Coinsult

Advanced Manual Smart Contract Audit

Project: Bloggercube

Website: https://bloggercube.com

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

Contract Address

0x43B121Af0fE2085D72c544e4B6f163C5A8a15D9F

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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Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	0x8dbef490ed14e0e54747a53f64f0def6a8384bb6	6,136,200,000	61.3620%
2	0xd8c979a29ac543a598dc6b94b901bb0b18d66a1b	3,263,800,000	32.6380%
3	0xbacabac66a434645be09f8ff15c3f05555279c88	200,000,000	2.0000%
4	0x60f5ae54a9c1fe3d310cf01351c4dff96e92fe02	200,000,000	2.0000%
5	0x57a178d61caf61bec3364286c196b8dc54f7e43e	200,000,000	2.0000%

Source Code

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

https://bscscan.com/address/0x43B121Af0fE2085D72c544e4B6f163C5A8a15D9F#code

Manual Code Review

In this audit report we will highlight all these issues:

Low-Risk

5 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.

Too many digits

Literals with many digits are difficult to read and review.

```
_mint(msg.sender, 10000000000 * 10**decimals());
```

Recommendation

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

Exploit scenario

```
contract MyContract{
    uint 1_ether = 10000000000000000000;
}
```

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

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

No zero address validation for some functions

Detect missing zero address validation.

```
function setMarketingWalletAddress(address _addr)
  public
  onlyOwner
  returns (bool)
{
  marketingWalletAddress = _addr;
  return 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.

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

Divide before multiply

Solidity integer division might truncate. As a result, performing multiplication before division can sometimes avoid loss of precision.

```
if (marketingWalletAddress != address(0) &amp;amp;&amp;amp; marketingFeePercent &amp;gt; 0) {
        marketingFee = (amount / 100) * marketingFeePercent;
      }
      if (developmentWalletAddress != address(0) &amp;amp;&amp;amp; developmentFeePercent &amp;gt; 0) {
        developmentFee = (amount / 100) * developmentFeePercent;
      }
      if (donationWalletAddress != address(0) &amp;amp;&amp;amp; donationFeePercent &amp;gt; 0) {
        donationFee = (amount / 100) * donationFeePercent;
      }
```

Recommendation

Consider ordering multiplication before division.

Exploit scenario

```
contract A {
    function f(uint n) public {
        coins = (oldSupply / n) * interest;
    }
}
```

If `n` is greater than `oldSupply`, `coins` will be zero. For example, with `oldSupply = 5; n = 10, interest = 2`, coins will be zero. If `(oldSupply * interest / n)` was used, `coins` would have been `1`. In general, it's usually a good idea to re-arrange arithmetic to perform multiplication before division, unless the limit of a smaller type makes this dangerous.

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

Missing events arithmetic

Detect missing events for critical arithmetic parameters.

```
function setMarketingFee(uint8 _fee)
  public
  onlyOwner
  onlyValidFee(_fee)
  returns (bool)
{
  marketingFeePercent = _fee;
  return true;
}
```

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.

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

Conformance to Solidity naming conventions

Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
donationWalletAddress = _addr
```

Recommendation

Follow the Solidity naming convention.

Rule exceptions

- Allow constant variable name/symbol/decimals to be lowercase (`ERC20`).
- Allow _ at the beginning of the `mixed_case` match for private variables and unused parameters.

Owner privileges

- Owner cannot pause trading
- Owner cannot change max transaction amount
- Owner cannot set fees higher than 30%

Extra notes by the team

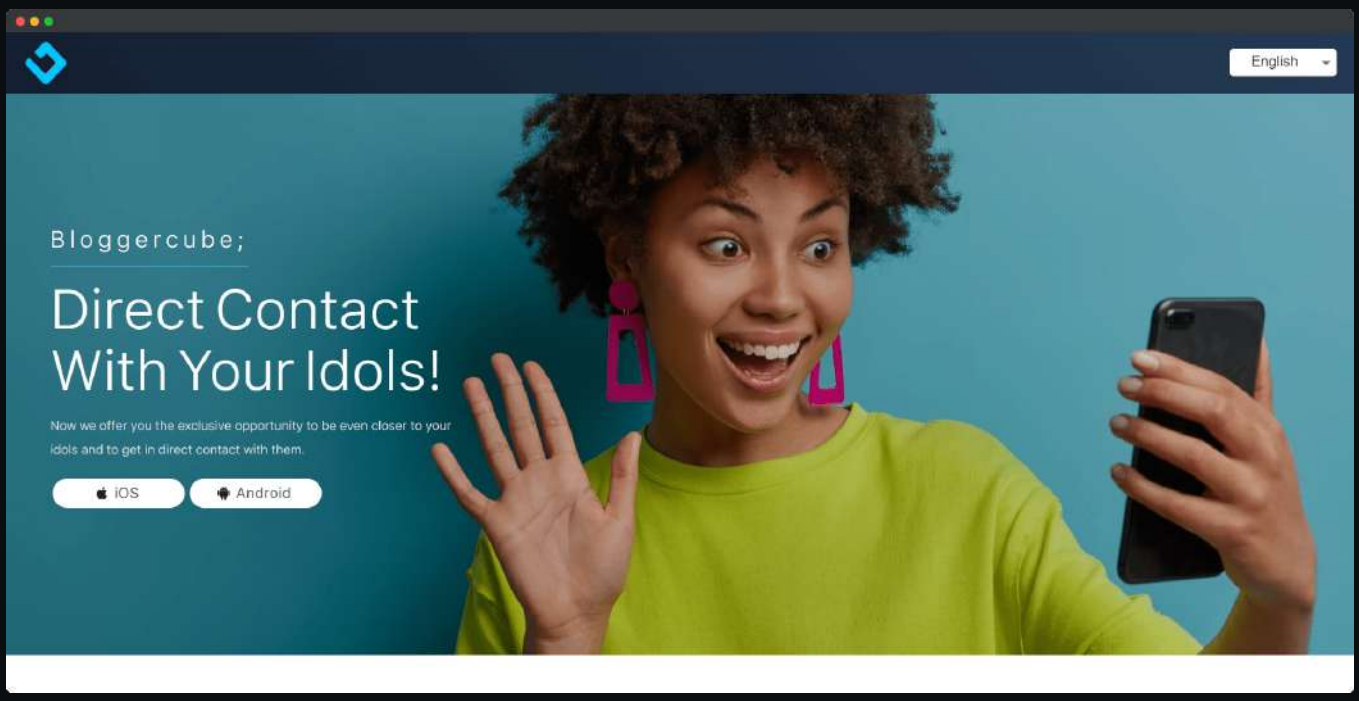
No notes

Contract Snapshot

```
contract BloggercubeToken is ERC20, ERC20Snapshot, Ownable {
// State Variables
uint8 public marketingFeePercent = 0;
uint8 public developmentFeePercent = 0;
uint8 public donationFeePercent = 0;
address public marketingWalletAddress;
address public developmentWalletAddress;
address public donationWalletAddress;
address public _owner;
```

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