

Advanced Manual Smart Contract Audit

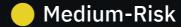


Project: Bork Token

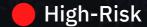
Website: http://borkfinance.dog



4 low-risk code issues found



0 medium-risk code issues found



0 high-risk code issues found

Contract Address

Disclaimer: 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 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.

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Tokenomics

Not available

Source Code

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

https://github.com/GambleFinance/borkcontract/blob/main/BorkToken.sol

Manual Code Review

In this audit report we will highlight all these issues:



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...

Change boolean name

Recommendation

For readability it would be better to change 'feeType' to 'isBuy'. True for buys, false for sells.

Too many digits

Literals with many digits are difficult to read and review.

```
uint256 feeAmount = amount.mul(fee).div(10000);
```

Recommendation

Use: Ether suffix, Time suffix, or The scientific notation

Exploit scenario

While 1_ether looks like 1 ether, it is 10 ether. As a result, it's likely to be used incorrectly.

No zero address validation for some functions

Detect missing zero address validation.

```
function updateDevAddress(
   address payable _dev
) external onlyOwner {
   isExcludedFromFee[developmentAddress] = false;
   emit AddressExcluded(_msgSender(), developmentAddress, false);

   developmentAddress = _dev;
   isExcludedFromFee[developmentAddress] = true;

   emit AddressExcluded(_msgSender(), developmentAddress, true);
}
```

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.

Costly operations inside a loop

Costly operations inside a loop might waste gas, so optimizations are justified.

```
function excludeMultipleAccountsFromFees(
   address[] calldata _accounts,
   bool _excluded
) external onlyOwner {
   for (uint256 i = 0; i < _accounts.length; i++) {
        isExcludedFromFee[_accounts[i]] = _excluded;

        emit AddressExcluded(_msgSender(), _accounts[i], _excluded);
   }
}
```

Recommendation

Use a local variable to hold the loop computation result.

Exploit scenario

```
contract CostlyOperationsInLoop{
   function bad() external{
      for (uint i=0; i < loop_count; i++){
          state_variable++;
      }
   }
   function good() external{
      uint local_variable = state_variable;
      for (uint i=0; i < loop_count; i++){
        local_variable++;
      }
      state_variable = local_variable;
   }
}</pre>
```

Incrementing state_variable in a loop incurs a lot of gas because of expensive SSTOREs, which might lead to an out-of-gas.

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 can mint new tokens

Extra notes by the team

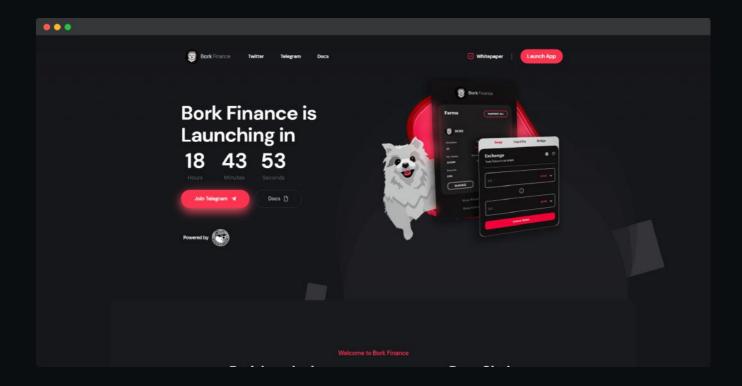
No notes

Contract Snapshot

```
contract Bork is ERC20Burnable, Ownable {
using SafeMath for uint256;
mapping(address => bool) public isExcludedFromFee;
mapping(address => bool) public isMinter;
mapping(address => bool) public whiteListedPair;
uint256 immutable public MAX_SUPPLY;
uint256 public BUY FEE = 10;
uint256 public SELL_FEE = 10;
address payable public developmentAddress;
event TokenRecoverd(address indexed _user, uint256 _amount);
event FeeUpdated(address indexed _user, bool _feeType, uint256 _fee);
event ToggleV2Pair(address indexed _user, address indexed _pair, bool _flag);
event AddressExcluded(address indexed _user, address indexed _account, bool _flag);
event MinterRoleAssigned(address indexed _user, address indexed _account);
event MinterRoleRevoked(address indexed _user, address indexed _account);
constructor(string memory __name, string memory __symbol, uint256 _maxSupply, uint256 _initialSupply
   require( initialSupply 0) {
       _mint(_msgSender(), _initialSupply);
```

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

Bork Token

Audited by Coinsult.net

Bork Fi



Date: 19 August 2022

✓ Advanced Manual Smart Contract Audit