

Advanced Manual Smart Contract Audit

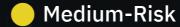


Project: Python

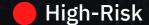
Website: http://www.pyhons.com



4 low-risk code issues found



0 medium-risk code issues found



0 high-risk code issues found

Contract Address

0x7E284A0D6fEc2ac002c9BB0B7eCc53a4a4f1Fde0

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

Tokenomics

| Rank | Address | Quantity (Token) | Percentage |
|------|--|------------------|------------|
| 1 | 0x95782119b0dac5fee96187376459f780df586811 | 770,000,000 | 77.0000% |
| 2 | 0x08df3400805627e42d4ec33cfaf9d040e28cb0f8 | 200,000,000 | 20.0000% |
| 3 | 0x62da7160099b54b9fef530bab5c8c11a6795ba62 | 30,000,000 | 3.0000% |

Source Code

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

https://bscscan.com/address/0x7e284a0d6fec2ac002c9bb0b7ecc53a4a4f1fde0#code

Manual Code Review

In this audit report we will highlight all these issues:



4 low-risk code issues found



0 medium-risk code issues found



0 high-risk code issues found

The detailed report continues on the next page...

Contract contains Reentrancy vulnerabilities

Additional information: This combination increases risk of malicious intent. While it may be justified by some complex mechanics (e.g. rebase, reflections, buyback).

More information: Slither

```
function transfer(
   address from,
   address to,
   uint256 amount
) private {
    require(from != address(0), "ERC20: transfer from the zero address");
    require(amount > 0, "Transfer amount must be greater than zero");
   uint256 senderBalance = balances[from];
    require(senderBalance >= amount, "ERC20: transfer amount exceeds balance");
   // transfer amount
    // is the token balance of this contract address over the min number of
    // also, don't get caught in a circular liquidity event.
   uint256 contractTokenBalance = balanceOf(address(this));
    bool overMinTokenBalance = contractTokenBalance >= minTokenBalance;
        !currentlySwapping &&
       overMinTokenBalance &amn:&amn:
```

Recommendation

Apply the check-effects-interactions pattern.

Exploit scenario

```
function withdrawBalance(){
    // send userBalance[msg.sender] Ether to msg.sender
    // if mgs.sender is a contract, it will call its fallback function
    if( ! (msg.sender.call.value(userBalance[msg.sender])() ) ){
        throw;
    }
    userBalance[msg.sender] = 0;
}
```

Bob uses the re-entrancy bug to call withdrawBalance two times, and withdraw more than its initial deposit to the contract.

Too many digits

Literals with many digits are difficult to read and review.

```
uint256 private _totalSupply = 10 * 1000000000 * 10**9;
```

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.

Conformance to Solidity naming conventions

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

```
uint256 public _MarketFee = 3;
```

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.

Redundant Statements

Detect the usage of redundant statements that have no effect.

```
function _msgData() internal view virtual returns (bytes memory) {
   this; // silence state mutability warning without generating bytecode - see https://github.com/erreturn 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
- Owner can exclude from fees

Extra notes by the team

No notes

Contract Snapshot

```
contract PYTHON is Context, IERC20, Ownable {
    using SafeMath for uint256;
    using Address for address;

mapping (address = > uint256) private _balances;
    mapping (address = > mapping (address = > uint256)) private _allowances;
    mapping (address = > bool) private _isExcludedFromFee;
    mapping (address = > bool) private _isExcludedFromPair;

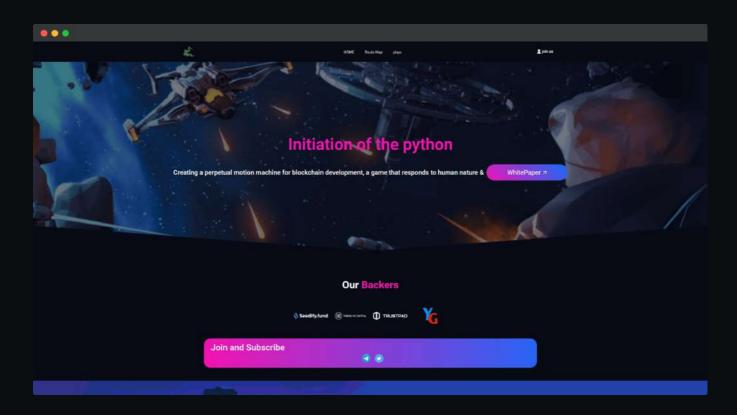
uint256 private _totalSupply = 10 * 1000000000 * 10**9;

string private _name = "PYTHON";
    string private _symbol = "PYH";
    uint8 private _decimals = 9;

uint256 public _burnFee = 2;
    uint256 public _MarketFee = 3;
```

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

Note:

Website is not forced to SSL

Project Overview

Not KYC verified by Coinsult

