


# SMART CONTRACT SECURITY AUDIT

Final report

Plan: Simple

## YouEcosystem DeFi 3.0 aggregator

July 2022

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## CONTENTS

<b>1. Introduction</b>	<b>3</b>
<b>2. Contracts checked</b>	<b>3</b>
<b>3. Audit Process</b>	<b>3</b>
<b>4. Attacks checked</b>	<b>4</b>
<b>5. Classification of issues</b>	<b>5</b>
<b>6. Issues</b>	<b>6</b>
6.1 High severity issues	6
6.2 Medium severity issues	6
6.3 Low severity issues	6
<b>7. Conclusion</b>	<b>7</b>
<b>8. Disclaimer</b>	<b>8</b>
<b>9. Static Analysis</b>	<b>9</b>

## **INTRODUCTION**

A fungible token of ERC20 standard with antibot functionality.

Name	YouEcosystem DeFi 3.0 aggregator
Audit date	2022-07-04 - 2022-07-04
Language	Solidity
Network	Binance Smart Chain

## **CONTRACTS CHECKED**

Name	Address
AntiBotStandardToken	0x5b73b9aeb1ad8d5a198a74c6f1843fc6bb69d0c5

## **AUDIT PROCESS**

The code was audited by the team according to the following order:

### Automated analysis

- ♦ Scanning the project's smart contracts with several publicly available automated Solidity analysis tools
- ♦ Manual confirmation of all the issues found by the tools

### Manual audit

- ♦ Thorough manual analysis of smart contracts for security vulnerabilities
- ♦ Smart contracts' logic check

## ATTACKS CHECKED

Title	Check result
Unencrypted Private Data On-Chain	✓ passed
Code With No Effects	✓ passed
Message call with hardcoded gas amount	✓ passed
Typographical Error	✓ passed
DoS With Block Gas Limit	✓ passed
Presence of unused variables	✓ passed
Incorrect Inheritance Order	✓ passed
Requirement Violation	✓ passed
Weak Sources of Randomness from Chain Attributes	✓ passed
Shadowing State Variables	✓ passed
Incorrect Constructor Name	✓ passed
Block values as a proxy for time	✓ passed
Authorization through tx.origin	✓ passed
DoS with Failed Call	✓ passed
Delegatecall to Untrusted Callee	✓ passed

Use of Deprecated Solidity Functions	✓ passed
Assert Violation	✓ passed
State Variable Default Visibility	✓ passed
Reentrancy	✓ passed
Unprotected SELFDESTRUCT Instruction	✓ passed
Unprotected Ether Withdrawal	✓ passed
Unchecked Call Return Value	✓ passed
Floating Pragma	✓ passed
Outdated Compiler Version	✓ passed
Integer Overflow and Underflow	✓ passed
Function Default Visibility	✓ passed

## CLASSIFICATION OF ISSUES

<b>High severity</b>	Issues leading to assets theft, locking or any other loss of assets or leading to contract malfunctioning.
<b>Medium severity</b>	Issues that can trigger a contract failure of malfunctioning.
<b>Low severity</b>	Issues that do now affect contract functionality. For example, unoptimised gas usage, outdated or unused code, code style violations, etc.



## ❖ ISSUES

High severity issues

No issues were found

Medium severity issues

No issues were found

Low severity issues

### 1. Antibot may block transfers (AntiBotStandardToken)

The contract calls an external contract for antibot protection. The antibot contract is deployed via proxy and it's coe can be changed. The antibot may potentially block transfers.

```
function _transfer(
    address sender,
    address recipient,
    uint256 amount
) internal virtual {
    ...

    if (enableAntiBot) {
        pinkAntiBot.onPreTransferCheck(sender, recipient, amount);
    }
    ...
}
```

## ◆ CONCLUSION

YouEcosystem DeFi 3.0 aggregator AntiBotStandardToken contract was audited. 1 low severity issue was found.

## ◆ **DISCLAIMER**

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This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.



