap() tokenId.length.

NFTStaker.sol

- multipleStake() tokenId.length.
- multipleUnStake() tokenId.length.

Resolution: Adjust logic to replace loops with mapping or other code structure.

Very Low / Informational / Best practices:

(1) Spelling mistake: **NFTStaker.sol**

Spelling mistake in constructor comments.

"CHNGE" word should be "CHANGE".

Resolution: Correct the spelling.

(2) Immutable variables:

```
contract NFTStaker is Ownable {
    GoldenSlags public rewardToken;
    ERC721 public nftToken;
    uint public rewardsPerDay = 3;
    uint public MinimumLockTime = 1 days;

    // Maps token IDs to the time when they were locked.
    manning(uint256 => uint256) public lockedAt;
```

```
contract EyeVerseWrap is ERC721Enumerable, Ownable, DefaultOperatorFilterer {
   using Strings for uint256;
   string public baseURI;
   string public baseExtension = ".json";
   ERC721A oldContract;
```

Some variables are set only in the constructor and then remain unchanged. So those can be defined as immutable.

Variables are:

NFTStaker.sol

- rewardToken
- nftToken

EyeVerseWrap.sol

oldContract

Resolution: We suggest defining these variables as immutable.

Centralization

This smart contract has some functions which can be executed by the Admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble. Following are Admin functions:

EyeVerseWrap.sol

- singleMintWrap: Old NFT token owner can wrap new token.
- singleUnwrap: New NFT token owner can unwrap old token.
- setBaseURI: EyeVerseWrap owner can set a new base URI.
- setBaseExtension: EyeVerseWrap owner can set a new base extension.
- setApprovalForAll: EyeVerseWrap Operator can set an approval for all addresses.

NFTStaker.sol

- setRewardPerDay: NFTStaker owner can set rewards per day.
- setMinimumLockTime: NFTStaker owner can set minimum lock time for unstake.

To make the smart contract 100% decentralized, we suggest renouncing ownership in the smart contract once its function is completed.

Conclusion

We were given a contract code in the form of a goerli.etherscan.io link. And we have used all possible tests based on given objects as files. We have not observed any major issue in the smart contracts. So smart contracts are good to go for the mainnet deployment.

Since possible test cases can be unlimited for such smart contracts protocol, we provide no such guarantee of future outcomes. We have used all the latest static tools and manual observations to cover maximum possible test cases to scan everything.

Smart contracts within the scope were manually reviewed and analyzed with static analysis tools. Smart Contract's high-level description of functionality was presented in the As-is overview section of the report.

Audit report contains all found security vulnerabilities and other issues in the reviewed code.

Security state of the reviewed contract, based on standard audit procedure scope, is "Secure".

Our Methodology

We like to work with a transparent process and make our reviews a collaborative effort.

The goals of our security audits are to improve the quality of systems we review and aim

for sufficient remediation to help protect users. The following is the methodology we use in

our security audit process.

Manual Code Review:

In manually reviewing all of the code, we look for any potential issues with code logic, error

handling, protocol and header parsing, cryptographic errors, and random number

generators. We also watch for areas where more defensive programming could reduce the

risk of future mistakes and speed up future audits. Although our primary focus is on the

in-scope code, we examine dependency code and behavior when it is relevant to a

particular line of investigation.

Vulnerability Analysis:

Our audit techniques included manual code analysis, user interface interaction, and

whitebox penetration testing. We look at the project's web site to get a high level

understanding of what functionality the software under review provides. We then meet with

the developers to gain an appreciation of their vision of the software. We install and use

the relevant software, exploring the user interactions and roles. While we do this, we

brainstorm threat models and attack surfaces. We read design documentation, review

other audit results, search for similar projects, examine source code dependencies, skim

open issue tickets, and generally investigate details other than the implementation.

