

Smart Contract Security Audit V1

Raju Presale Smart Contract

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Table of Contents

Table of Contents

Background

Project Information

Smart Contract Information

Executive Summary

File and Function Level Report

File in Scope:

Issues Checking Status

Severity Definitions

Audit Findings

Automatic testing

Testing proves

Inheritance graph

Call graph

Unified Modeling Language (UML)

Functions signature

Automatic general report

Conclusion

Disclaimer

Background

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Project Information

- **Platform:** Polygon
- **Contract Address:** 0xb2aAF43Ebd6CE58fB3C35556DAE3B3B4416c74E7
- **Code Source:**

<https://github.com/Saferico/Smart-Contracts-for-Projects/blob/main/%20Raju%20contracts/RajuPresale.sol>

Contracts address deployed to test net (Polygon)

Raju Presale smart contract on Polygon test-net by the auditor to test every function (Polygon Test Net)

<https://mumbai.polygonscan.com/address/0xb2aaf43ebd6ce58fb3c35556dae3b3b4416c74e7>

Smart Contract Information

- Name: Raju Presale
- Phase 1: Whitelist, vesting term, buy

* Whitelist:

Only whitelisted members can buy tokens on the IDO site.

* Referral system

Any token holder can invite others.

Add invited members to the whitelist.

The inviter will receive a referral commission rate according to the buy amount of the invited member.

* Vesting term.

30% instantly, then xx% everyday till unlock 70% from Phase3.

* Buy

No selling here. Users only can buy tokens in fixed price (price1) with buying tax.

Details:

Price: 0.01\$

Commission rate: 2%

Rebasing Rate: 2.81% per day

Phase1 period: 25 days

Phase 2: Referral system, buy/sell

* Referral system

Same as Phase1.

* Buy/Sell

Users can buy/sell tokens in fixed price (price 2) with buy/sell tax.

Details:

Vesting term: no

Price: 0.02\$

Commission rate: 2%

Rebasing Rate: variable until starting

Phase2 period: variable until starting

Phase 3: Launching on dex

We will add liquidity on dex with funds from Phase 1,2. (by price3)

There will be buy/sell/p2p tax here.

No whitelist.

No referral system.

Start rebasing.

Details:

Price: \$22

Commission rate: no

Rebasing Rate: around xx% APY

Executive Summary

According to our assessment, the customer`s solidity smart contract is **Well Secured**.

| | |
|--------------|---|
| Well Secured | ✓ |
| Secured | |
| Poor Secured | |
| Insecure | |

Automated checks are with remix IDE. All issues were performed by the team, which included the analysis of code functionality, manual audit found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the audit overview section. The general overview is presented in the Project Information section and all issues found are located in the audit overview section.

Team found 0 critical, 0 high, 0 medium, 3 low, 0 very low-level issues and 1 note in all solidity files of the contract

The files:

RajuPresale.sol

File and Function Level Report

File in Scope:

| Contract Name | SHA 256 hash | Contract Address |
|-----------------|--|--|
| RajuPresale.sol | a607f8b537a1ac02040cdd51fa25322159ebc1e06d236f7b9a9fbfaa0c261e5e | 0xb2aAF43Ebd6CE58fB3C35556DAE3B3B4416c74E7 |

- Contract: RajuPresale
- Inherit: Ownable
- Observation: All passed including security check
- Test Report: passed
- Score: passed
- Conclusion: passed

| Function | Test Result | Type / Return Type | Score |
|--------------------|-------------|--------------------|--------|
| dailyRate | ✓ | Read / public | Passed |
| getClaimableAmount | ✓ | Read / public | Passed |
| getDepositedAmount | ✓ | Read / public | Passed |
| getPercentReleased | ✓ | Read / public | Passed |
| getRebaseRate | ✓ | Read / public | Passed |
| isList | ✓ | Read / public | Passed |
| isPresaleOpen | ✓ | Read / public | Passed |
| maxTokenSell | ✓ | Read / public | Passed |
| maxUsdcBuy | ✓ | Read / public | Passed |
| minTokenSell | ✓ | Read / public | Passed |
| minUsdcBuy | ✓ | Read / public | Passed |
| owner | ✓ | Read / public | Passed |

