





Project: LinkDao Staking

Website: https://linkdao.network/

BlockSAFU Score:

49

Contract Address:

0x80B36416c523785F2C3B15Fbc537542374E5F378 0x43160523BF9c4CFA30D1d9e87Ded50fB362580e5

Disclamer: BlockSAFU is not responsible for any financial losses.

Nothing in this contract audit is financial advice, please do your own reasearch.

DISCLAMER

BlockSAFU has completed this report to provide a summary of the Smart Contract functions, and any security, dependency, or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as of this report's date. To understand the full scope of our analysis, it is vital for you to at the date of this report. To understand the full scope of our analysis, you need to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against BlockSAFU or its Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

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ABOUT THE AUDITOR:

BlockSAFU (BSAFU) is an Anti-Scam Token Utility that reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity. BlockSAFUs Development Team consists of several Smart Contract creators, Auditors Developers, and Blockchain experts. BlockSAFU provides solutions, prevents, and hunts down scammers. BSAFU is a utility token with features Audit, KYC, Token Generators, and Bounty Scammers. It will enrich the crypto ecosystem.



OVERVIEW

BlockSAFU was commissioned by LinkDao to complete a Smart Contract audit. The objective of the Audit is to achieve the following:

- Review the Project and experience and Development team
- Ensure that the Smart Contract functions are necessary and operate as intended.
- Identify any vulnerabilities in the Smart Contract code.

DISCLAIMER: This Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or provide financial advice in any way, all investments are made at your own risk. (https://blocksafu.com/)

SMART CONTRACT REVIEW

Token Name	LinkDaoRecurring_V24
Туре	Staking Contract
Contract Address	0x80B36416c523785F2C3B15Fbc537542374E5F378
	0x43160523BF9c4CFA30D1d9e87Ded50fB362580e5
Deployer Address	0x7ab8B73FCd3AbB89F99d96694fa7701D2a83Ce34
Owner Address	0x7ab8B73FCd3AbB89F99d96694fa7701D2a83Ce34
Stake	0%
Unstake	0%
Gas Used for Buy	will be updated after the DEX listing
Gas Used for Sell	will be updated after the DEX listing
Contract Created	Aug-23-2022 08:07:58 AM +UTC
Initial Liquidity	will be updated after the DEX listing
Liquidity Status	Locked
Unlocked Date	will be updated after the DEX listing
Verified CA	Yes
Compiler	v0.8.15+commit.e14f2714
Optimization	No with 200 runs
Sol License	MIT License
Top 5 Holders	will be updated after the DEX listing
Other	default evmVersion

TAX

Stake Fee	0%	Unstake Fee	0%
Stake Fee	070	Olistake ree	070



OVERVIEW

Fees

- Stake 0%.
- Unstake 0%.

Team Review

The LinkDao team has a nice website, their website is professionally built and the Smart contract is well developed, their social media is growing with over 36,304 people in their telegram group (count in audit date).

Official Website And Social Media

Website: https://linkdao.network/

Telegram Group: https://t.me/linkdao_network

Twitter: https://twitter.com/LinkdaoN

MANUAL CODE REVIEW

Minor-risk

0 minor-risk code issue found

Could be fixed, and will not bring problems.

Medium-risk

0 medium-risk code issues found

Should be fixed, could bring problems.

High-Risk

2 high-risk code issues found

Must be fixed, and will bring problem.

1. Owner can withdraw LinkDao Token more than total staking!

```
function withdrawLKD(uint256 _amount) external onlyOwner{
   IERC20(LINKDAO_TOKEN_ADDRESS).safeTransfer(msg.sender,_amount);
}
```

2. Owner can change token address used for staking anytime

```
function setLinkDaoToken(address _linkDaoToken) external
onlyOwner{
         require(_linkDaoToken!=address(0),"Invalid LinkDao token
address");
        LINKDAO_TOKEN_ADDRESS = _linkDaoToken;
}
```

Critical-Risk

0 critical-risk code issues found

Must be fixed, and will bring problem.