Documenting Results:

We follow a conservative, transparent process for analyzing potential security vulnerabilities and seeing them through successful remediation. Whenever a potential issue is discovered, we immediately create an Issue entry for it in this document, even though we have not yet verified the feasibility and impact of the issue. This process is conservative because we document our suspicions early even if they are later shown to not represent exploitable vulnerabilities. We generally follow a process of first documenting the suspicion with unresolved questions, then confirming the issue through code analysis, live experimentation, or automated tests. Code analysis is the most tentative, and we strive to provide test code, log captures, or screenshots demonstrating our confirmation. After this we analyze the feasibility of an attack in a live system.

Suggested Solutions:

We search for immediate mitigations that live deployments can take, and finally we suggest the requirements for remediation engineering for future releases. The mitigation and remediation recommendations should be scrutinized by the developers and deployment engineers, and successful mitigation and remediation is an ongoing collaborative process after we deliver our report, and before the details are made public.

Disclaimers

EtherAuthority.io Disclaimer

EtherAuthority team has analyzed this smart contract in accordance with the best industry practices at the date of this report, in relation to: cybersecurity vulnerabilities and issues in smart contract source code, the details of which are disclosed in this report, (Source Code); the Source Code compilation, deployment and functionality (performing the intended functions).

Due to the fact that the total number of test cases are unlimited, the audit makes no statements or warranties on security of the code. It also cannot be considered as a sufficient assessment regarding the utility and safety of the code, bugfree status or any other statements of the contract. While we have done our best in conducting the analysis and producing this report, it is important to note that you should not rely on this report only. We also suggest conducting a bug bounty program to confirm the high level of security of this smart contract.

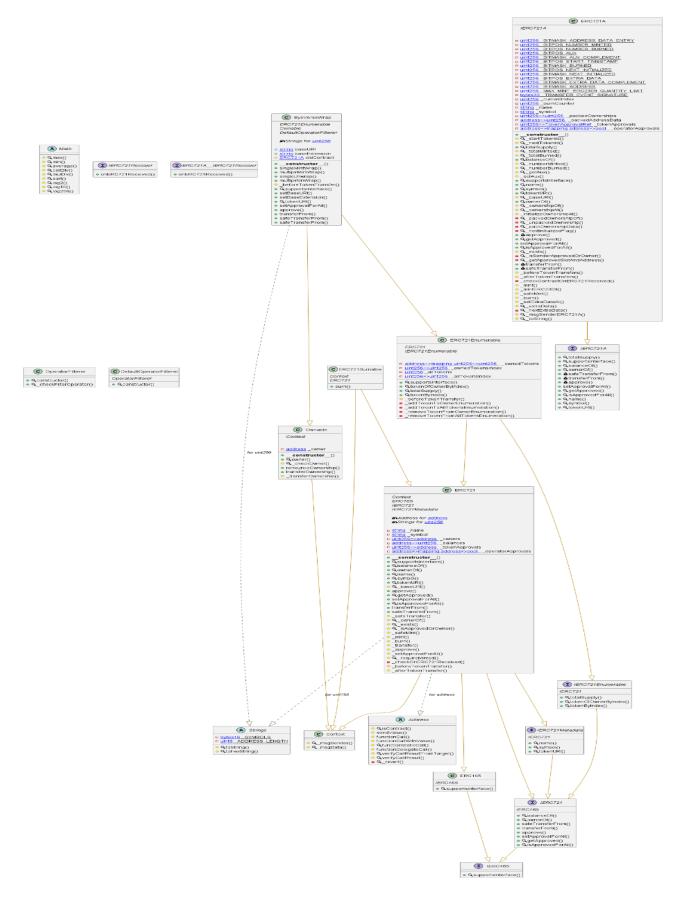
Technical Disclaimer

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have their own vulnerabilities that can lead to hacks. Thus, the audit can't guarantee explicit security of the audited smart contracts.

