Coinsult

Advanced Manual Smart Contract Audit

Project: SonicDoge

Website: https://sonicdoge.dog

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

Contract Address

0x69D3E8279209b78dA6514981A962680b7C77d9F1

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 SonicDoge to perform an audit based on the following smart contract:

https://explorer.dogechain.dog/address/0x69D3E8279209b78dA6514981A962680b7C77c

Manual Code Review

In this audit report we will highlight all these issues:

Low-Risk

2 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.

No zero address validation for some functions

Detect missing zero address validation.

```
function changeTreasuryWallet(address _treasuryWallet) external onlyOwner {
    require(_treasuryWallet != treasuryWallet, 'Treasury wallet is already that address');
    treasuryWallet = _treasuryWallet;
}
```

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.

Missing events arithmetic

Detect missing events for critical arithmetic parameters.

```
function updateSellFees(
    uint256 _liquiditySellFee,
    uint256 _treasurySellFee,
    uint256 _firePitSellFee
) external onlyOwner {
    liquiditySellFee = _liquiditySellFee;
    treasurySellFee = _treasurySellFee;
    firePitSellFee = _firePitSellFee;
    totalSellFee = liquiditySellFee + treasurySellFee + firePitSellFee;

    require(totalSellFee &lt;= 10, &#039;Fees must be less than 10%&#039;);
}
```

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

Extra notes by the team

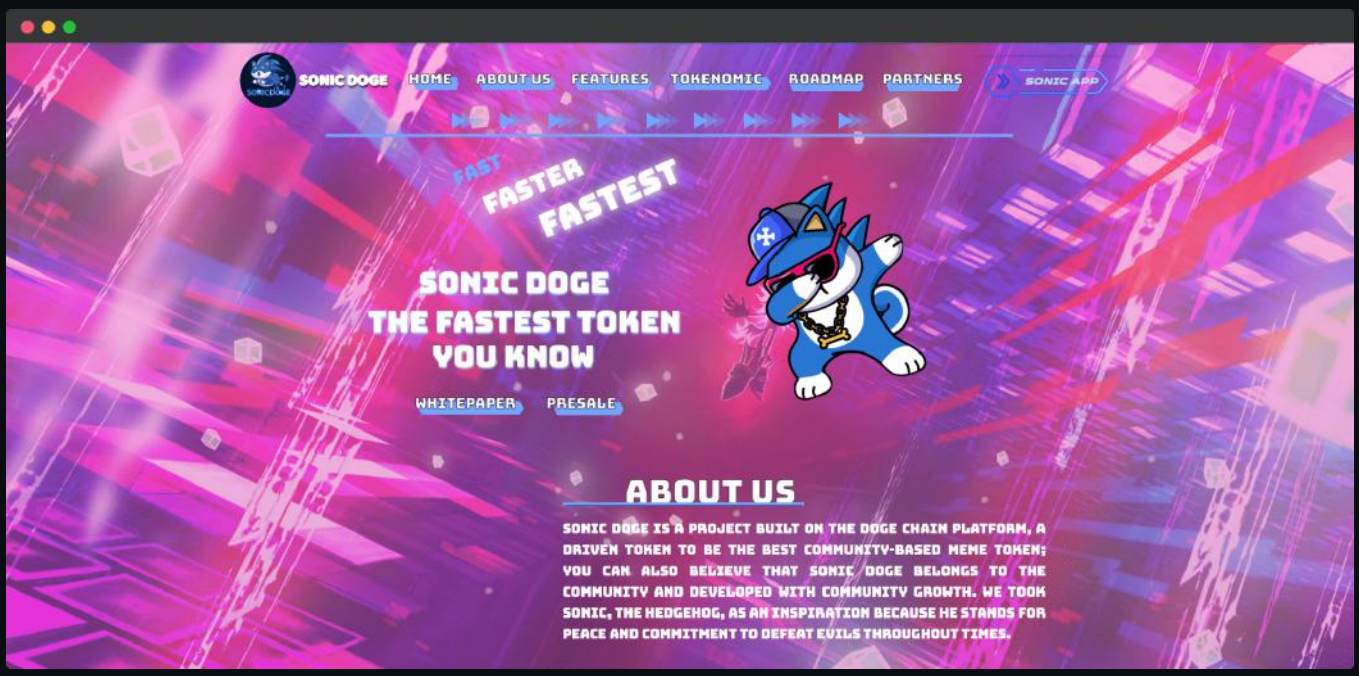
No notes

Contract Snapshot

```
contract SonicDoge is ERC20, Ownable {
mapping(address =&gt; uint256) _rBalance;
mapping(address =&gt; mapping(address =&gt; uint256)) private _allowances;
mapping(address =&gt; bool) private _isExcludedFromFees;

uint256 public liquidityBuyFee;
uint256 public treasuryBuyFee;
uint256 public totalBuyFee;

uint256 public liquiditySellFee;
uint256 public treasurySellFee;
uint256 public firePitSellFee;
uint256 public totalSellFee;

IDogeSwapV2Router02 public uniswapV2Router;
address public uniswapV2Pair;
address public sustainabilityWallet;
address public treasuryWallet;

address private DEAD = 0x000000000000000000000000000000000000dEaD;

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

uint256 private initialSupply;
uint256 private rSupply;
uint256 private constant MAX = type(uint256).max;
uint256 private _totalSupply;

bool public swapEnabled = true;
bool private inSwap;
uint256 private swapThreshold;
uint256 public lastSwapTime;
uint256 public swapInterval;

modifier swapping() {
    inSwap = true;
    _;
```

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

SonicDoge

Audited by Coinsult.net

Date: 18 August 2022

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