EXTRA NOTES SMART CONTRACT

1. IERC20

```
interface IERC20 {
   * @dev Returns the number of tokens in existence.
 function totalSupply() external view returns (uint256);
 function balanceOf(address account) external view returns (uint256);
 function transfer(address recipient, uint256 amount) external returns (bool);
 function allowance (address owner, address spender) external view returns (uint256);
 function approve(address spender, uint256 amount) external returns (bool);
 function transferFrom(
    address sender,
    address recipient,
    uint256 amount
  ) external returns (bool);
   * @dev Emitted when `value` tokens are moved from one account (`from`) to
  * another (`to`).
  * Note that `value` may be zero.
  event Transfer(address indexed from, address indexed to, uint256 value);
}
```

IERC20 Normal Base Template

2. SafeMath Contract

```
library SafeMath {
    function add(uint256 a, uint256 b) internal pure returns
(uint256) {
        uint256 c = a + b;
        require(c >= a, "SafeMath: addition overflow");
        return c;
    }
    function sub(uint256 a, uint256 b, string memory errorMessage)
internal pure returns (uint256) {
        require(b <= a, errorMessage);</pre>
        uint256 c = a - b;
        return c;
    }
     * @dev Returns the multiplication of two unsigned integers,
reverting on
     * overflow.
     * Counterpart to Solidity's `*` operator.
     * Requirements:
     * - Multiplication cannot overflow.
     */
    function mod(
        uint256 a,
        uint256 b,
        string memory errorMessage
    ) internal pure returns (uint256) {
        unchecked {
            require(b > 0, errorMessage);
            return a % b;
        }
    }
}
```

3. LinkDao Contract

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.15;
import "../Ownable.sol";
import "../SafeMath.sol";
import "../SafeERC20.sol";
contract LinkDaoRecurring_V24 is Ownable {
    using SafeMath for uint256;
    using SafeERC20 for IERC20;
    address public LINKDAO TOKEN ADDRESS;
    uint256 public MAX_STAKE = 100000 ether;
    uint256 public MAX STAKE PER USER = 5000 ether;
    uint256 public MIN_STAKE = 1 ether;
    uint256 public REWARD_PERIOD = 30 days;
    uint256[] public RELEASE_PERIODS = [
0,0,0,0,0,5000,5000,5000,5000,5000,5000,5000,5000,5000,5000
,5000,5000,5000,5000,5000,10000,10000
    1;
    uint256 public TOTAL RELEASE DAYS = 720 days;
    uint256 public ROI_PERCENTAGE = 3000; // 3%
    uint256 public TOTAL PERCENTAGE = 100000;
    uint256 public MAX_REWARD_PERCENTAGE = 48900;
    uint256 public totalInvestments;
    uint256 public totalInvestors;
    uint256 public totalReward;
    uint256 public currentID;
    struct Investor{
        address investor;
        uint256 totalInvestment;
        uint256 activeAmount;
```

```
uint256 totalReward;
        uint256 startDate;
        uint256[] userInvestments;
    }
    struct Investment{
        address investor;
        uint256 totalAmount;
        uint256 totalReward;
        uint256 activeAmount;
        uint256 claimedAmount;
        uint256 startDate;
        uint256 lastCheckpoint;
        uint256 endDate;
        uint256 maxReward;
    }
    mapping(address=>Investor) public investors;
    mapping(uint256=>Investment) public investments;
    constructor(address _linkDaoToken) {
        require( linkDaoToken!=address(0),"Invalid LinkDao token
address");
        LINKDAO_TOKEN_ADDRESS = _linkDaoToken;
    }
    function setLinkDaoToken(address linkDaoToken) external
onlyOwner{
        require( linkDaoToken!=address(0),"Invalid LinkDao token
address");
        LINKDAO_TOKEN_ADDRESS = _linkDaoToken;
    }
    function investAmount(uint256 amount) external{
        require(_amount>=MIN_STAKE,"Cannot stake less than 1
LKD");
        require(totalInvestments.add( amount) <= MAX STAKE, "Cannot</pre>
stake more than 100,000 LKD");
require(investors[msg.sender].totalInvestment.add(_amount)<=MAX_ST</pre>
```

