

RabbitAI

Smart Contract Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
RabbitAl	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

RabbitAl 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 RabbitAl project released on January 2023 to discover issues and identify potential security vulnerabilities in RabbitAl 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.	it PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	lowed 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	, ,		
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.	s should only be allowed to trusted 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.	
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	-121 Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	
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.	
Write to Arbitrary Storage Location	SWC-124 authorized user or contract accounts may write to		PASS
Incorrect Inheritance Order	SWC-125		PASS
Insufficient Gas Griefing	SWC-126 contracts which accept data and use it in a sub-call on		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.	
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.	
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.	
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	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	RabbitAl.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



LINE 123

low SEVERITY

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

Source File

- RabbitAI.sol

```
uint8 constant private _decimals = 9;
uint256 constant private _tTotal = startingSupply * 10**_decimals;

struct Fees {
uint16 buyFee;
```



LINE 123

low SEVERITY

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

Source File

- RabbitAI.sol

```
uint8 constant private _decimals = 9;
uint256 constant private _tTotal = startingSupply * 10**_decimals;

struct Fees {
uint16 buyFee;
```



LINE 305

low SEVERITY

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

Source File

- RabbitAI.sol

```
if (_allowances[sender][msg.sender] != type(uint256).max) {
    _allowances[sender][msg.sender] -= amount;
}

return _transfer(sender, recipient, amount);
}
```



LINE 333

low SEVERITY

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

Source File

- RabbitAI.sol

```
if (timeSinceLastPair != 0) {
   require(block.timestamp - timeSinceLastPair > 3 days, "3 Day cooldown.");
}

require(!lpPairs[pair], "Pair already added to list.");

lpPairs[pair] = true;
```



LINE 365

low SEVERITY

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

Source File

- RabbitAI.sol

```
function getCirculatingSupply() public view returns (uint256) {
  return (_tTotal - (balanceOf(DEAD) + balanceOf(address(0))));
}

367

368
369
```



LINE 365

low SEVERITY

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

Source File

- RabbitAI.sol

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



LINE 411

low SEVERITY

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

Source File

- RabbitAI.sol

```
"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</pre>
```



LINE 423

low SEVERITY

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

Source File

- RabbitAl.sol

```
function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) / masterTaxDivisor);

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) / masterTaxDivisor);

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) / masterTaxDivisor);

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external onlyowner

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external onlyowner

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) / masterTaxDivisor);

function getTokenAmountAtP
```



LINE 423

low SEVERITY

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

Source File

- RabbitAl.sol

```
function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) / masterTaxDivisor);

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) / masterTaxDivisor);

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) / masterTaxDivisor);

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external onlyowner

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external onlyowner

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {

function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) / masterTaxDivisor);

function getTokenAmountAtP
```



LINE 427

low SEVERITY

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

Source File

- RabbitAl.sol

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



LINE 427

low SEVERITY

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

Source File

- RabbitAl.sol

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



LINE 428

low SEVERITY

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

Source File

- RabbitAl.sol

```
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
```



LINE 428

low SEVERITY

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

Source File

- RabbitAl.sol

```
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
```



LINE 430

low SEVERITY

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

Source File

- RabbitAl.sol

```
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
```



LINE 430

low SEVERITY

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

Source File

- RabbitAl.sol

```
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
```



LINE 431

low SEVERITY

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

Source File

- RabbitAI.sol

```
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
```



LINE 432

low SEVERITY

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

Source File

- RabbitAl.sol

```
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
```



LINE 512

low SEVERITY

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

Source File

- RabbitAl.sol

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



LINE 512

low SEVERITY

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

Source File

- RabbitAl.sol

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



LINE 568

low SEVERITY

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

Source File

- RabbitAl.sol

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



LINE 568

low SEVERITY

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

Source File

- RabbitAI.sol

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



LINE 569

low SEVERITY

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

Source File

- RabbitAl.sol

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



LINE 569

low SEVERITY

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

Source File

- RabbitAI.sol

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



LINE 586

low SEVERITY

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

Source File

- RabbitAl.sol

```
require(accounts.length == amounts.length, "Lengths do not match.");

for (uint16 i = 0; i < accounts.length; i++) {

require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");

finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false, true);

}

}
```



LINE 587

low SEVERITY

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

Source File

- RabbitAI.sol

```
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

```
for (uint16 i = 0; i < accounts.length; i++) {
for require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
for finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false, false, false);
for (uint16 i = 0; i < accounts.length; i++) {
for finalizeTransfer(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
for finalizeTransfer(msg.sender) >= amounts[i]*10**_decimals, false, false, false, false);
for finalizeTransfer(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
for finalizeTransfer(msg.sender) >= amounts[i]*10**_decimals, false, false, false, false, false);
for finalizeTransfer(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
for finalizeTransfer(msg.sender) >= amounts[i]*10**_decimals, false, f
```



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 588

low SEVERITY

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

Source File

- RabbitAI.sol

```
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

```
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 602

low SEVERITY

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

Source File

- RabbitAI.sol

```
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

- RabbitAl.sol

```
uint256 amountReceived = (takeFee) ? takeTaxes(from, buy, sell, amount) : amount;

touth amountReceived;

emit Transfer(from, to, amountReceived);

if (!_hasLiqBeenAdded) {

   _checkLiquidityAdd(from, to);

emit Transfer(from, to, amountReceived);

for amountReceived;

for am
```



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 628

low SEVERITY

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

Source File

- RabbitAl.sol

```
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

- RabbitAl.sol

```
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

```
if (feeAmount > 0) {
    _tOwned[address(this)] += feeAmount;
    emit Transfer(from, address(this), feeAmount);
    }
    }
    33
    }
```



SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 634

low SEVERITY

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

Source File

- RabbitAI.sol

```
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

```
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</pre>
```



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 "IpPairs" is internal. Other possible visibility settings are public and private.

Source File

- RabbitAl.sol

```
mapping (address => uint256) private _tOwned;
mapping (address => bool) lpPairs;
uint256 private timeSinceLastPair = 0;
mapping (address => mapping (address => uint256)) private _allowances;
mapping (address => bool) private _liquidityHolders;
```



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

- RabbitAl.sol

```
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

- RabbitAl.sol

```
bool public _hasLiqBeenAdded = false;
Protections protections;
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

- RabbitAl.sol

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



LINE 528

low SEVERITY

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

Source File

- RabbitAl.sol

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



LINE 529

low SEVERITY

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

Source File

- RabbitAl.sol

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



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

```
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
```



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

```
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
```



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

```
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-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

- RabbitAl.sol

```
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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