| | | | |
|-----------------------------------|---|------------------|--------|
| periods | ✓ | Read / public | Passed |
| preBuys | ✓ | Read / public | Passed |
| pToken | ✓ | Read / public | Passed |
| RATE_DECIMALS | ✓ | Read / public | Passed |
| rate1 | ✓ | Read / public | Passed |
| rate2 | ✓ | Read / public | Passed |
| REBASE_DECIMALS | ✓ | Read / public | Passed |
| rebaseRates | ✓ | Read / public | Passed |
| referralAccount | ✓ | Read / public | Passed |
| referralRate | ✓ | Read / public | Passed |
| startTimes | ✓ | Read / public | Passed |
| totalpTokenAmountToDis tribute | ✓ | Read / public | Passed |
| USDC_DECIMALS | ✓ | Read / public | Passed |
| usdc | ✓ | Read / public | Passed |
| usdcRaised | ✓ | Read / public | Passed |
| wallet | ✓ | Read / public | Passed |
| whiteListed | ✓ | Read / public | Passed |
| buyerAccounts | ✓ | Read / public | Passed |
| bought | ✓ | Read / public | Passed |
| buy | ✓ | Write / public | Passed |
| sell | ✓ | Write / public | Passed |
| closePrsale | ✓ | Write / public | Passed |
| claim | ✓ | Write / public | Passed |
| renounceOwnership | ✓ | Write / public | Passed |
| retreiveExcesspToken | ✓ | Write /public | Passed |
| retreiveUSDC | ✓ | Write / public | Passed |
| setDailyRate | ✓ | Write / public | Passed |
| setList | ✓ | Write / public | Passed |

| | | | |
|------------------------|---|----------------|---------------|
| setMaxBuyUsdc | ✓ | Write / public | Passed |
| setMinBuy | ✓ | Write / public | Passed |
| setMaxSellToken | ✓ | Write / public | Passed |
| setMinSellToken | ✓ | Write / public | Passed |
| setPhaseSetting | ✓ | Write / public | Passed |
| setPresaleTokenAddress | ✓ | Write / public | Passed |
| setRate1 | ✓ | Write / public | Passed |
| setRate2 | ✓ | Write / public | Passed |
| setReferralRate | ✓ | Write / public | Passed |
| setWallet | ✓ | Write / public | Passed |
| setWhitelist | ✓ | Write / public | Passed |
| startPresale | ✓ | Write / public | Passed |
| transferOwnership | ✓ | Write / public | Passed |
| update | ✓ | Write / public | Passed |

Issues Checking Status

| No. | Issue Description | Checking Status |
|-----|---|-------------------|
| 1 | Compiler warnings. | Passed |
| 2 | Race conditions and Reentrancy. Cross-function race conditions. | Passed |
| 3 | Possible delays in data delivery. | Passed |
| 4 | Oracle calls. | Passed |
| 5 | Design Logic. | Passed |
| 6 | Timestamp dependence. | Passed with notes |
| 7 | Integer Overflow and Underflow. | Passed |
| 8 | DoS with Revert. | Passed |
| 9 | DoS with block gas limit. | Passed with notes |
| 10 | Methods execution permissions. | Passed |
| 11 | Economy model. If application logic is based on an incorrect economic model, the application would not function correctly and participants would incur financial losses. This type of issue is most often found in bonus rewards systems, Staking and Farming contracts, Vault and Vesting contracts, etc. | Passed |
| 12 | The impact of the exchange rate on the logic. | Passed |
| 13 | Private user data leaks. | Passed |
| 14 | Malicious Event log. | Passed |
| 15 | Scoping and Declarations. | Passed |
| 16 | Uninitialized storage pointers. | Passed |
| 17 | Arithmetic accuracy. | Passed |

Severity Definitions

| Risk Level | Description |
|------------|--|
| Critical | Critical vulnerabilities are usually straightforward to exploit and can lead to tokens loss etc. |
| High | High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial functions |
| Medium | Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose |
| Low | Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution |
| Note | Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored. |

Audit Findings

Critical:

No Critical severity vulnerabilities were found.

High:

No High severity vulnerabilities were found.

Medium:

No Medium severity vulnerabilities were found.