## STATIC ANALYSIS

INFO:Detectors:

AntiBotStandardToken.allowance(address,address).owner (YouEcosystem DeFi 3.0 aggregator.sol#590) shadows:

- Ownable.owner() (YouEcosystem DeFi 3.0 aggregator.sol#150-152) (function)

AntiBotStandardToken.\_approve(address,address,uint256).owner (YouEcosystem DeFi 3.0 aggregator.sol#795) shadows:

- Ownable.owner() (YouEcosystem DeFi 3.0 aggregator.sol#150-152) (function)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing>

INFO:Detectors:

AntiBotStandardToken.constructor(string,string,uint8,uint256,address,address,uint256).serviceFeeReceiver\_ (YouEcosystem DeFi 3.0 aggregator.sol#491) lacks a zero-check on :

- address(serviceFeeReceiver\_).transfer(serviceFee\_) (YouEcosystem DeFi 3.0 aggregator.sol#510)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation>

INFO:Detectors:

Reentrancy in AntiBotStandardToken.\_transfer(address,address,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#716-736):

External calls:

- pinkAntiBot.onPreTransferCheck(sender,recipient,amount) (YouEcosystem DeFi 3.0 aggregator.sol#725)

State variables written after the call(s):

- \_balances[sender] = \_balances[sender].sub(amount,ERC20: transfer amount exceeds balance) (YouEcosystem DeFi 3.0 aggregator.sol#730-733)
- \_balances[recipient] = \_balances[recipient].add(amount) (YouEcosystem DeFi 3.0 aggregator.sol#734)

Reentrancy in AntiBotStandardToken.constructor(string,string,uint8,uint256,address,address,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#485-511):

External calls:

- pinkAntiBot.setTokenOwner(owner()) (YouEcosystem DeFi 3.0 aggregator.sol#500)

State variables written after the call(s):

```

- enableAntiBot = true (YouEcosystem DeFi 3.0 aggregator.sol#501)
Reentrancy in AntiBotStandardToken.transferFrom(address,address,uint256)
(YouEcosystem DeFi 3.0 aggregator.sol#630-645):
  External calls:
    - _transfer(sender,recipient,amount) (YouEcosystem DeFi 3.0 aggregator.sol#635)
    - pinkAntiBot.onPreTransferCheck(sender,recipient,amount) (YouEcosystem DeFi 3.0
aggregator.sol#725)
  State variables written after the call(s):
    - _approve(sender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC20:
transfer amount exceeds allowance)) (YouEcosystem DeFi 3.0 aggregator.sol#636-643)
    - _allowances[owner][spender] = amount (YouEcosystem DeFi 3.0
aggregator.sol#802)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-
vulnerabilities-2
INFO:Detectors:
Reentrancy in AntiBotStandardToken._transfer(address,address,uint256) (YouEcosystem
DeFi 3.0 aggregator.sol#716-736):
  External calls:
    - pinkAntiBot.onPreTransferCheck(sender,recipient,amount) (YouEcosystem DeFi 3.0
aggregator.sol#725)
  Event emitted after the call(s):
    - Transfer(sender,recipient,amount) (YouEcosystem DeFi 3.0 aggregator.sol#735)
Reentrancy in AntiBotStandardToken.constructor(string,string,uint8,uint256,address,ad
dress,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#485-511):
  External calls:
    - pinkAntiBot.setTokenOwner(owner()) (YouEcosystem DeFi 3.0 aggregator.sol#500)
  Event emitted after the call(s):
    - TokenCreated(owner(),address(this),TokenType.antiBotStandard,VERSION)
(YouEcosystem DeFi 3.0 aggregator.sol#503-508)
Reentrancy in AntiBotStandardToken.transferFrom(address,address,uint256)
(YouEcosystem DeFi 3.0 aggregator.sol#630-645):
  External calls:
    - _transfer(sender,recipient,amount) (YouEcosystem DeFi 3.0 aggregator.sol#635)
    - pinkAntiBot.onPreTransferCheck(sender,recipient,amount) (YouEcosystem DeFi 3.0
aggregator.sol#725)
  Event emitted after the call(s):
    - Approval(owner,spender,amount) (YouEcosystem DeFi 3.0 aggregator.sol#803)

