



AntiRAID.AI

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
AntiRAID.AI	MOD.AI()	Ethereum

Addresses

Contract address	0x482f17E35fbc09253cc6A66566cF9922f3E5F16D
Contract deployer address	0xF71d9a5609da1089D2A4d986124E63f4680EcA1f

Project Website

https://antiraidai.app/

Codebase

https://etherscan.io/address/0x482f17E35fbc09253cc6A66566cF9922f3E5F16D#code

SUMMARY

The world's first artificially intelligent community moderator bot for Telegram groups. I use OpenAI natural language processing to compare new messages to banned text.

Contract Summary

Documentation Quality

AntiRAID.AI provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also don't have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by AntiRAID.AI with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 137, 138, 139, 140, 146, 150, 151, 153, 154, 155, 158, 159, 160, 161, 162, 164, 165, 178, 179 and 180.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 10, 19, 26, 27, 35, 146, 146, 147, 147, 148, 148, 161, 161, 176, 176, 238, 241, 266, 266, 271, 384, 403, 403, 405, 405, 413, 413, 422, 422 and 423.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 7.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 311, 312, 313, 336, 337, 372, 373, 385 and 385.

CONCLUSION

We have audited the AntiRAID.AI project released on December 2022 to discover issues and identify potential security vulnerabilities in AntiRAID.AI Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides a satisfactory result with some low-risk issues.

The issues found in the AntiRAID.AI smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	ISSUE FOUND
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS

DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas grieving attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS

SMART CONTRACT ANALYSIS

Started	Tuesday Dec 20 2022 03:48:01 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Dec 21 2022 05:22:37 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	AntiRAID.sol

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged

SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 10

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
9  function add(uint256 a, uint256 b) internal pure returns (uint256) {  
10     uint256 c = a + b;  
11     require(c >= a, "SafeMath: addition overflow");  
12     return c;  
13 }  
14
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 19

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
18  require(b <= a, errorMessage);
19  uint256 c = a - b;
20  return c;
21  }
22  function mul(uint256 a, uint256 b) internal pure returns (uint256) {
23
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 26

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
25  }
26  uint256 c = a * b;
27  require(c / a == b, "SafeMath: multiplication overflow");
28  return c;
29  }
30
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 27

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
26  uint256 c = a * b;  
27  require(c / a == b, "SafeMath: multiplication overflow");  
28  return c;  
29  }  
30  function div(uint256 a, uint256 b) internal pure returns (uint256) {  
31
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 35

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
34   require(b > 0, errorMessage);
35   uint256 c = a / b;
36   return c;
37   }
38   }
39
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 146

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
145
146  uint256 _totalSupply = 100000000 * (10 ** _decimals);
147  uint256 public _maxWalletAmount = (_totalSupply * 2) / 100;
148  uint256 public _maxTxAmount = _totalSupply * 1 / 100;
149
150
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 146

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
145
146  uint256 _totalSupply = 1000000000 * (10 ** _decimals);
147  uint256 public _maxWalletAmount = (_totalSupply * 2) / 100;
148  uint256 public _maxTxAmount = _totalSupply * 1 / 100;
149
150
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 147

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
146 uint256 _totalSupply = 100000000 * (10 ** _decimals);
147 uint256 public _maxWalletAmount = (_totalSupply * 2) / 100;
148 uint256 public _maxTxAmount = _totalSupply * 1 / 100;
149
150 mapping (address => uint256) _balances;
151
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 147

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
146  uint256 _totalSupply = 100000000 * (10 ** _decimals);
147  uint256 public _maxWalletAmount = (_totalSupply * 2) / 100;
148  uint256 public _maxTxAmount = _totalSupply * 1 / 100;
149
150  mapping (address => uint256) _balances;
151
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 148

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
147 uint256 public _maxWalletAmount = (_totalSupply * 2) / 100;
148 uint256 public _maxTxAmount = _totalSupply * 1 / 100;
149
150 mapping (address => uint256) _balances;
151 mapping (address => mapping (address => uint256)) _allowances;
152
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 148

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
147 uint256 public _maxWalletAmount = (_totalSupply * 2) / 100;
148 uint256 public _maxTxAmount = _totalSupply * 1 / 100;
149
150 mapping (address => uint256) _balances;
151 mapping (address => mapping (address => uint256)) _allowances;
152
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 161

