Smart Contract Code and Web Front-End

Review, Testing and Audit

Project: **EMPOWER NFT**
Launch Date: **OCTOBER 21, 2022**
Audit Date: **OCTOBER 20, 2022**

- Confidentiality

This audit report may contain confidential information about blockchain systems and the intellectual property of the Developer/s and its Owner/s, as well as information about potential vulnerabilities and methods of their exploitation. The report can be disclosed publicly after prior consent by another Party. Any subsequent publication of this report shall be without mandatory consent.

- Document

Project Name	***Empower NFT***
Launch Date	***October 21, 2022***
Audit Date	***October 20, 2022***
Project Type	***ROI Investment***
Network	***BSC***
Website	***https://empowernft.net/***
Smart Contracts	***https://bscscan.com/address/0x98e8a3420A857C712aC33990C0B07352217965D0#code***
Twitter	***N/a***
Telegram	***https://t.me/empowernft***
Approved By	***Encrypto John***

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- Encrypto Findings

Front End

- Basic web UI design.
- All buttons and inputs are fully functional and clickable.
- Mobile responsive.
- Summary:

  By checking and manually testing of all buttons functionality and other features of Empower NFT's website, The EnCrypto Team for Front End Web Design found no malicious and blank contents from it.

Smart contract

- Contract Creator

https://bscscan.com/address/0xa583d93a96a129c83c95ab6f95adc0a32a04b4cd

- Compiler Version: v0.8.13+commit.abaa5c0e
- Contract Source Code: Solidity
- Audit: Passed
- Summary:

  As per issues for the auditing review, the owner/developer was using a NFT token as proof of investment on the system, owner privilege problems found . By final checking and manually code reading of the Empower NFT's Smart Contracts, the EnCrypto Team found 2 malicious contents; retire function which transfers contract balance to the owner's account, transfer token from address to owner's address.

- Severity Rate

- Severity Definitions

Critical	High	Medium	Low
Vulnerabilities and issues that are very high prone to be exploited that may result to serious asset loss and at worst case technical and personal data manipulations.	Vulnerabilities and issues that are difficult to be handled, it allows the smart contract to execute by-passes and public accessibility to crucial functions.	Vulnerabilities and issues that needs minimal customization and modification of codes in the smart contract that needs to be fixed as soon as possible not to cause any asset loss.	Vulnerabilities and issues that may not affect directly to the smart contract but can cause high severity, low functionality and overall execution lags on the smart contract itself.

- Soccer busd Severity Overview

Critical	High	Medium	Low
- Critical Warning: Can transfer funds and token from contract and addresses to the owner (retireBUSDContractBalance) (withdrawToken)	- Investors/users cannot withdraw its primary capital investment when it was already deposited. Returns/Profit will be on dividends and referrals. - Blacklisting and unBlacklisting of investors/users - 15% Referral Rewards will be directly transferred to dev3wallet if not used.	- NFT Token was used in the system as proof of investment. - Pause and unPause Contract	- Smart Contract Name differ from Project Name.

- Owner Ability Script

  - Blacklist and Unblacklist investor's/user's address

    (blacklistAddress / unBlacklistAddress)

  - Pause and Unpause Contract

    (pause / unpause)

  - Transfer Approval for all

    (setApprovalForAll)

  - Renounce the Smart Contract.
  - Transfer the smart contract to the new owner.
  - Critical Functions:
  - retireBUSDContractBalance
  - withdrawToken

- User Ability Script

    - Deposit (buyNft)
    - Claim all Rewards at once
    - Claim Rewards (Daily Based)
    - safeTransferFrom (Basic)
    - safeTransferFrom (By Data)
    - transferFrom
    - Approve Transfer (approve)

- Project Details

Empower NFT Description

- Empower NFT is a BUSD Reward Pool DApp that owns a NFT Token to circulate and mint into its own Reward Pool System.
- Empower NFT is a BUSD Reward Pool with a minimum investment deposit/plan of 100 BUSD and maximum investment plan of 50,000 BUSD that gives a fixed 0.7% Daily Yield for a fixed 286 days of duration plan.
- Empower NFT has 9 investment plans that can be use.