```

```

- _approve(sender,_msgSender(),_allowances[sender]
[_msgSender()].sub(amount,ERC20: transfer amount exceeds allowance)) (YouEcosystem
DeFi 3.0 aggregator.sol#636-643)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-
vulnerabilities-3
INFO:Detectors:
AntiBotStandardToken._burn(address,uint256) (YouEcosystem DeFi 3.0
aggregator.sol#768-779) is never used and should be removed
AntiBotStandardToken._setupDecimals(uint8) (YouEcosystem DeFi 3.0
aggregator.sol#813-815) is never used and should be removed
Context._msgData() (YouEcosystem DeFi 3.0 aggregator.sol#110-112) is never used and
should be removed
SafeMath.div(uint256,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#324-326) is
never used and should be removed
SafeMath.div(uint256,uint256,string) (YouEcosystem DeFi 3.0 aggregator.sol#380-389)
is never used and should be removed
SafeMath.mod(uint256,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#340-342) is
never used and should be removed
SafeMath.mod(uint256,uint256,string) (YouEcosystem DeFi 3.0 aggregator.sol#406-415)
is never used and should be removed
SafeMath.mul(uint256,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#310-312) is
never used and should be removed
SafeMath.sub(uint256,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#296-298) is
never used and should be removed
SafeMath.tryAdd(uint256,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#211-217) is
never used and should be removed
SafeMath.tryDiv(uint256,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#253-258) is
never used and should be removed
SafeMath.tryMod(uint256,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#265-270) is
never used and should be removed
SafeMath.tryMul(uint256,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#236-246) is
never used and should be removed
SafeMath.trySub(uint256,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#224-229) is
never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO:Detectors:
Pragma version=0.8.4 (YouEcosystem DeFi 3.0 aggregator.sol#461) necessitates a

```

version too recent to be trusted. Consider deploying with 0.6.12/0.7.6

solc-0.8.4 is not recommended for deployment

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity>

INFO:Detectors:

Parameter AntiBotStandardToken.setEnableAntiBot(bool).\_enable (YouEcosystem DeFi 3.0 aggregator.sol#513) is not in mixedCase

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions>

INFO:Detectors:

Variable AntiBotStandardToken.\_totalSupply (YouEcosystem DeFi 3.0 aggregator.sol#480) is too similar to AntiBotStandardToken.constructor(string,string,uint8,uint256,address,address,uint256).totalSupply\_ (YouEcosystem DeFi 3.0 aggregator.sol#489)

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-are-too-similar>

INFO:Detectors:

renounceOwnership() should be declared external:

- Ownable.renounceOwnership() (YouEcosystem DeFi 3.0 aggregator.sol#169-171)

transferOwnership(address) should be declared external:

- Ownable.transferOwnership(address) (YouEcosystem DeFi 3.0 aggregator.sol#177-180)

name() should be declared external:

- AntiBotStandardToken.name() (YouEcosystem DeFi 3.0 aggregator.sol#520-522)

symbol() should be declared external:

- AntiBotStandardToken.symbol() (YouEcosystem DeFi 3.0 aggregator.sol#528-530)

decimals() should be declared external:

- AntiBotStandardToken.decimals() (YouEcosystem DeFi 3.0 aggregator.sol#545-547)

totalSupply() should be declared external:

- AntiBotStandardToken.totalSupply() (YouEcosystem DeFi 3.0 aggregator.sol#552-554)

balanceOf(address) should be declared external:

- AntiBotStandardToken.balanceOf(address) (YouEcosystem DeFi 3.0 aggregator.sol#559-567)

transfer(address,uint256) should be declared external:

- AntiBotStandardToken.transfer(address,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#577-585)

allowance(address,address) should be declared external:

- AntiBotStandardToken.allowance(address,address) (YouEcosystem DeFi 3.0

aggregator.sol#590-598)

approve(address,uint256) should be declared external:

- AntiBotStandardToken.approve(address,uint256) (YouEcosystem DeFi 3.0

aggregator.sol#607-615)

transferFrom(address,address,uint256) should be declared external:

- AntiBotStandardToken.transferFrom(address,address,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#630-645)

increaseAllowance(address,uint256) should be declared external:

- AntiBotStandardToken.increaseAllowance(address,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#659-670)

decreaseAllowance(address,uint256) should be declared external:

- AntiBotStandardToken.decreaseAllowance(address,uint256) (YouEcosystem DeFi 3.0 aggregator.sol#686-700)

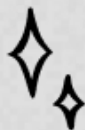
Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#public-function-that-could-be-declared-external>

INFO:Slither:YouEcosystem DeFi 3.0 aggregator.sol analyzed (7 contracts with 75 detectors), 40 result(s) found

INFO:Slither:Use <https://crytic.io/> to get access to additional detectors and Github integration


YouEcosystem DeFi 3.0 aggregator





# WOOF!

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