Low:

#Missing zero address validation

Description

When the owner wants to add addresses to whitelist, he has to check for the zero address to make he didn't add the zero address.

```
function setWhitelist(address[] memory addresses, bool value) public onlyOwner{
    require(isList, "Whitelist disable");
    for (uint i = 0; i < addresses.length; i++) {
        whiteListed[addresses[i]] = value;
    }
}
```

Remediation

Use the require statement to check for zero addresses.

Status: **Closed**. Fixed in version 2.

#Pragam version not fixed

Description

It is a good practice to lock the solidity version for a live deployment (use 0.8.16 instead of ^0.8.0). contracts should be deployed with the same compiler version and flags that they have been tested the most with. Locking the pragma helps ensure that contracts do not accidentally get deployed using, for example, the latest compiler which may have higher risks of undiscovered bugs. Contracts may also be deployed by others and the pragma indicates the compiler version intended by the original authors.

Remediation

Remove the ^ sign to lock the pragma version.

Status: **Closed**. Fixed in version2

#Use of block.timestamp for comparisons

Description

The value of block.timestamp can be manipulated by the miner.
And conditions with strict equality is difficult to achieve -
block.timestamp

Remediation

Avoid use of block.timestamp

Status: **Acknowledged**

Very Low:

No Very Low severity vulnerabilities were found.

Notes:

#Missing SPDX-License-Identifier:

Warning: SPDX license identifier not provided in source file. Before publishing, consider adding a comment containing "SPDX-License-Identifier: <SPDX-License>" to each source file. Use "SPDX-License-Identifier: UNLICENSED" for non-open-source code. Please see <https://spdx.org> for more information .

Remediation

Add License Identifier

```
// SPDX-License-Identifier: MIT
```

Status: **Closed**. Fixed In version 2.

Automatic Testing

1- Check for security

a607f8b537a1ac02040cdd51fa25322159ebc1e06d236f7b9a9fbfaa0c261e5e
File: RajuPre... | Language: solidity | Size: 13468 bytes | Date: 2022-09-26T12:44:42.468Z

Critical High Medium Low Note
0 0 0 0 0



2- SOLIDITY STATIC ANALYSIS

SOLIDITY STATIC ANALYSIS

☒ Select all ☒ Autorun Run

Security

☒ Select Security

- ☒ Transaction origin:
'tx.origin' used
- ☒ Check-effects-interaction:
Potential reentrancy bugs
- ☒ Inline assembly:
Inline assembly used
- ☒ Block timestamp:
Can be influenced by miners
- ☒ Low level calls:
Should only be used by experienced devs
- ☒ Block hash:
Can be influenced by miners
- ☒ Selfdestruct:
Contracts using destructed contract can be broken

Gas & Economy

☒ Select Gas & Economy

- ☒ Gas costs:
Too high gas requirement of functions
- ☒ This on local calls:
Invocation of local functions via 'this'
- ☒ Delete dynamic array:
Use require/assert to ensure complete deletion
- ☒ For loop over dynamic array:
Iterations depend on dynamic array's size
- ☒ Ether transfer in loop:
Transferring Ether in a for/while/do-while loop

SOLIDITY STATIC ANALYSIS

ERC

☒ Select ERC

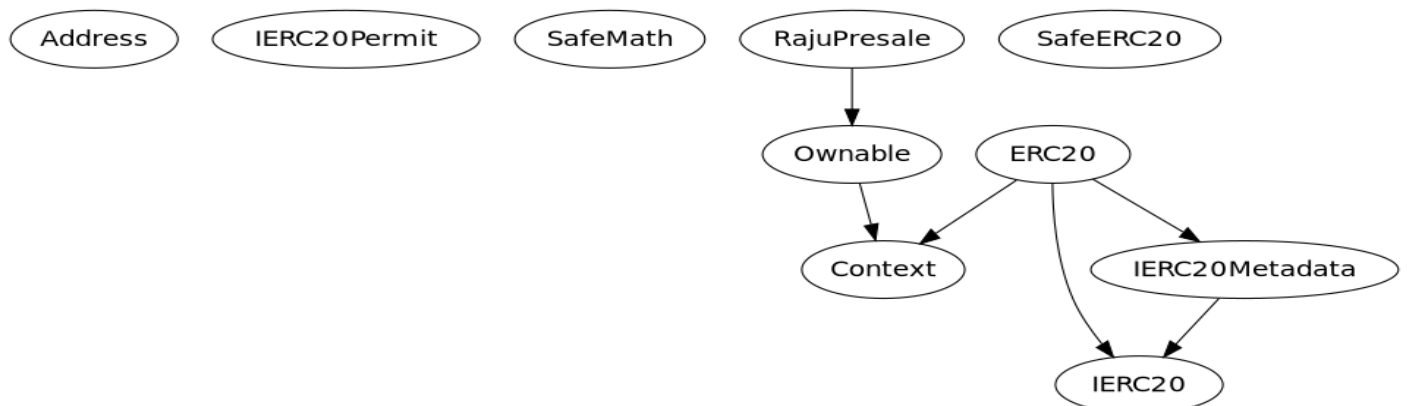
- ☒ ERC20:
'decimals' should be 'uint8'