Appendix

Code Flow Diagram - Eyeverse Protocol

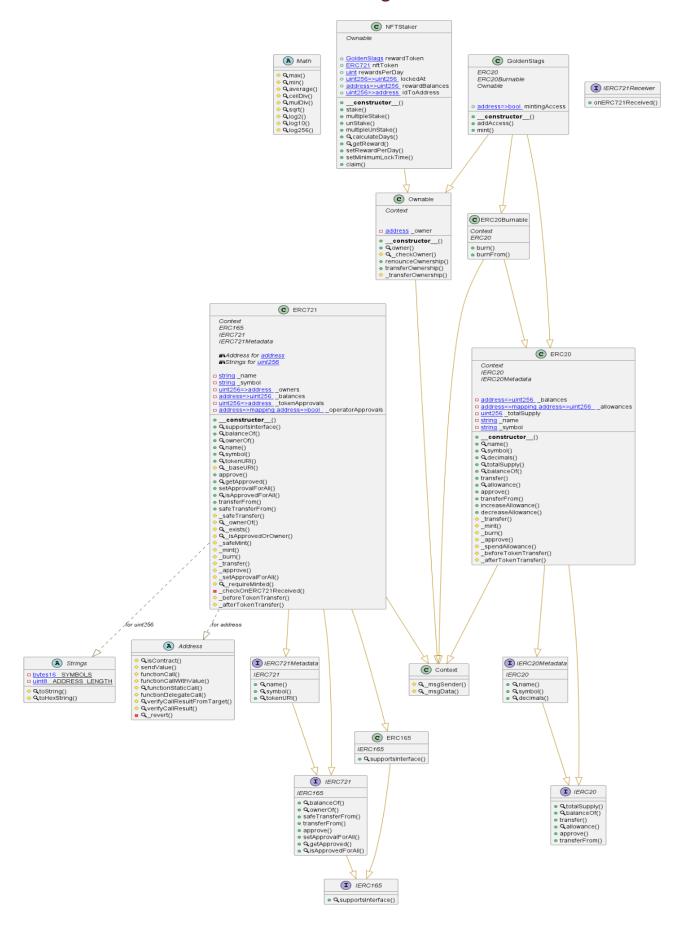
EyeVerseWrap Diagram



This is a private and confidential document. No part of this document should be disclosed to third party without prior written permission of EtherAuthority.

Email: audit@EtherAuthority.io

NFTStaker Diagram



This is a private and confidential document. No part of this document should be disclosed to third party without prior written permission of EtherAuthority.