```
AKE_PER_USER, "Cannot stake more than 100,000 LKD");
        currentID = currentID.add(1);
        investments[currentID] = Investment({
            investor:msg.sender,
            totalAmount: amount,
            totalReward:0,
            activeAmount: amount,
            claimedAmount:0,
            startDate:block.timestamp,
            lastCheckpoint:block.timestamp,
            endDate:block.timestamp.add(TOTAL_RELEASE_DAYS),
maxReward:_amount.mul(MAX_REWARD_PERCENTAGE).div(TOTAL_PERCENTAGE)
        });
IERC20(LINKDAO_TOKEN_ADDRESS).safeTransferFrom(msg.sender,address(
this),_amount);
        if(investors[msg.sender].investor==address(0)){
            investors[msg.sender].investor = msg.sender;
            investors[msg.sender].startDate = block.timestamp;
            totalInvestors = totalInvestors.add(1);
        }
        investors[msg.sender].totalInvestment =
investors[msg.sender].totalInvestment.add( amount);
        investors[msg.sender].activeAmount =
investors[msg.sender].activeAmount.add( amount);
        investors[msg.sender].userInvestments.push(currentID);
        totalInvestments = totalInvestments.add( amount);
    }
    function getTotalProfit(address _investorAddress) public view
returns(uint256 totalProfit) {
        for(uint256
i=0;i<investors[_investorAddress].userInvestments.length;i++){</pre>
            totalProfit =
totalProfit.add(getTotalProfitForInvestment(
```

```
investors[ investorAddress].userInvestments[i]
            ));
        }
    }
    function getWithdrawableTotalProfit(address _investorAddress)
public view returns(uint256 totalProfit) {
        for(uint256
i=0;i<investors[ investorAddress].userInvestments.length;i++){</pre>
            (uint256 currentProfit,) =
getWithdrawableTotalProfitForInvestment(
                investors[ investorAddress].userInvestments[i]
            );
            totalProfit = totalProfit.add(currentProfit);
        }
    }
    function getTotalProfitForInvestment(uint256 investmentID)
public view returns(uint256 totalProfit){
        uint256 activeAmount =
investments[_investmentID].activeAmount;
        if(activeAmount==0){
            return totalProfit;
        }
        uint256 currentTime =
            block.timestamp < investments[ investmentID].endDate ?</pre>
block.timestamp : investments[ investmentID].endDate;
        uint256 timePeriod = currentTime -
investments[_investmentID].lastCheckpoint;
        totalProfit =
activeAmount.mul(ROI_PERCENTAGE).mul(timePeriod).div(REWARD_PERIOD
.mul(TOTAL_PERCENTAGE));
if(investments[_investmentID].totalReward.add(totalProfit)>investm
ents[ investmentID].maxReward){
            totalProfit =
```

```
investments[ investmentID].maxReward.sub(investments[ investmentID
].totalReward);
        }
        uint256 releaseStartIndex =
(investments[ investmentID].lastCheckpoint.sub(investments[_invest
mentID].startDate)).div(REWARD PERIOD);
        uint256 releaseEndIndex =
(currentTime.sub(investments[ investmentID].startDate)).div(REWARD
_PERIOD);
        for(uint256 i = releaseStartIndex; i<releaseEndIndex;i++){</pre>
            if(RELEASE PERIODS[i]>0){
                uint256 releaseAmount =
investments[ investmentID].totalAmount.mul(RELEASE PERIODS[i]).div
(TOTAL_PERCENTAGE);
                totalProfit = totalProfit.add(releaseAmount);
            }
        }
    }
    function getWithdrawableTotalProfitForInvestment(uint256
investmentID) public view returns(uint256 totalProfit,uint256
amountToRelease){
        uint256 activeAmount =
investments[ investmentID].activeAmount;
        if(activeAmount==0){
            return (totalProfit,amountToRelease);
        }
        uint256 currentTime =
            block.timestamp < investments[ investmentID].endDate ?</pre>
block.timestamp : investments[ investmentID].endDate;
        uint256 timePeriod = currentTime -
investments[_investmentID].lastCheckpoint;
        totalProfit =
```