Miscellaneous

☒ Select Miscellaneous

- ☒ Constant/View/Pure functions:
Potentially constant/view/pure functions
- ☒ Similar variable names:
Variable names are too similar
- ☒ No return:
Function with 'returns' not returning
- ☒ Guard conditions:
Ensure appropriate use of require/assert
- ☒ Result not used:
The result of an operation not used
- ☒ String length:
Bytes length != String length
- ☒ Delete from dynamic array:
'delete' leaves a gap in array
- ☒ Data truncated:
Division on int/uint values truncates the result

3- Inheritance graph



4- SOLIDITY UNIT TESTING

SOLIDITY UNIT TESTING

✓ >

Test your smart contract in Solidity.

Select directory to load and generate test files.

Test directory:

☒ Select all

☒ tests/RajuPresale_test.sol

Progress: 1 finished (of 1)

PASS testSuite

(tests/RajuPresale_test.sol)

✓ Before all

✓ Check success

✓ Check success2

✓ Check failure

✓ Check sender and value

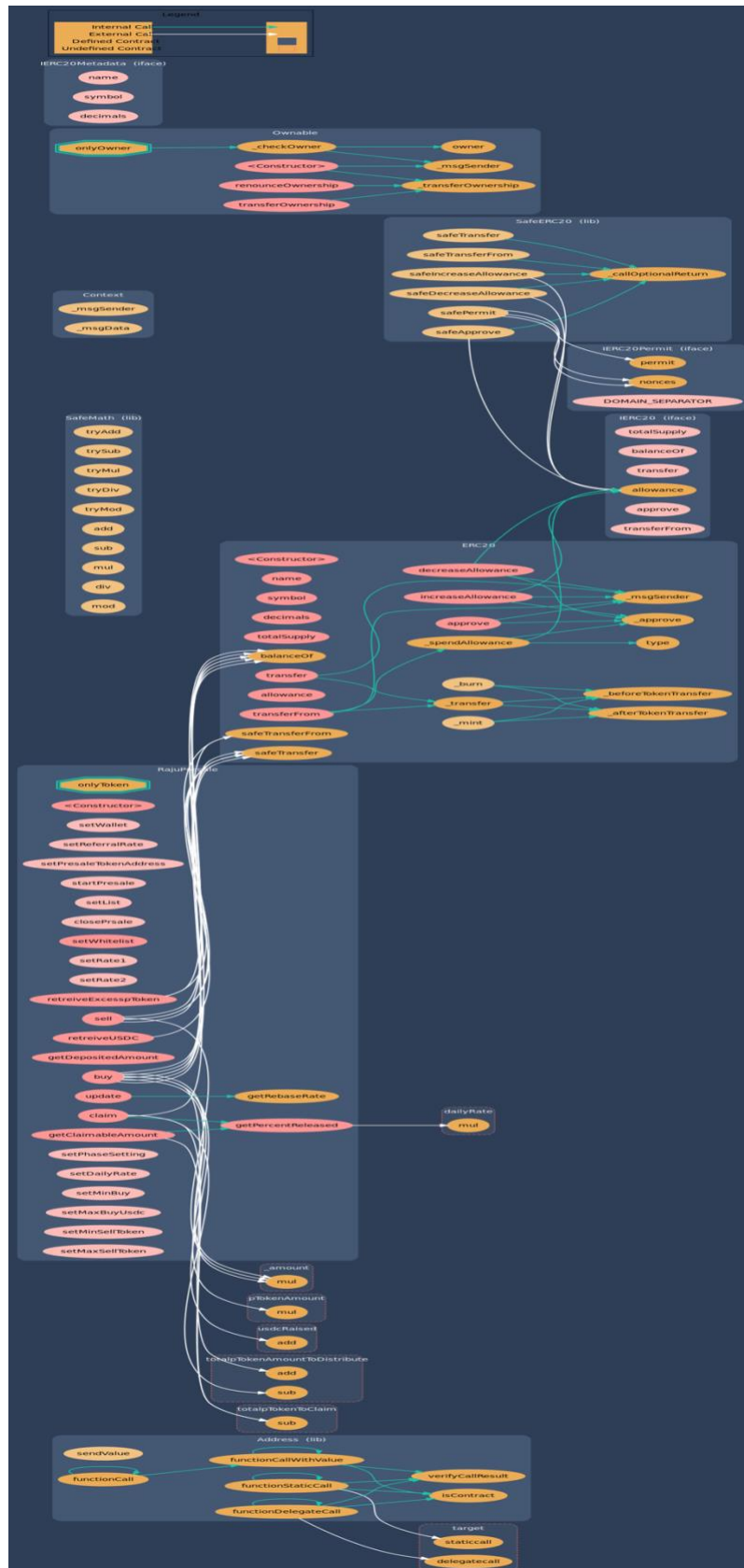
Result for tests/RajuPresale_test.sol

Passed: 5

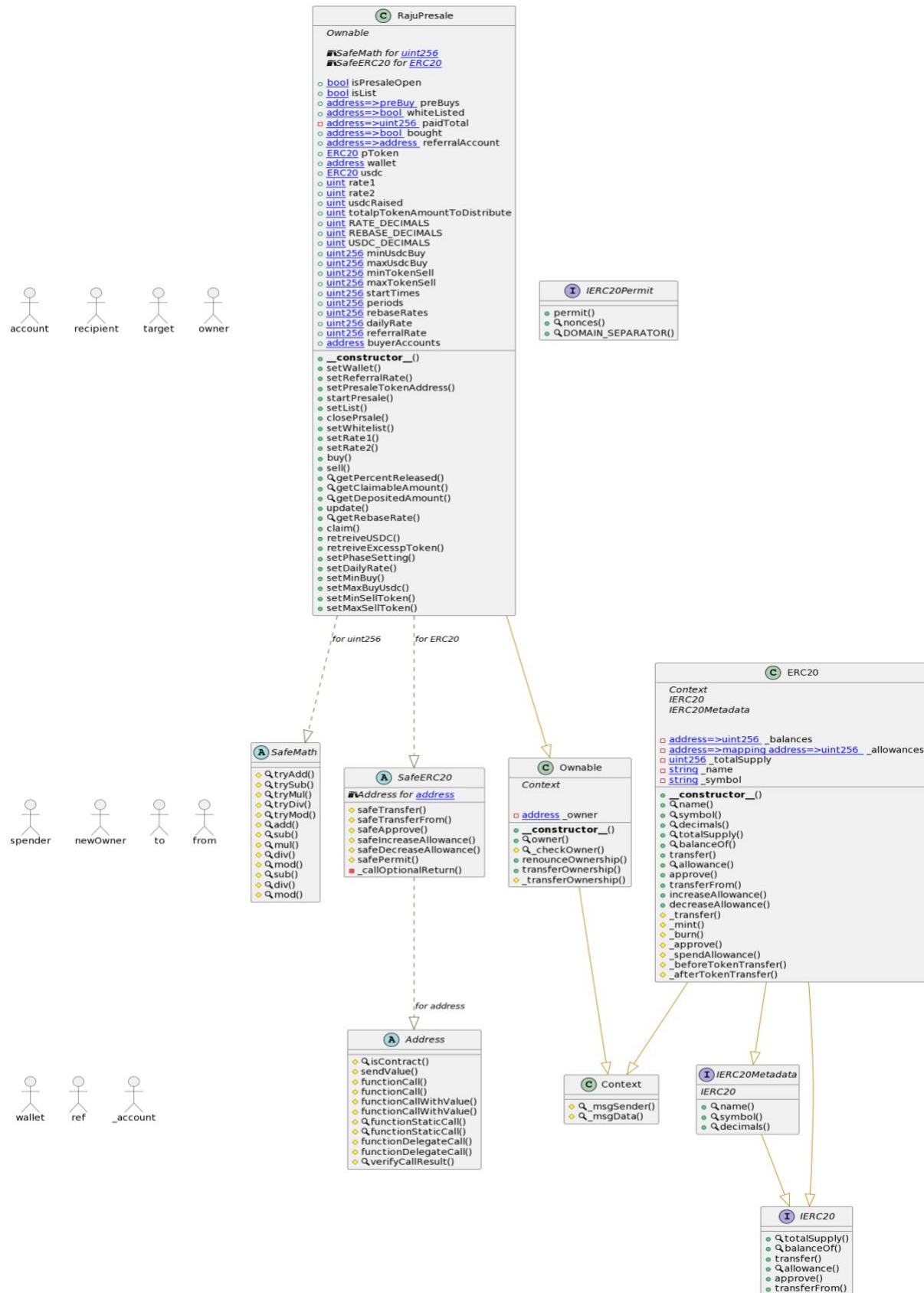
Failed: 0

Time Taken: 0.60s

5- Call graph



Unified Modeling Language (UML)



Functions signature

| Sighash | Function Signature |
|---------------------------|---|
| ===== | |
| 16279055 | => isContract (address) |
| 29028696 | => setList (bool) |
| 39509351 | => increaseAllowance (address, uint256) |
| 24a084df | => sendValue (address, uint256) |
| a0b5ffb0 | => functionCall (address, bytes) |
| 241b5886 | => functionCall (address, bytes, string) |
| 2a011594 | => functionCallWithValue (address, bytes, uint256) |
| d525ab8a | => functionCallWithValue (address, bytes, uint256, string) |