Slither Results Log

Slither Log >> EyeVerseWrap.sol

```
EyeVerseWrap.checkOwmerShipOld(uint256) (EyeVerseWrap.sol#1620-1626) has external calls inside a loop: require(bool,string)(old contract.ownerOf(_tokenId) == msg.sender,You are not the owner of this NFT) (EyeVerseWrap.sol#1621-1624)
EyeVerseWrap.singleMintWrap(uint256) (EyeVerseWrap.sol#1637-1650) has external calls inside a loop: oldContract.transferFrom(ms g.sender,address(this),tokenId) (EyeVerseWrap.sol#1639)
ENC721._checkOnERC721Received(address,address,uint256,bytes) (EyeVerseWrap.sol#751-772) has external calls inside a loop: IERC7 21Received(mgsGender(),from,tokenId,data) (EyeVerseWrap.sol#758-768)
EyeVerseWrap.singleMintWrap(uint256) (EyeVerseWrap.sol#1637-1650) has external calls inside a loop: oldContract.transferFrom(ms g.sender,address(this),tokenId) (EyeVerseWrap.sol#1647)
EyeVerseWrap.singleUnwrap(uint256) (EyeVerseWrap.sol#1659-1666) has external calls inside a loop: require(bool,string)(oldContract.ownerOf(_tokenId) == address(this),Contract doesn't have this token) (EyeVerseWrap.sol#1660-1663)
EyeVerseWrap.singleUnwrap(uint256) (EyeVerseWrap.sol#1659-1666) has external calls inside a loop: oldContract.safeTransferFrom(address(this),msg.sender,_tokenId) (EyeVerseWrap.sol#1665)
EyeVerseWrap.singleUnwrap(uint256) (EyeVerseWrap.sol#1665)
EyeFerence: https://github.com/crytic/slither/wiki/Detector-Documentation/#calls-inside-a-loop
 Reentrancy in EyeVerseWrap.singleMintWrap(uint256) (EyeVerseWrap.sol#1637-1650)
External calls:
 External calls:
- oldContract.transferFrom(msg.sender,address(this),tokenId) (EyeVerseWrap.sol#1639)
- _safeMint(msg.sender,tokenId) (EyeVerseWrap.sol#1640)
- IERC721Receiver(to).onERC721Received(_msgSender(),from,tokenId,data) (EyeVerseWrap.sol#758-768)
Event emitted after the call(s):
- Transfer(address(0),to,tokenId) (EyeVerseWrap.sol#683)
- _safeMint(msg.sender,tokenId) (EyeVerseWrap.sol#1640)

Reentrancy in EyeVerseWrap.singleMintWrap(uint256) (EyeVerseWrap.sol#1637-1650):
External calls:
- oldContract transferErom(msg.sender.address(this),tokenId) (EyeVerseWrap.sol#1647)
  external catts:
- oldContract.transferFrom(msg.sender,address(this),tokenId) (EyeVerseWrap.sol#1647)
Event emitted after the call(s):
- Transfer(from,to,tokenId) (EyeVerseWrap.sol#727)
- _transfer(address(this),msg.sender,tokenId) (EyeVerseWrap.sol#1648)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3
   ERC721Enumerable._removeTokenFromAllTokensEnumeration(uint256) (EyeVerseWrap.sol#1594-1606) has costly operations inside a loop
   .
- delete _allTokensIndex[tokenId] (EyeVerseWrap.sol#1604)
ERC721Enumerable._removeTokenFromAllTokensEnumeration(uint256) (EyeVerseWrap.sol#1594-1606) has costly operations inside a loop
   .
- _allTokens.pop() (EyeVerseWrap.sol#1605)
ERC721Enumerable._removeTokenFromOwnerEnumeration(address,uint256) (EyeVerseWrap.sol#1578-1592) has costly operations inside a
  - delete _ownedTokensIndex[tokenId] (EyeVerseWrap.sol#1590)

ERC721._transfer(address,address,uint256) (EyeVerseWrap.sol#707-730) has costly operations inside a loop:
- delete _tokenApprovals[tokenId] (EyeVerseWrap.sol#719)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop
   Pragma version^0.8.0 (EyeVerseWrap.sol#2) allows old versions
solc-0.8.0 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
  ERC721A. MAX MINT_ERC2309_QUANTITY_LIMIT (EyeVerseWrap.sol#992) is never used in ERC721A (EyeVerseWrap.sol#962-1512)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable
ERC721A._name (EyeVerseWrap.sol#1002) should be immutable
ERC721A._symbol (EyeVerseWrap.sol#1004) should be immutable
EyeVerseWrap.oldContract (EyeVerseWrap.sol#1613) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
EyeVerseWrap.sol analyzed (21 contracts with 84 detectors), 114 result(s) found
```

