Coinsult

Advanced Manual Smart Contract Audit

Project: Fishgun Token

Website: https://fishguncrypto.io/

Low-Risk	Medium-Risk	High-Risk
4 low-risk code issues found	0 medium-risk code issues found	0 high-risk code issues found

Contract Address

0x3D45BDCa2Ce083fA1002d557e3286dBd367923DC

Disclaimer

Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

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Coinsult can not be held responsible for when a project turns out to be a rug-pull, honeypot or scam.

Tokenomics

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Source Code

Coinsult was comissioned by Fishgun Token to perform an audit based on the following smart contract:

https://bscscan.com/address/0x3D45BDCa2Ce083fA1002d557e3286dBd367923DC#code

Safu Contract

Manual Code Review

In this audit report we will highlight all these issues:

🟢 Low-Risk

4 low-risk code
issues found

🟡 Medium-Risk

0 medium-risk code
issues found

🔴 High-Risk

0 high-risk code
issues found

The detailed report continues on the next page...

🟢 **Low-Risk:** Could be fixed, will not bring problems.

Inaccurate require statement

```
function updateBuyFees(uint256 _marketingFeeOnBuy) external onlyOwner {
    require(
        _marketingFeeOnBuy &amp;lt;= 3,
        &amp;quot;Fees must be less than 3%&amp;quot;
    );
    _totalFeesOnBuy = _marketingFeeOnBuy;
    emit UpdateBuyFees(_totalFeesOnBuy);
}

function updateSellFees(uint256 _marketingFeeOnSell) external onlyOwner {
    require(
        _marketingFeeOnSell &amp;lt;= 3,
        &amp;quot;Fees must be less than 3%&amp;quot;
    );
    _totalFeesOnSell = _marketingFeeOnSell;
    emit UpdateSellFees(_totalFeesOnSell);
}
```

Recommendation

Require statement states the fee must be less than 3% while it can also be 3%.

🟢 **Low-Risk:** Could be fixed, will not bring problems.

No zero address validation for some functions

Detect missing zero address validation.

```
function changeMarketingWallet(address _marketingWallet) external onlyOwner {
    require(_marketingWallet != marketingWallet, "Marketing wallet is already that address");
    require(!isContract(_marketingWallet), "Marketing wallet cannot be a contract");
    marketingWallet = _marketingWallet;
    emit MarketingWalletChanged(marketingWallet);
}
```

Recommendation

Check that the new address is not zero.

Exploit scenario

```
contract C {

  modifier onlyAdmin {
    if (msg.sender != owner) throw;
    _;
  }

  function updateOwner(address newOwner) onlyAdmin external {
    owner = newOwner;
  }
}
```

Bob calls `updateOwner` without specifying the `newOwner`, soBob loses ownership of the contract.

🟢 **Low-Risk:** Could be fixed, will not bring problems.

Unchecked transfer

The return value of an external transfer/transferFrom call is not checked.

```
function claimStuckTokens(address token) external onlyOwner {
    require(token != address(this), "Owner cannot claim native tokens");
    if (token == address(0x0)) {
        payable(msg.sender).transfer(address(this).balance);
        return;
    }
    IERC20 ERC20token = IERC20(token);
    uint256 balance = ERC20token.balanceOf(address(this));
    ERC20token.transfer(msg.sender, balance);
}
```

Recommendation

Use `SafeERC20`, or ensure that the transfer/transferFrom return value is checked.

Exploit scenario

```
contract Token {
    function transferFrom(address _from, address _to, uint256 _value) public returns (bool success);
}
contract MyBank{
    mapping(address => uint) balances;
    Token token;
    function deposit(uint amount) public{
        token.transferFrom(msg.sender, address(this), amount);
        balances[msg.sender] += amount;
    }
}
```

Several tokens do not revert in case of failure and return false. If one of these tokens is used in `MyBank`, `deposit` will not revert if the transfer fails, and an attacker can call `deposit` for free..

🟢 **Low-Risk:** Could be fixed, will not bring problems.

Missing events arithmetic

Detect missing events for critical arithmetic parameters.

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner {
    require(
        newAmount &gt; totalSupply() / 1_000_000,
        "New Amount must more than 0.0001% of total supply"
    );
    swapTokensAtAmount = newAmount;
}
```

Recommendation

Emit an event for critical parameter changes.

Exploit scenario