```
activeAmount.mul(ROI PERCENTAGE).mul(timePeriod.div(REWARD PERIOD)
).div(TOTAL PERCENTAGE);
if(investments[_investmentID].totalReward.add(totalProfit)>investm
ents[ investmentID].maxReward){
            totalProfit =
investments[_investmentID].maxReward.sub(investments[_investmentID
1.totalReward);
        }
        uint256 releaseStartIndex =
(investments[_investmentID].lastCheckpoint.sub(investments[_invest
mentID].startDate)).div(REWARD PERIOD);
        uint256 releaseEndIndex =
(currentTime.sub(investments[ investmentID].startDate)).div(REWARD
_PERIOD);
        for(uint256 i = releaseStartIndex; i<releaseEndIndex;i++){</pre>
            if(RELEASE PERIODS[i]>0){
                uint256 releaseAmount =
investments[ investmentID].totalAmount.mul(RELEASE PERIODS[i]).div
(TOTAL PERCENTAGE);
                totalProfit = totalProfit.add(releaseAmount);
                amountToRelease =
amountToRelease.add(releaseAmount);
        }
    }
    function getLkdBalance() public view returns(uint256 balance){
        balance =
IERC20(LINKDAO TOKEN ADDRESS).balanceOf(address(this));
    function withdrawReward() external {
        uint256 totalRewardToRelease;
        for(uint256 i =
0;i<investors[msg.sender].userInvestments.length;i++){</pre>
            uint256 investmentID =
investors[msg.sender].userInvestments[i];
```

```
(uint256 currentInvestmentProfit,uint256
releaseAmount) =
getWithdrawableTotalProfitForInvestment(_investmentID);
            totalRewardToRelease =
totalRewardToRelease.add(currentInvestmentProfit);
            investments[_investmentID].totalReward =
investments[ investmentID].totalReward.add(currentInvestmentProfit
.sub(releaseAmount));
            investments[_investmentID].claimedAmount =
investments[_investmentID].claimedAmount.add(currentInvestmentProf
it);
            investments[ investmentID].activeAmount =
investments[_investmentID].activeAmount.sub(releaseAmount);
            investors[msg.sender].activeAmount =
investors[msg.sender].activeAmount.sub(releaseAmount);
            uint256 numberOfMonths =
(block.timestamp.sub(investments[ investmentID].lastCheckpoint)).d
iv(REWARD PERIOD);
            investments[ investmentID].lastCheckpoint =
investments[ investmentID].lastCheckpoint.add(numberOfMonths.mul(R
EWARD PERIOD));
        require(totalRewardToRelease>0,"No withdrawable reward
yet");
IERC20(LINKDAO_TOKEN_ADDRESS).safeTransfer(msg.sender,totalRewardT
oRelease);
        investors[msg.sender].totalReward =
investors[msg.sender].totalReward.add(totalRewardToRelease);
        totalReward = totalReward.add(totalRewardToRelease);
    }
    function withdrawSingleReward(uint256 _investmentID) external
```