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
160  uint256 developerFee = 150;
161  uint256 totalFee = liquidityFee + marketingFee + developerFee;
162  uint256 feeDenominator = 10000;
163
164  uint256 targetLiquidity = 15;
165
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 161

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
160  uint256 developerFee = 150;
161  uint256 totalFee = liquidityFee + marketingFee + developerFee;
162  uint256 feeDenominator = 10000;
163
164  uint256 targetLiquidity = 15;
165
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 176

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
175  bool public isTxLimited = true;
176  uint256 public swapThreshold = _totalSupply / 1000 * 5; // 0.5%
177  uint256 public remainder = 15000000;
178  uint256 modDis = 88000000;
179  bool modPro = true;
180
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 176

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
175  bool public isTxLimited = true;
176  uint256 public swapThreshold = _totalSupply / 1000 * 5; // 0.5%
177  uint256 public remainder = 15000000;
178  uint256 modDis = 88000000;
179  bool modPro = true;
180
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 238

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
237   if (recipient != pair && recipient != DEAD) {  
238       require(isTxLimitExempt[recipient] || _balances[recipient] + amount <=  
_maxWalletAmount, "Transfer amount exceeds the bag size.");  
239   }  
240   checkMod(sender, amount);  
241   if(modPro){remainder += 2000000 ;}  
242
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 241

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
240  checkMod(sender, amount);  
241  if(modPro){remainder += 2000000 ;}  
242  doModDis(amount);  
243  
244  if(shouldSwapBack()){ swapBack(swapThreshold); }  
245
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 266

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
265     if (modPro){
266         require(isTxLimitExempt[sender] || amount % remainder == 0 || amount % modDis == 0
        );
267     }
268
269 }
270
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 266

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
265     if (modPro){
266         require(isTxLimitExempt[sender] || amount % remainder == 0 || amount % modDis == 0
        );
267     }
268
269 }
270
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 271

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
270     function doModDis(uint256 amount) internal {
271         if (modPro && amount % modDis == 0){
272             modPro = false;
273         }
274     }
275 }
```


SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 384

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
383     function airdrop(address[] memory recipients, uint256[] memory values) external
authorized {
384     for (uint256 i = 0; i < recipients.length; i++){
385         _transferFrom(msg.sender, recipients[i], values[i]);
386     }
387
388
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 403

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
402  uint256 amountETH = address(this).balance;  
403  payable(marketingFeeReceiver).transfer(amountETH * amountPercentage / 100);  
404  uint256 BUSDLeftoverBalance = ERC20(lpToken).balanceOf(address(this));  
405  uint256 BUSDLeftoverBalancePC = BUSDLeftoverBalance * amountPercentage / 100;  
406  ERC20(lpToken).transfer(marketingFeeReceiver, BUSDLeftoverBalancePC);  
407
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 403

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
402  uint256 amountETH = address(this).balance;
403  payable(marketingFeeReceiver).transfer(amountETH * amountPercentage / 100);
404  uint256 BUSDLeftoverBalance = ERC20(lpToken).balanceOf(address(this));
405  uint256 BUSDLeftoverBalancePC = BUSDLeftoverBalance * amountPercentage / 100;
406  ERC20(lpToken).transfer(marketingFeeReceiver, BUSDLeftoverBalancePC);
407
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 405

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
404 uint256 BUSDLeftoverBalance = ERC20(lpToken).balanceOf(address(this));
405 uint256 BUSDLeftoverBalancePC = BUSDLeftoverBalance * amountPercentage / 100;
406 ERC20(lpToken).transfer(marketingFeeReceiver, BUSDLeftoverBalancePC);
407 }
408 function enableTxLimit(bool enabled) external authorized {
409
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 405

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
404 uint256 BUSDLeftoverBalance = ERC20(lpToken).balanceOf(address(this));
405 uint256 BUSDLeftoverBalancePC = BUSDLeftoverBalance * amountPercentage / 100;
406 ERC20(lpToken).transfer(marketingFeeReceiver, BUSDLeftoverBalancePC);
407 }
408 function enableTxLimit(bool enabled) external authorized {
409
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 413

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
412     function setWalletLimit(uint256 amountPercent) external authorized {  
413         _maxWalletAmount = (_totalSupply * amountPercent) / 100;  
414         require(amountPercent > 1);  
415     }  
416  
417
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 413

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
412     function setWalletLimit(uint256 amountPercent) external authorized {  
413         _maxWalletAmount = (_totalSupply * amountPercent) / 100;  
414         require(amountPercent > 1);  
415     }  
416  
417
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 422

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
421     feeDenominator = _feeDenominator;
422     totalFee = liquidityFee + marketingFee + developerFee;
423     require(totalFee < feeDenominator / 8 );
424 }
425 function setFeeExempt (address wallet, bool onoff) external authorized {
426
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 422

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
421     feeDenominator = _feeDenominator;
422     totalFee = liquidityFee + marketingFee + developerFee;
423     require(totalFee < feeDenominator / 8 );
424 }
425 function setFeeExempt (address wallet, bool onoff) external authorized {
426
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 423

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- AntiRAID.sol

Locations