```
contract C {

  modifier onlyAdmin {
    if (msg.sender != owner) throw;
    _;
  }

  function updateOwner(address newOwner) onlyAdmin external {
    owner = newOwner;
  }
}
```

`updateOwner()` has no event, so it is difficult to track off-chain changes in the buy price.

Owner privileges

- 🟢 Owner cannot set fees higher than 25%
- 🟢 Owner cannot pause trading
- 🟢 Owner cannot change max transaction amount
- 🟡 Owner can exclude from fees

⚠️ Owner is in this case the ‘operator’ which can be changed by the operator role.

⚠️ Owner can update the UniswapV2Router

Extra notes by the team

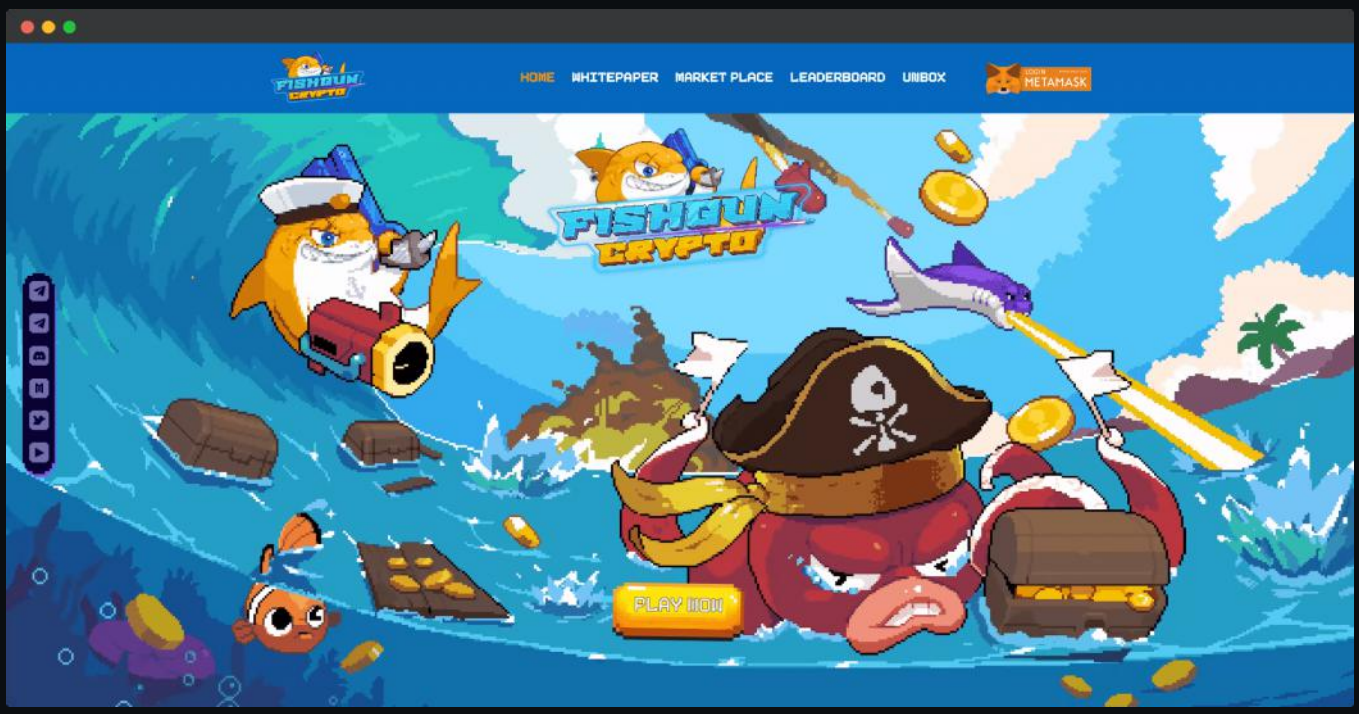
No notes

Contract Snapshot

```
contract FishgunToken is ERC20, Ownable {
using Address for address payable;

uint256 public _totalFeesOnBuy = 1;
uint256 public _totalFeesOnSell = 1;

address public  marketingWallet = 0x0f32c3EC010175FE26802E61eB43c3cAdB8B6820;

bool    public  walletToWalletTransferWithoutFee = false;

IUniswapV2Router02 public uniswapV2Router;
address public  uniswapV2Pair;

address private DEAD = 0x000000000000000000000000000000000000dEaD;

uint256 public swapTokensAtAmount;
bool    public swapWithLimit;
bool    private swapping;
bool    public swapEnabled = true;

mapping (address =&gt; bool) private _isExcludedFromFees;
mapping (address =&gt; bool) public automatedMarketMakerPairs;

event ExcludeFromFees(address indexed account);
event UpdateBuyFees(uint256 marketingFeeOnBuy);
event UpdateSellFees(uint256 marketingFeeOnSell);
event MarketingWalletChanged(address marketingWallet);
event SetAutomatedMarketMakerPair(address indexed pair, bool indexed value);
event SendMarketing(uint256 bnbSend);
event UpdateUniswapV2Router(address indexed newAddress, address indexed oldAddress);

constructor(
    address newOwner
)ERC20("Fishgun Token",  "FGC") {
    transferOwnership(newOwner);
```

Website Review

Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



- Mobile Friendly
- Does not contain jQuery errors
- SSL Secured
- No major spelling errors

Project Overview

Not KYC verified by Coinsult

Fishgun Token

Audited by Coinsult.net

Date: 27 July 2022

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