```
{
require(investments[ investmentID].investor==msg.sender,"Only
investor can claim the reward");
        uint256 totalRewardToRelease;
        (uint256 currentInvestmentProfit,uint256 releaseAmount) =
getWithdrawableTotalProfitForInvestment( investmentID);
        totalRewardToRelease =
totalRewardToRelease.add(currentInvestmentProfit);
        investments[ investmentID].totalReward =
investments[_investmentID].totalReward.add(currentInvestmentProfit
.sub(releaseAmount));
        investments[_investmentID].claimedAmount =
investments[ investmentID].claimedAmount.add(currentInvestmentProf
it);
        investments[_investmentID].activeAmount =
investments[ investmentID].activeAmount.sub(releaseAmount);
        investors[msg.sender].activeAmount =
investors[msg.sender].activeAmount.sub(releaseAmount);
        uint256 numberOfMonths =
(block.timestamp.sub(investments[ investmentID].lastCheckpoint)).d
iv(REWARD PERIOD);
        investments[ investmentID].lastCheckpoint =
investments[ investmentID].lastCheckpoint.add(numberOfMonths.mul(R
EWARD PERIOD));
IERC20(LINKDAO_TOKEN_ADDRESS).safeTransfer(msg.sender,totalRewardT
oRelease);
        investors[msg.sender].totalReward =
investors[msg.sender].totalReward.add(totalRewardToRelease);
        totalReward = totalReward.add(totalRewardToRelease);
    }
```

```
function depositLKD(uint256 _amount) external onlyOwner{

IERC20(LINKDAO_TOKEN_ADDRESS).safeTransferFrom(msg.sender,address(this),_amount);
  }

function withdrawLKD(uint256 _amount) external onlyOwner{

IERC20(LINKDAO_TOKEN_ADDRESS).safeTransfer(msg.sender,_amount);
  }
}
```

5. Withdraw LKD

```
function withdrawLKD(uint256 _amount) external onlyOwner{
IERC20(LINKDAO_TOKEN_ADDRESS).safeTransfer(msg.sender,_amount);
}
```

Owner can withdraw LinkDao Token more than total staking! - Warning

Advice: Delete this function or add limitation the owner cannot withdraw more than the total staking.

6. setLinkDaoToken

Owner can change token address used for staking anytime - Warning

Advice: Delete this function.

READ CONTRACT (ONLY NEED TO KNOW)

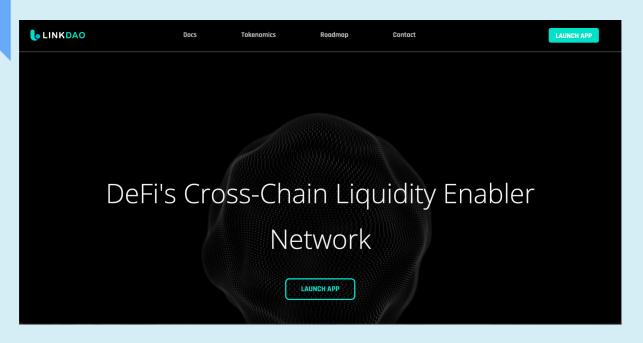
- 1. LINKDAO_TOKEN_ADDRESS

 0xaf027427dc6d31a3e7e162a710a5fe27e63e275f uint256
 (Shows Contract Linkdao)
- 2. MAX_REWARD_PERCENTAGE 48900 uint256

WRITE CONTRACT

- 1. depositLKD
 _amount (uint256)(The form is filled with the amount for deposit LinkDao)
- 2. investAmount_amount (uint256)(The form is filled with the amount for invest)
- renounceOwnership(Call function for renounce ownership)
- 4. transferOwnership newOwner (address)(Its function is to change the owner)

WEBSITE REVIEW



- Mobile Friendly
- Contains no code error
- SSL Secured (By R3 SSL)

Web-Tech stack: jQuery, Bootstrap, Wordpress

Domain .com (hostinger) - Tracked by whois

First Contentful Paint:	492ms
Fully Loaded Time	1.6s
Performance	100%
Accessibility	94%
Best Practices	92%
SEO	91%

SECURITY REVIEW

Based on the available information analyzed by us, we come to the following conclusions:

- Owner can withdraw LinkDao Token more than total staking!
- Owner can change token address used for staking anytime

Note: Please check the disclaimer above and note, that the audit makes no statements or warranties on the business model, investment attractiveness, or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by the project owner.