Developers Fee

- Deposit Fee (10%)

Deposit (BUSD) / Buy NFT

- Empower NFT has 9 plans that can be bought or used
- Minimum Deposit/NFT cost 100 BUSD
- Maximum Deposit/NFT cost 50,000 BUSD

Plans Available:
ENFT100 - 100 BUSD
ENFT250 - 200 BUSD
ENFT500 - 500 BUSD
ENFT1000 - 1,000 BUSD
ENFT2500 - 2,500 BUSD
ENFT5000 - 5,000 BUSD
ENFT10000 - 10,000 BUSD
ENFT25000 - 25,000 BUSD
ENFT50000 - 50,000 BUSD

Anti-Whale Feature

- Empower NFT feature wherein developers can block any whale investors/user from buying more than required NFT on the system.
- This function (blacklistAddress) was designed to prevent multiple high valued NFT in one address and to eliminate self-referrals.

Market Crash Prevention Feature

- Empower NFT feature wherein developers can pause and continue the transaction of the contract when there are a potential market crash.

NFT Feature

- NFT is automatically minted when new deposit/order was created.
- NFT was use as proof of investment
- Can be transferred as it was approved by the NFT owner and operator.

Withdrawal (Claim)

- No fees deducted on claiming of rewards
- ENFT100 plan can only claim weekly
- All Plan can claim everyday
- Claiming of rewards stops at the end of duration date (286 days) total of 200% ROI

Referral System

- Empower NFT offers 15% of passive commission on every referral made
- Level 1 (10%)
- Level 2 (5%)
- Not required

SWC Registry

Smart Contract Weakness Classification

The following table contains an overview of the SWC registry. Each row consists of an SWC identifier (ID), weakness title.

SWC - 100	Function Default Visibility	***Passed***
SWC – 101	Integer Overflow and Underflow	***Passed***
SWC – 102	Outdated Compiler Version	***Passed***
SWC – 103	Floating Pragma	***Passed***
SWC – 104	Unchecked Call Return Value	***Passed***
SWC – 105	Unprotected Ether Withdrawal	***Passed***
SWC – 106	Unprotected SELFDESTRUCT Instruction	***Passed***
SWC – 107	Reentrancy	***Passed***
SWC – 108	State Variable Default Visibility	***Passed***
SWC – 109	Uninitialized Storage Pointer	***Passed***
SWC – 110	Assert Violation	***Passed***
SWC – 111	Use of Deprecated Solidity Functions	***Passed***
SWC – 112	Delegate call to Untrusted Callee	***Passed***
SWC – 113	DoS with Failed Call	***Passed***
SWC – 114	Transaction Order Dependence	***Passed***
SWC – 115	Authorization through tx.origin	***Passed***
SWC – 116	Block values as a proxy for time	***Passed***
SWC – 117	Signature Malleability	***Passed***
SWC - 118	Incorrect Constructor Name	***Passed***
SWC – 119	Shadowing State Variables	***Passed***
SWC - 120	Weak Sources of Randomness from Chain Attributes	***Passed***

Disclaimer

EnCrypto Team was only able to review the front-end/web design of the project and audit the Smart Contract itself. Team for the front-end/web design review was only able to check it based on its functionality and web aesthetics. On the side of Smart Contract, audits are analyzed, reviewed, and checked based on quality assurance and accordance to the best industrial standard practices of smart contract creation.

Audits does not guarantee any profit and loss but as an Auditors we will do our best to deliver secured projects. We the EnCrypto Team suggests and encourages all investors and users to "DYOR" Do-Your-Own-Research to avoid any scams and capital loss. Any loss and at worst bankruptcy are not our Team's fault.