Coinsult

Advanced Manual Smart Contract Audit

SLEEP TO EARN

Project: Sleep To Earn

Website: https://sleeptoearn.finance/

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

Contract Address

0x312Ed6F4eaE6a3aA467D60d6ad1fd31CC3A8B5d0

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	0x859b6148835940e41aae58d9fb2df3dc42e5c69c	100,000,000	100.0000%

Source Code

Coinsult was comissioned by Sleep To Earn to perform an audit based on the following smart contract:

https://bscscan.com/address/0x312Ed6F4eaE6a3aA467D60d6ad1fd31CC3A8B5d0#code

Manual Code Review

In this audit report we will highlight all these issues:

🟢 Low-Risk

3 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.

Divide before multiply

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

```
_balances[recipient] = _balances[recipient].add(amount/100*(100-tax));
```

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 update_tax_Address(address _newAddress) public onlyOwner{
    require(_newAddress != address(0), "BEP20: new address must not be zero address");
    taxAddress = _newAddress;
}
```

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.

Redundant Statements

Detect the usage of redundant statements that have no effect.

```
function _msgData() internal view returns (bytes memory) {
  this; // silence state mutability warning without generating bytecode - see https://github.com/eth
  return msg.data;
}
```

Recommendation

Remove redundant statements if they congest code but offer no value.

Exploit scenario

```
contract RedundantStatementsContract {

    constructor() public {
        uint; // Elementary Type Name
        bool; // Elementary Type Name
        RedundantStatementsContract; // Identifier
    }

    function test() public returns (uint) {
        uint; // Elementary Type Name
        assert; // Identifier
        test; // Identifier
        return 777;
    }
}
```

Each commented line references types/identifiers, but performs no action with them, so no code will be generated for such statements and they can be removed.

Owner privileges

- Owner cannot set fees higher than 25%
- Owner cannot pause trading
- Owner cannot change max transaction amount

Extra notes by the team

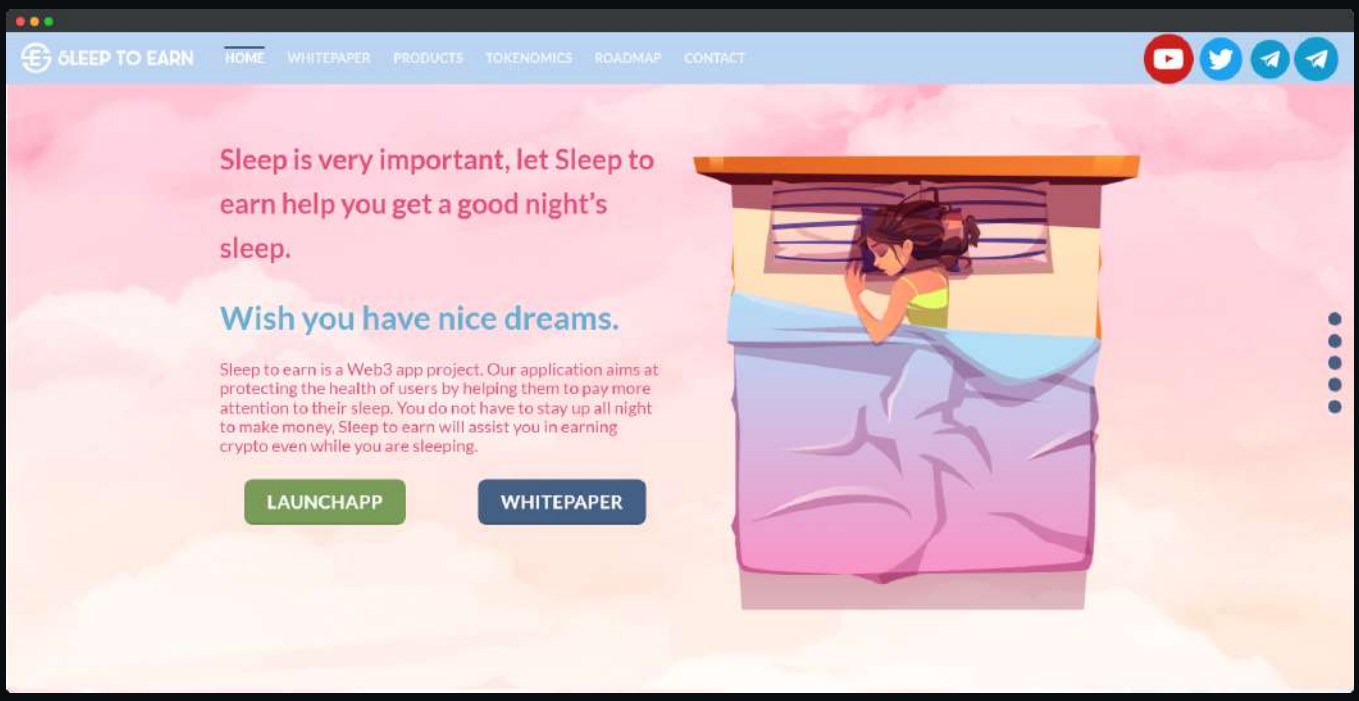
No notes

Contract Snapshot

```
contract BEP20Token_SleepToEarn is Context, IBEP20, Ownable {
using SafeMath for uint256;
mapping (address =&gt; uint256) private _balances;
mapping (address =&gt; mapping (address =&gt; uint256)) private _allowances;
uint256 private _totalSupply;
uint8 private _decimals;
string private _symbol;
string private _name;
address public masterWallet;
uint public tax=2;
bool public taxStatus = true;
address public taxAddress;
```

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