| c21d36f3 | => functionStaticCall (address, bytes) |
| dbc40fb9 | => functionStaticCall (address, bytes, string) |
| ee33b7e2 | => functionDelegateCall (address, bytes) |
| 57387df0 | => functionDelegateCall (address, bytes, string) |
| 946b5793 | => verifyCallResult (bool, bytes, string) |
| d505accf | => permit (address, address, uint256, uint256, uint8, bytes32, bytes32) |
| 7ecebe00 | => nonces (address) |
| 3644e515 | => DOMAIN_SEPARATOR () |
| 884557bf | => tryAdd (uint256, uint256) |
| a29962b1 | => trySub (uint256, uint256) |
| 6281efa4 | => tryMul (uint256, uint256) |
| 736ecb18 | => tryDiv (uint256, uint256) |
| 38dc0867 | => tryMod (uint256, uint256) |
| 771602f7 | => add (uint256, uint256) |
| b67d77c5 | => sub (uint256, uint256) |
| c8a4ac9c | => mul (uint256, uint256) |
| a391c15b | => div (uint256, uint256) |
| f43f523a | => mod (uint256, uint256) |
| e31bdc0a | => sub (uint256, uint256, string) |
| b745d336 | => div (uint256, uint256, string) |
| 71af23e8 | => mod (uint256, uint256, string) |
| 119df25f | => _msgSender () |
| 8b49d47e | => _msgData () |
| 8da5cb5b | => owner () |
| 53a72975 | => _checkOwner () |
| 715018a6 | => renounceOwnership () |
| f2fde38b | => transferOwnership (address) |
| d29d44ee | => _transferOwnership (address) |
| 18160ddd | => totalSupply () |
| 70a08231 | => balanceOf (address) |
| a9059cbb | => transfer (address, uint256) |
| dd62ed3e | => allowance (address, address) |
| 095ea7b3 | => approve (address, uint256) |
| 23b872dd | => transferFrom (address, address, uint256) |
| d0c407e1 | => safeTransfer (IERC20, address, uint256) |
| 5beae096 | => safeTransferFrom (IERC20, address, address, uint256) |