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Slither Log >> NFTStaker.sol

```
NFTStaker.stake(uint256) (NFTStaker.sol#1046-1054) has external calls inside a loop: require(bool,string)(nftToken.owner0f(_tok
enId) == msg.sender,Only the NFT owner can lock tokens.) (NFTStaker.sol#1047-1050)
NFTStaker.stake(uint256) (NFTStaker.sol#1046-1054) has external calls inside a loop: nftToken.transferFrom(msg.sender,address(t
  NFTStaker.sake(utint236) (NFTStaker.sol#1040-1034) has externat catts this toe a toop. Introken.transferFrom(msg.sender,address(this), tokenId) (NFTStaker.sol#1051)
NFTStaker.unStake(uint256) (NFTStaker.sol#1062-1076) has external calls inside a loop: nftToken.transferFrom(address(this), msg. sender,_tokenId) (NFTStaker.sol#1067)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation/#calls-inside-a-loop
   Variable 'ERC721._checkOnERC721Received(address,address,uint256,bytes).retval (NFTStaker.sol#718)' in ERC721._checkOnERC721Received(address,address,uint256,bytes) (NFTStaker.sol#711-732) potentially used before declaration: retval == IERC721Receiver.onER C721Received.selector (NFTStaker.sol#719)
Variable 'ERC721._checkOnERC721Received(address,address,uint256,bytes).reason (NFTStaker.sol#720)' in ERC721._checkOnERC721Received(address,address,uint256,bytes) (NFTStaker.sol#720)' in ERC721._checkOnERC721Received(address,address,address,address,uint256,bytes) (NFTStaker.sol#711-732) potentially used before declaration: reason.length == 0 (NFTStaker.sol#720)'
  tved_address_address_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_tothess_t
   Reentrancy in NFTStaker.stake(uint256) (NFTStaker.sol#1046-1054):
External calls:
 - nftToken.transferFrom(msg.sender,address(this),_tokenId) (NFTStaker.sol#1051)
State variables written after the call(s):
- idToAddress[_tokenId] = msg.sender (NFTStaker.sol#1052)
- lockedAt[_tokenId] = block.timestamp (NFTStaker.sol#1053)
Reentrancy in NFTStaker.unStake(uint256) (NFTStaker.sol#1062-1076):
External calls:
aftToken.transferErem(address(this) msg.sender_tokenId) (NETStaker.sol#1067)
  - nftToken.transferFrom(address(this),msg.sender,_tokenId) (NFTStaker.sol#1067)
State variables written after the call(s):
- delete lockedAt[_tokenId] (NFTStaker.sol#1075)
- rewardBalances[msg.sender] += reward (NFTStaker.sol#1072)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-2
Dangerous comparisons:
- block.timestamp >= (lockedAt[_tokenId] + 86400) (NFTStaker.sol#1069)
NFTStaker.claim() (NFTStaker.sol#1097-1103) uses timestamp for comparisons
Dangerous comparisons:
- require(bool,string)(rewardBalances[msg.sender] != 0,You Don't have any rewards.) (NFTStaker.sol#1098)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp
 Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp

Math.mulDiv(uint256,uint256) (NFTStaker.sol#26-79) uses assembly

- INLINE ASM (NFTStaker.sol#34-38)

- INLINE ASM (NFTStaker.sol#34-53)

- INLINE ASM (NFTStaker.sol#48-53)

- INLINE ASM (NFTStaker.sol#249-250)

- INLINE ASM (NFTStaker.sol#249-251)

- INLINE ASM (NFTStaker.sol#249-251)

- INLINE ASM (NFTStaker.sol#385-394) uses assembly

- INLINE ASM (NFTStaker.sol#385-394) uses assembly

- INLINE ASM (NFTStaker.sol#387-390)

ERC721._checkOnERC721Received(address,address,uint256,bytes) (NFTStaker.sol#711-732) uses assembly

- INLINE ASM (NFTStaker.sol#324-726)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage
 NFTStaker.unStake(uint256) (NFTStaker.sol#1062-1076) has costly operations inside a loop:
- delete idToAddress[_tokenId] (NFTStaker.sol#1074)
NFTStaker.unStake(uint256) (NFTStaker.sol#1062-1076) has costly operations inside a loop:
- delete lockedAt[_tokenId] (NFTStaker.sol#1075)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop
  Pragma version^0.8.0 (NFTStaker.sol#2) allows old versions
solc-0.8.0 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
Parameter GoldenSlags.addAccess(address)._accessor (NFTStaker.sol#1019) is not in mixedCase
Parameter NFTStaker.stake(uint256)._tokenId (NFTStaker.sol#1046) is not in mixedCase
Parameter NFTStaker.unStake(uint256)._tokenId (NFTStaker.sol#1062) is not in mixedCase
Parameter NFTStaker.setRewardPerDay(uint256)._reward (NFTStaker.sol#1093) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
 ERC721._name (NFTStaker.sol#482) should be immutable ERC721. symbol (NFTStaker.sol#484) should be immutable NFTStaker.nftToken (NFTStaker.sol#1031) should be immutable NFTStaker.rewardToken (NFTStaker.sol#1030) should be immutable
 Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable NFTStaker.sol analyzed (17 contracts with 84 detectors), 73 result(s) found
```

Solidity Static Analysis

EyeVerseWrap.sol

Security

Check-effects-interaction:

Potential violation of Checks-Effects-Interaction pattern in EyeVerseWrap.singleMintWrap(uint256): Could potentially lead to re-entrancy vulnerability. Note: Modifiers are currently not considered by this static analysis.

