



RabbitAI

Smart Contract Audit Report

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Disclaimer

About Us

AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
RabbitAI	Rabbit Ye...	Binance Smart Chain

Addresses

Contract address	0xfC64BB63E5a91250114d12fF0b9376b125660656
Contract deployer address	0xeeeb10e1462873850d88A2c335215E755E3aF157

Project Website

<https://www.rabbityear2023.net/>

Codebase

<https://bscscan.com/address/0xfC64BB63E5a91250114d12fF0b9376b125660656#code>

SUMMARY

RabbitAI is a revolutionary new platform that brings the power of AI and blockchain technology together and is operated as a DAO. With our AI-assisted dashboard, users can easily create and deploy complex blockchain projects in minutes, without the need for expensive development costs or long waiting times. Plus, with our unique token burn model, every time a user deploys a contract on our platform, they are contributing to the stability and growth of the Rabbit token. Join the RabbitAI revolution! 1% tax.

Contract Summary

Documentation Quality

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

- The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by RabbitAI 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 110, 149 and 157.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 123, 123, 305, 333, 365, 365, 411, 423, 423, 427, 427, 428, 428, 430, 430, 431, 432, 512, 512, 568, 568, 569, 569, 586, 587, 587, 588, 588, 602, 604, 628, 628, 630 and 634.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- 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 528, 529, 587, 588 and 588.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 469.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 565.

CONCLUSION

We have audited the RabbitAI project released on January 2023 to discover issues and identify potential security vulnerabilities in RabbitAI 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 RabbitAI 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, state variable visibility is not set, and the Potential use of "block.number" as a source of randomness. We recommended specifying 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, and don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

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.	ISSUE FOUND
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.	ISSUE FOUND
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 griefing 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 <code>abi.encodePacked()</code> with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The <code>transfer()</code> and <code>send()</code> 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	Saturday Jan 28 2023 10:30:55 GMT+0000 (Coordinated Universal Time)
Finished	Sunday Jan 29 2023 22:54:50 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	RabbitAI.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	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 123

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
122  uint8 constant private _decimals = 9;
123  uint256 constant private _tTotal = startingSupply * 10**_decimals;
124
125  struct Fees {
126    uint16 buyFee;
127
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 123

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
122 uint8 constant private _decimals = 9;
123 uint256 constant private _tTotal = startingSupply * 10**_decimals;
124
125 struct Fees {
126     uint16 buyFee;
127
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 305

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
304     if (_allowances[sender][msg.sender] != type(uint256).max) {
305         _allowances[sender][msg.sender] -= amount;
306     }
307
308     return _transfer(sender, recipient, amount);
309
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 333

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
332  if (timeSinceLastPair != 0) {
333  require(block.timestamp - timeSinceLastPair > 3 days, "3 Day cooldown.");
334  }
335  require(!lpPairs[pair], "Pair already added to list.");
336  lpPairs[pair] = true;
337
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 365

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
364     function getCirculatingSupply() public view returns (uint256) {
365         return (_tTotal - (balanceOf(DEAD) + balanceOf(address(0))));
366     }
367
368
369
```


SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 365

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
364     function getCirculatingSupply() public view returns (uint256) {  
365         return (_tTotal - (balanceOf(DEAD) + balanceOf(address(0))));  
366     }  
367  
368  
369
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 411

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
410     "Cannot exceed maximums.");  
411     require(buyFee + sellFee <= maxRoundtripTax, "Cannot exceed roundtrip maximum.");  
412     _taxRates.buyFee = buyFee;  
413     _taxRates.sellFee = sellFee;  
414     _taxRates.transferFee = transferFee;  
415
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 423

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
422 function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
423     return((balanceOf(lpPair) * priceImpactInHundreds) / masterTaxDivisor);
424 }
425
426 function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
427
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 423

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
422 function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
423     return((balanceOf(lpPair) * priceImpactInHundreds) / masterTaxDivisor);
424 }
425
426 function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
427
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 427

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
426 function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
427     swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
428     swapAmount = (_tTotal * amountPercent) / amountDivisor;
429     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
430     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
431 }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 427

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
426 function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
427     swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
428     swapAmount = (_tTotal * amountPercent) / amountDivisor;
429     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
430     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
431 }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 428

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
427 swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
428 swapAmount = (_tTotal * amountPercent) / amountDivisor;
429 require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
430 require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
431 require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
432
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 428

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
427 swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
428 swapAmount = (_tTotal * amountPercent) / amountDivisor;
429 require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
430 require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
431 require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
432
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 430

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
429     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
430     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
431     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
432     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
433     }
434
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 430

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
429     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
430     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
431     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
432     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
433     }
434
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 431

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
430   require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
431   require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
432   require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
433   }
434
435
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 432

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
431   require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
432   require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
433   }
434
435   function setPriceImpactSwapAmount(uint256 priceImpactSwapPercent) external
onlyOwner {
436
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 512

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
511     uint256 swapAmt = swapAmount;
512     if (piContractSwapsEnabled) { swapAmt = (balanceOf(lpPair) * piSwapPercent) /
masterTaxDivisor; }
513     if (contractTokenBalance >= swapAmt) { contractTokenBalance = swapAmt; }
514     contractSwap(contractTokenBalance);
515 }
516
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 512

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
511     uint256 swapAmt = swapAmount;
512     if (piContractSwapsEnabled) { swapAmt = (balanceOf(lpPair) * piSwapPercent) /
masterTaxDivisor; }
513     if (contractTokenBalance >= swapAmt) { contractTokenBalance = swapAmt; }
514     contractSwap(contractTokenBalance);
515 }
516
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 568

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
567     allowedPresaleExclusion = false;
568     swapThreshold = (balanceOf(lpPair) * 10) / 10000;
569     swapAmount = (balanceOf(lpPair) * 30) / 10000;
570     launchStamp = block.timestamp;
571 }
572
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 568

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
567     allowedPresaleExclusion = false;
568     swapThreshold = (balanceOf(lpPair) * 10) / 10000;
569     swapAmount = (balanceOf(lpPair) * 30) / 10000;
570     launchStamp = block.timestamp;
571 }
572
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 569

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
568 swapThreshold = (balanceOf(lpPair) * 10) / 10000;  
569 swapAmount = (balanceOf(lpPair) * 30) / 10000;  
570 launchStamp = block.timestamp;  
571 }  
572  
573
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 569

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
568 swapThreshold = (balanceOf(lpPair) * 10) / 10000;  
569 swapAmount = (balanceOf(lpPair) * 30) / 10000;  
570 launchStamp = block.timestamp;  
571 }  
572  
573
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 586

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
585     require(accounts.length == amounts.length, "Lengths do not match.");
586     for (uint16 i = 0; i < accounts.length; i++) {
587         require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
588         finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
589     }
590
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 587

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
586   for (uint16 i = 0; i < accounts.length; i++) {
587     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
588     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
589   }
590 }
591
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 587

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
586   for (uint16 i = 0; i < accounts.length; i++) {
587     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
588     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
589   }
590 }
591
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 588

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
587     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
588     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
589     }
590     }
591
592
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 588

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
587     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
588     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
589     }
590     }
591
592
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 602

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
601     }
602     _tOwned[from] -= amount;
603     uint256 amountReceived = (takeFee) ? takeTaxes(from, buy, sell, amount) : amount;
604     _tOwned[to] += amountReceived;
605     emit Transfer(from, to, amountReceived);
606
```


SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 604

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
603 uint256 amountReceived = (takeFee) ? takeTaxes(from, buy, sell, amount) : amount;
604 _tOwned[to] += amountReceived;
605 emit Transfer(from, to, amountReceived);
606 if (!_hasLiqBeenAdded) {
607     _checkLiquidityAdd(from, to);
608 }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 628

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
627  || block.chainid == 56)) { currentFee = 4500; }
628  uint256 feeAmount = amount * currentFee / masterTaxDivisor;
629  if (feeAmount > 0) {
630    _tOwned[address(this)] += feeAmount;
631    emit Transfer(from, address(this), feeAmount);
632  }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 628

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
627     || block.chainid == 56)) { currentFee = 4500; }
628     uint256 feeAmount = amount * currentFee / masterTaxDivisor;
629     if (feeAmount > 0) {
630         _tOwned[address(this)] += feeAmount;
631         emit Transfer(from, address(this), feeAmount);
632     }
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 630

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
629     if (feeAmount > 0) {
630         _tOwned[address(this)] += feeAmount;
631         emit Transfer(from, address(this), feeAmount);
632     }
633
634
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 634

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
633  
634     return amount - feeAmount;  
635     }  
636     }  
637
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

low SEVERITY

The current pragma Solidity directive is "">=0.6.0<0.9.0"". 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

- RabbitAI.sol

Locations

```
5 // SPDX-License-Identifier: MIT
6 pragma solidity >=0.6.0 <0.9.0;
7
8 interface IERC20 {
9     function totalSupply() external view returns (uint256);
10
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 110

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
109 mapping (address => uint256) private _tOwned;
110 mapping (address => bool) lpPairs;
111 uint256 private timeSinceLastPair = 0;
112 mapping (address => mapping (address => uint256)) private _allowances;
113 mapping (address => bool) private _liquidityHolders;
114
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 149

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

- RabbitAI.sol

Locations

```
148
149 bool inSwap;
150 bool public contractSwapEnabled = false;
151 uint256 public swapThreshold;
152 uint256 public swapAmount;
153
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 157

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
156  bool public _hasLiqBeenAdded = false;
157  Protections protections;
158  uint256 public launchStamp;
159
160  event ContractSwapEnabledUpdated(bool enabled);
161
```

SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 469

low SEVERITY

The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead.

Source File

- RabbitAI.sol

Locations

```
468    && to != _owner
469    && tx.origin != _owner
470    && !_liquidityHolders[to]
471    && !_liquidityHolders[from]
472    && to != DEAD
473
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 528

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
527     address[] memory path = new address[](2);
528     path[0] = address(this);
529     path[1] = dexRouter.WETH();
530
531     try dexRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(
532
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 529

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
528 path[0] = address(this);  
529 path[1] = dexRouter.WETH();  
530  
531 try dexRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(  
532 contractTokenBalance,  
533
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 587

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
586   for (uint16 i = 0; i < accounts.length; i++) {
587     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
588     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
589   }
590 }
591
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 588

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
587     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
588     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
589   }
590 }
591
592
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 588

low SEVERITY

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

Source File

- RabbitAI.sol

Locations

```
587     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
588     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
589   }
590 }
591
592
```

SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 565

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- RabbitAI.sol

Locations

```
564     }  
565     try protections.setLaunch(lpPair, uint32(block.number), uint64(block.timestamp),  
_decimals) {} catch {}  
566     tradingEnabled = true;  
567     allowedPresaleExclusion = false;  
568     swapThreshold = (balanceOf(lpPair) * 10) / 10000;  
569
```


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