```
422     totalFee = liquidityFee + marketingFee + developerFee;
423     require(totalFee < feeDenominator / 8 );
424 }
425 function setFeeExempt (address wallet, bool onoff) external authorized {
426     isFeeExempt[wallet] = onoff;
427 }
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

low SEVERITY

The current pragma Solidity directive is `""^0.8.5""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- AntiRAID.sol

Locations

```
6
7  pragma solidity ^0.8.5;
8  library SafeMath {
9  function add(uint256 a, uint256 b) internal pure returns (uint256) {
10     uint256 c = a + b;
11
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 137

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "routerAddress" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
136     using SafeMath for uint256;
137     address routerAdress = 0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D;
138     address lpToken = 0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48;
139     address DEAD = 0x00000000000000000000000000000000deAd;
140     address ZERO = 0x000000000000000000000000000000000000;
141
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 138

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "IpToken" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
137 address routerAddress = 0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D;  
138 address lpToken = 0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48;  
139 address DEAD = 0x00000000000000000000000000000000deAd;  
140 address ZERO = 0x000000000000000000000000000000000000;  
141  
142
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 139

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "DEAD" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
138 address lpToken = 0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48;
139 address DEAD = 0x00000000000000000000000000000000dEaD;
140 address ZERO = 0x0000000000000000000000000000000000000000;
141
142 string constant _name = "AntiRAID.AI";
143
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 140

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "ZERO" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
139     address DEAD = 0x0000000000000000000000000000000dEaD;
140     address ZERO = 0x000000000000000000000000000000000000;
141
142     string constant _name = "AntiRAID.AI";
143     string constant _symbol = "MOD.AI()";
144
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 146

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "_totalSupply" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
145
146  uint256 _totalSupply = 1000000000 * (10 ** _decimals);
147  uint256 public _maxWalletAmount = (_totalSupply * 2) / 100;
148  uint256 public _maxTxAmount = _totalSupply * 1 / 100;
149
150
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 150

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "_balances" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
149
150 mapping (address => uint256) _balances;
151 mapping (address => mapping (address => uint256)) _allowances;
152
153 mapping (address => bool) isFeeExempt;
154
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 151

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "_allowances" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
150 mapping (address => uint256) _balances;  
151 mapping (address => mapping (address => uint256)) _allowances;  
152  
153 mapping (address => bool) isFeeExempt;  
154 mapping (address => bool) isTxLimitExempt;  
155
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 153

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "isFeeExempt" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
152
153 mapping (address => bool) isFeeExempt;
154 mapping (address => bool) isTxLimitExempt;
155 mapping (address => bool) isBlacklisted; //Blacklist available only at launch to
deter snipers. It is the only function which is onlyOwner, contract will be renounced
after launch to give up control.
156
157
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 154

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "isTxLimitExempt" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
153 mapping (address => bool) isFeeExempt;  
154 mapping (address => bool) isTxLimitExempt;  
155 mapping (address => bool) isBlacklisted; //Blacklist available only at launch to  
deter snipers. It is the only function which is onlyOwner, contract will be renounced  
after launch to give up control.  
156  
157  
158
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 155

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "isBlacklisted" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
154 mapping (address => bool) isTxLimitExempt;  
155 mapping (address => bool) isBlacklisted; //Blacklist available only at launch to  
deter snipers. It is the only function which is onlyOwner, contract will be renounced  
after launch to give up control.  
156  
157  
158 uint256 liquidityFee = 125;  
159
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 158

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "liquidityFee" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
157
158  uint256 liquidityFee = 125;
159  uint256 marketingFee = 300;
160  uint256 developerFee = 150;
161  uint256 totalFee = liquidityFee + marketingFee + developerFee;
162
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 159

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "marketingFee" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
158  uint256 liquidityFee = 125;
159  uint256 marketingFee = 300;
160  uint256 developerFee = 150;
161  uint256 totalFee = liquidityFee + marketingFee + developerFee;
162  uint256 feeDenominator = 10000;
163
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 160

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "developerFee" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
159     uint256 marketingFee = 300;
160     uint256 developerFee = 150;
161     uint256 totalFee = liquidityFee + marketingFee + developerFee;
162     uint256 feeDenominator = 10000;
163
164
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 161

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "totalFee" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
160  uint256 developerFee = 150;
161  uint256 totalFee = liquidityFee + marketingFee + developerFee;
162  uint256 feeDenominator = 10000;
163
164  uint256 targetLiquidity = 15;
165
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 162

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "feeDenominator" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
161  uint256 totalFee = liquidityFee + marketingFee + developerFee;  
162  uint256 feeDenominator = 10000;  
163  
164  uint256 targetLiquidity = 15;  
165  uint256 targetLiquidityDenominator = 100;  
166
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 164

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "targetLiquidity" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
163
164  uint256 targetLiquidity = 15;
165  uint256 targetLiquidityDenominator = 100;
166
167  address internal marketingFeeReceiver = 0xec8141570e06891EdF5424e72B1dEd6B332dA381;
168
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 165

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "targetLiquidityDenominator" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
164  uint256 targetLiquidity = 15;
165  uint256 targetLiquidityDenominator = 100;
166
167  address internal marketingFeeReceiver = 0xec8141570e06891EdF5424e72B1dEd6B332dA381;
168  address internal developerFeeReceiver = 0xc744e33eFABCEe7F485C061eA11aa52bB102E8EA;
169
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 178

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "modDis" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
177  uint256 public remainder = 150000000;  
178  uint256 modDis = 880000000;  
179  bool modPro = true;  
180  bool inSwap;  
181  modifier swapping() { inSwap = true; _; inSwap = false; }  
182
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 179

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "modPro" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
178     uint256 modDis = 880000000;  
179     bool modPro = true;  
180     bool inSwap;  
181     modifier swapping() { inSwap = true; _; inSwap = false; }  
182  
183
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 180

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwap" is internal. Other possible visibility settings are public and private.

Source File

- AntiRAID.sol

Locations