Pos: 1600:4:

Inline assembly:

The Contract uses inline assembly, this is only advised in rare cases. Additionally static analysis modules do not parse inline Assembly, this can lead to wrong analysis results.

more

Pos: 1404:8:

Gas & Economy

Gas costs:

Gas requirement of function EyeVerseWrap.multiplrMintWrap is infinite: If the gas requirement of a function is higher than the block gas limit, it cannot be executed. Please avoid loops in your functions or actions that modify large areas of storage (this includes clearing or copying arrays in storage)

Pos: 1613:4:

Gas costs:

Gas requirement of function EyeVerseWrap.multiplrUnWrap is infinite: If the gas requirement of a function is higher than the block gas limit, it cannot be executed. Please avoid loops in your functions or actions that modify large areas of storage (this includes clearing or copying arrays in storage)

Pos: 1626:4:

For loop over dynamic array:

Loops that do not have a fixed number of iterations, for example, loops that depend on storage values, have to be used carefully. Due to the block gas limit, transactions can only consume a certain amount of gas. The number of iterations in a loop can grow beyond the block gas limit which can cause the complete contract to be stalled at a certain point. Additionally, using unbounded loops incurs in a lot of avoidable gas costs. Carefully test how many items at maximum you can pass to such functions to make it successful.

more

Pos: 1615:8:

For loop over dynamic array:

Loops that do not have a fixed number of iterations, for example, loops that depend on storage values, have to be used carefully. Due to the block gas limit, transactions can only consume a certain amount of gas. The number of iterations in a loop can grow beyond the block gas limit which can cause the complete contract to be stalled at a certain point. Additionally, using unbounded loops incurs in a lot of avoidable gas costs. Carefully test how many items at maximum you can pass to such functions to make it successful.

more

Pos: 1628:8:

Miscellaneous

Constant/View/Pure functions:

EyeVerseWrap._beforeTokenTransfer(address,address,uint256,uint256): Potentially should be constant/view/pure but is not. Note: Modifiers are currently not considered by this static analysis.

<u>more</u>

Pos: 1634:4:

Similar variable names:

ERC721Enumerable.tokenOfOwnerByIndex(address,uint256): Variables have very similar names "_owners" and "owner". Note: Modifiers are currently not considered by this static analysis.

Pos: 1489:28:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

<u>more</u>

Pos: 1670:8:

Delete from dynamic array:

Using "delete" on an array leaves a gap. The length of the array remains the same. If you want to remove the empty position you need to shift items manually and update the "length" property.

more

Pos: 1564:8:

NFTStaker.sol

Security

Check-effects-interaction:

Potential violation of Checks-Effects-Interaction pattern in

NFTStaker.unStake(uint256): Could potentially lead to re-entrancy vulnerability.

Note: Modifiers are currently not considered by this static analysis.

<u>more</u>

Pos: 1062:4:

Block timestamp:

Use of "block.timestamp": "block.timestamp" can be influenced by miners to a certain degree. That means that a miner can "choose" the block.timestamp, to a certain degree, to change the outcome of a transaction in the mined block.