| d6dcec8d | => safeApprove (IERC20, address, uint256) |
| 390cc046 | => safeIncreaseAllowance (IERC20, address, uint256) |
| 5164ffed | => safeDecreaseAllowance (IERC20, address, uint256) |
| aecb368d | => |
| safePermit (IERC20Permit, | address, address, uint256, uint256, uint8, bytes32, bytes32) |
| becc5a20 | => _callOptionalReturn (IERC20, bytes) |
| 06fdde03 | => name () |
| 95d89b41 | => symbol () |
| 313ce567 | => decimals () |
| a457c2d7 | => decreaseAllowance (address, uint256) |

```
30e0789e => _transfer(address,address,uint256)
4e6ec247 => _mint(address,uint256)
6161eb18 => _burn(address,uint256)
104e81ff => _approve(address,address,uint256)
1532335e => _spendAllowance(address,address,uint256)
cad3be83 => _beforeTokenTransfer(address,address,uint256)
8f811a1c => _afterTokenTransfer(address,address,uint256)
deaa59df => setWallet(address)
ca4863fd => setReferralRate(uint256)
3c0c134d => setPresaleTokenAddress(address)
04c98b2b => startPresale()
75305fc6 => closePrsale()
3c271a05 => setWhitelist(address[],bool)
b86b14cd => setRate1(uint256)
79e32a62 => setRate2(uint256)
7deb6025 => buy(uint256,address)
e4849b32 => sell(uint256)
9cfd81f6 => getPercentReleased()
e12f3a61 => getClaimableAmount(address)
e9081ec7 => getDepositedAmount(address)
a2e62045 => update()
9e675d17 => getRebaseRate(uint256)
4e71d92d => claim()
e71f683a => retrieveUSDC(uint256)
3c9a26d0 => retrieveExcesspToken()
7e02899a => setPhaseSetting(uint256,uint256,uint256,uint256)
187ab7a2 => setDailyRate(uint256)
860779e7 => setMinBuy(uint256)
52d0c881 => setMaxBuyUsdc(uint256)
978a4081 => setMinSellToken(uint256)
626df490 => setMaxSellToken(uint256)
```