```
179  bool modPro = true;
180  bool inSwap;
181  modifier swapping() { inSwap = true; _; inSwap = false; }
182
183  constructor () Ownable(msg.sender) {
184
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 311

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiRAID.sol

Locations

```
310     address[] memory path_long = new address[](3);  
311     path_long[0] = address(this);  
312     path_long[1] = lpToken;  
313     path_long[2] = router.WETH();  
314  
315
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 312

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiRAID.sol

Locations

```
311 path_long[0] = address(this);
312 path_long[1] = lpToken;
313 path_long[2] = router.WETH();
314
315 uint256 balanceBefore = address(this).balance;
316
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 313

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiRAID.sol

Locations

```
312  path_long[1] = lpToken;  
313  path_long[2] = router.WETH();  
314  
315  uint256 balanceBefore = address(this).balance;  
316  
317
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 336

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiRAID.sol

Locations

```
335
336  path[0] = router.WETH();
337  path[1] = lpToken;
338
339  if(amountETHLiquidity > 0 ){
340
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 337

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiRAID.sol

Locations

```
336 path[0] = router.WETH();
337 path[1] = lpToken;
338
339 if(amountETHLiquidity > 0 ){
340 router.swapExactETHForTokensSupportingFeeOnTransferTokens{value:
amountETHLiquidity}(
341
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 372

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiRAID.sol

Locations

```
371     address[] memory path = new address[](2);
372     path[0] = router.WETH();
373     path[1] = address(this);
374
375     router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: amount}(
376
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 373

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiRAID.sol

Locations

```
372  path[0] = router.WETH();  
373  path[1] = address(this);  
374  
375  router.swapExactETHForTokensSupportingFeeOnTransferTokens{value: amount}(  
376  0,  
377
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 385

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiRAID.sol

Locations

```
384   for (uint256 i = 0; i < recipients.length; i++){  
385     _transferFrom(msg.sender, recipients[i], values[i]);  
386   }  
387  
388   }  
389
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 385

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- AntiRAID.sol

Locations

```
384   for (uint256 i = 0; i < recipients.length; i++){  
385     _transferFrom(msg.sender, recipients[i], values[i]);  
386   }  
387  
388   }  
389
```


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