<u>more</u>

Pos: 1086:17:

Gas & Economy

Gas costs:

Gas requirement of function NFTStaker.multipleStake is infinite: If the gas requirement of a function is higher than the block gas limit, it cannot be executed. Please avoid loops in your functions or actions that modify large areas of storage (this includes clearing or copying arrays in storage)

Pos: 1056:4:

Gas costs:

Gas requirement of function NFTStaker.multipleUnStake is infinite: If the gas requirement of a function is higher than the block gas limit, it cannot be executed. Please avoid loops in your functions or actions that modify large areas of storage (this includes clearing or copying arrays in storage)

Pos: 1078:4:

For loop over dynamic array:

Loops that do not have a fixed number of iterations, for example, loops that depend on storage values, have to be used carefully. Due to the block gas limit, transactions can only consume a certain amount of gas. The number of iterations in a loop can grow beyond the block gas limit which can cause the complete contract to be stalled at a certain point. Additionally, using unbounded loops incurs in a lot of avoidable gas costs. Carefully test how many items at maximum you can pass to such functions to make it successful.

more

Pos: 1058:8:

For loop over dynamic array:

Loops that do not have a fixed number of iterations, for example, loops that depend on storage values, have to be used carefully. Due to the block gas limit, transactions can only consume a certain amount of gas. The number of iterations in a loop can grow beyond the block gas limit which can cause the complete contract to be stalled at a certain point. Additionally, using unbounded loops incurs in a lot of avoidable gas costs. Carefully test how many items at maximum you can pass to such functions to make it successful.

<u>more</u>

Pos: 1080:8:

Miscellaneous

Constant/View/Pure functions:

ERC20._afterTokenTransfer(address,address,uint256): Potentially should be constant/view/pure but is not. Note: Modifiers are currently not considered by this static analysis.

more

Pos: 990:4:

Similar variable names:

ERC20Burnable.burnFrom(address,uint256): Variables have very similar names "account" and "amount". Note: Modifiers are currently not considered by this static analysis.

Pos: 1005:23:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

<u>more</u>

Pos: 1098:8:

Delete from dynamic array:

Using "delete" on an array leaves a gap. The length of the array remains the same. If you want to remove the empty position you need to shift items manually and update the "length" property.

more

Pos: 1075:8:

Data truncated:

Division of integer values yields an integer value again. That means e.g. 10 / 100 = 0 instead of 0.1 since the result is an integer again. This does not hold for division of (only) literal values since those yield rational constants.

Pos: 1086:16:

Solhint Linter

EyeVerseWrap.sol

```
EyeVerseWrap.sol:1280:18: Error: Parse error: missing ';' at '{'
EyeVerseWrap.sol:1302:18: Error: Parse error: missing ';' at '{'
EyeVerseWrap.sol:1308:69: Error: Parse error: mismatched input '('
expecting {';', '='}
EyeVerseWrap.sol:1334:106: Error: Parse error: mismatched input '('
expecting {';', '='}
EyeVerseWrap.sol:1345:18: Error: Parse error: missing ';' at '{'
EyeVerseWrap.sol:1363:48: Error: Parse error: mismatched input ';'
expecting '('
EyeVerseWrap.sol:1366:18: Error: Parse error: missing ';' at '{'
EyeVerseWrap.sol:1374:67: Error: Parse error: mismatched input '('
expecting {';', '='}
```

NFTStaker.sol

```
NFTStaker.sol:245:18: Error: Parse error: missing ';' at '{'
NFTStaker.sol:265:18: Error: Parse error: missing ';' at '{'
NFTStaker.sol:637:18: Error: Parse error: missing ';' at '{'
NFTStaker.sol:657:18: Error: Parse error: missing ';' at '{'
NFTStaker.sol:681:18: Error: Parse error: missing ';' at '{'
NFTStaker.sol:898:18: Error: Parse error: missing ';' at '{'
NFTStaker.sol:917:18: Error: Parse error: missing ';' at '{'
NFTStaker.sol:933:18: Error: Parse error: missing ';' at '{'
NFTStaker.sol:948:18: Error: Parse error: missing ';' at '{'
NFTStaker.sol:978:22: Error: Parse error: missing ';' at '{'
NFTStaker.sol:978:22: Error: Parse error: missing ';' at '{'
```

Software analysis result:

These software reported many false positive results and some are informational issues. So, those issues can be safely ignored.