Automatic general report

Files Description Table

| File Name | SHA-1 Hash |
|--|--|
| /Users/macbook/Desktop/smart contracts/RajuPresale.sol | d5f683aa8dc2b6d1c6b2c5c8edda211b922317cd |















Contracts Description Table

| Contract | Type | Bases | | |
|---|-----------------------|----------------|----------------|----|
| :-----: :-----: :-----: :-----: :-----: | | | | |
| L | **Function Name** | **Visibility** | **Mutability** | |
| **Modifiers** | | | | |
| | | | | |
| **Address** | Library | | | |
| L | isContract | Internal | | |
| L | sendValue | Internal | | |
| L | functionCall | Internal | | |
| L | functionCall | Internal | | |
| L | functionCallWithValue | Internal | | |
| L | functionCallWithValue | Internal | | |
| L | functionStaticCall | Internal | | |
| L | functionStaticCall | Internal | | |
| L | functionDelegateCall | Internal | | |
| L | functionDelegateCall | Internal | | |
| L | verifyCallResult | Internal | | |
| | | | | |
| **IERC20Permit** | Interface | | | |
| L | permit | External | | NO |
| L | nonces | External | | NO |
| L | DOMAIN_SEPARATOR | External | | NO |
| | | | | |
| **SafeMath** | Library | | | |
| L | tryAdd | Internal | | |
| L | trySub | Internal | | |
| L | tryMul | Internal | | |
| L | tryDiv | Internal | | |
| L | tryMod | Internal | | |
| L | add | Internal | | |
| L | sub | Internal | | |
| L | mul | Internal | | |
| L | div | Internal | | |
| L | mod | Internal | | |
| L | sub | Internal | | |
| L | div | Internal | | |
| L | mod | Internal | | |
| | | | | |
| **Context** | Implementation | | | |
| L | _msgSender | Internal | | |
| L | _msgData | Internal | | |
| | | | | |
| **Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | | NO |



```

| L | owner | Public ! | | NO! |
| L | _checkOwner | Internal ! | | |
| L | renounceOwnership | Public ! | | onlyOwner |
| L | transferOwnership | Public ! | | onlyOwner |
| L | _transferOwnership | Internal ! | | |
| | | |
| **IERC20** | Interface | | |
| L | totalSupply | External ! | | NO! |
| L | balanceOf | External ! | | NO! |
| L | transfer | External ! | | NO! |
| L | allowance | External ! | | NO! |
| L | approve | External ! | | NO! |
| L | transferFrom | External ! | | NO! |
| | | |
| **SafeERC20** | Library | | |
| L | safeTransfer | Internal ! | | |
| L | safeTransferFrom | Internal ! | | |
| L | safeApprove | Internal ! | | |
| L | safeIncreaseAllowance | Internal ! | | |
| L | safeDecreaseAllowance | Internal ! | | |
| L | safePermit | Internal ! | | |
| L | _callOptionalReturn | Private ! | | |
| | | |
| **IERC20Metadata** | Interface | IERC20 | | |
| L | name | External ! | | NO! |
| L | symbol | External ! | | NO! |
| L | decimals | External ! | | NO! |
| | | |
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | |
| L | <Constructor> | Public ! | | NO! |
| L | name | Public ! | | NO! |
| L | symbol | Public ! | | NO! |
| L | decimals | Public ! | | NO! |
| L | totalSupply | Public ! | | NO! |
| L | balanceOf | Public ! | | NO! |
| L | transfer | Public ! | | NO! |
| L | allowance | Public ! | | NO! |
| L | approve | Public ! | | NO! |
| L | transferFrom | Public ! | | NO! |
| L | increaseAllowance | Public ! | | NO! |
| L | decreaseAllowance | Public ! | | NO! |
| L | _transfer | Internal ! | | |
| L | _mint | Internal ! | | |
| L | _burn | Internal ! | | |
| L | _approve | Internal ! | | |
| L | _spendAllowance | Internal ! | | |
| L | _beforeTokenTransfer | Internal ! | | |
| L | _afterTokenTransfer | Internal ! | | |
| | | |
| **RajuPresale** | Implementation | Ownable | | |
| L | <Constructor> | Public ! | | NO! |
| L | setWallet | External ! | | onlyOwner |
| L | setReferralRate | External ! | | onlyOwner |
| L | setPresaleTokenAddress | External ! | | onlyOwner |
| L | startPresale | External ! | | onlyOwner |
| L | setList | External ! | | onlyOwner |
| L | closePrsale | External ! | | onlyOwner |
| L | setWhitelist | Public ! | | onlyOwner |

```

| | | | | | |
|---|----------------------|----------|---|---|-----------|
| L | setRate1 | External | ! |  | onlyOwner |
| L | setRate2 | External | ! |  | onlyOwner |
| L | buy | Public | ! |  | NO! |
| L | sell | Public | ! |  | NO! |
| L | getPercentReleased | Public | ! | | NO! |
| L | getClaimableAmount | Public | ! | | NO! |
| L | getDepositedAmount | Public | ! | | NO! |
| L | update | Public | ! |  | onlyToken |
| L | getRebaseRate | Public | ! | | NO! |
| L | claim | Public | ! |  | NO! |
| L | retreiveUSDC | Public | ! |  | NO! |
| L | retreiveExcesspToken | Public | ! |  | NO! |
| L | setPhaseSetting | External | ! |  | onlyOwner |
| L | setDailyRate | External | ! |  | onlyOwner |
| L | setMinBuy | External | ! |  | onlyOwner |
| L | setMaxBuyUsdc | External | ! |  | onlyOwner |
| L | setMinSellToken | External | ! |  | onlyOwner |
| L | setMaxSellToken | External | ! |  | onlyOwner |

Legend

| Symbol | Meaning |
|---|---------------------------|
|  | Function can modify state |
|  | Function is payable |

Conclusion

The contracts are written systematically. Team found no critical issues. So, it is good to go for production.

Since possible test cases can be unlimited and developer level documentation (code flow diagram with function level description) not provided, for such an extensive smart contract protocol, we provide no such guarantee of future outcomes. We have used all the latest static tools and manual observations to cover maximum possible test cases to scan Everything.

Security state of the reviewed contract is “Well Secured”.

- ✓ No mint function.
- ✓ No volatile code.
- ✓ No high severity issues were found.

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against the team on the basis of what it says or doesn't say, or how team produced it, and it is important for you to conduct your own independent investigations before making any decisions. team go into more detail on this in the below disclaimer below – please make sure to read it in full.

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