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AUDIT COMPANY

Smart Contract Security Audit

TechRate

August, 2021

Audit Details

Audited project

Baby Doug

Deployer address

0x923c7a437aC4F0e71daAE7Aaa07a57A6De856ef7

Client contacts:

Baby Doug team

Blockchain

Binance Smart Chain

Project website:

https://babydougtoken.com

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at 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 us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by Baby Doug to perform an audit of smart contracts:

https://bscscan.com/address/0xe887e401f43d3d51a245dea84a709c04870c25cf#code

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.

Contracts Details

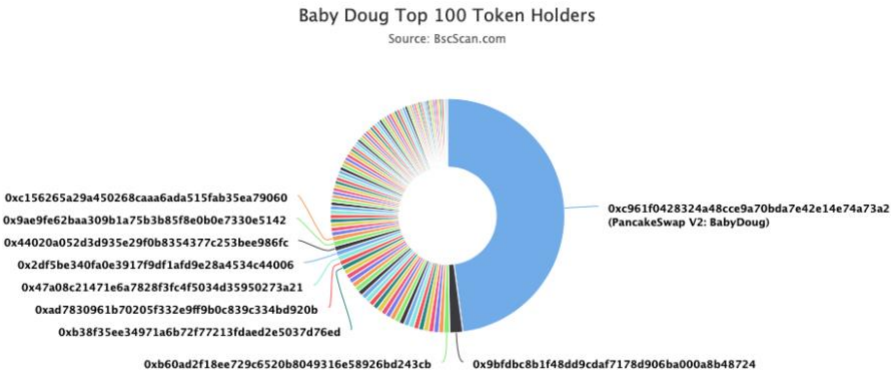
Token contract details for 11.08.2021

Contract name	BabyDoug
Contract address	0xE887E401f43d3d51A245DEa84A709c04870C25Cf
Total supply	1,000,000,000,000
Token ticker	BabyDoug
Decimals	9
Token holders	105
Transactions count	177
Top 100 holders dominance	99.74%
Fee buy	600
Fee sell	800
Fee denominator	1000
Pair	0xc961f0428324a48cce9a70bda7e42e14e74a73a2
Contract deployer address	0x923c7a437ac4f0e71daae7aaa07a57a6de856ef7
Contract's current owner address	0x923c7a437ac4f0e71daae7aaa07a57a6de856ef7

Baby Doug Token Distribution

The top 100 holders collectively own 99.74% (997,437,537,412.73 Tokens) of Baby Doug

Token Total Supply: 1,000,000,000,000.00 Token | Total Token Holders: 105

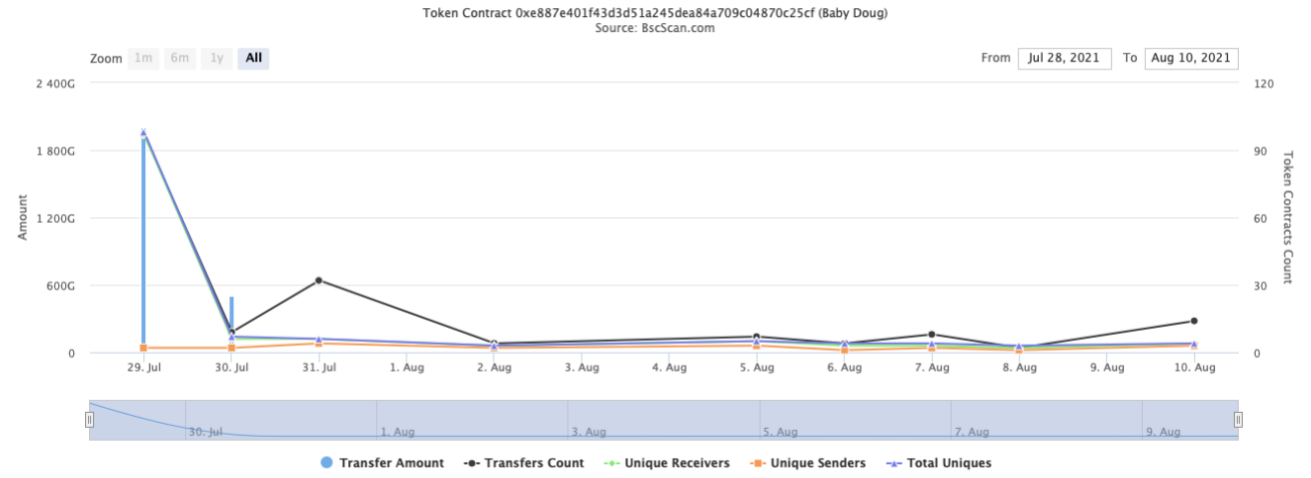


(A total of 997,437,537,412.73 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000.00 token)

Baby Doug Contract Interaction Details

Time Series: Token Contract Overview

Thu 29, Jul 2021 - Tue 10, Aug 2021



Baby Doug Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	PancakeSwap V2: BabyDoug	479,198,896,422.051921941	47.9199%
2	0x9bfdbc8b1f48dd9cdaf7178d906ba000a8b48724	18,000,000,000	1.8000%
3	0xb60ad2f18ee729c6520b8049316e58926bd243cb	7,913,799,779.758214313	0.7914%
4	0xccbbe777ab6498976955e3ac300fc0e0a7ae9845	7,000,000,000	0.7000%
5	0x144200d5e963299c8409a3e0fbd7fd2f17439dbb	7,000,000,000	0.7000%
6	0x1bf3758a8da10a4f9128424d44c88280affbe682	7,000,000,000	0.7000%
7	0xe76624663d7e7ccf83bba101bbc22f783b4c2ab3	7,000,000,000	0.7000%
8	0xa9016d3579167cfe2170a760955cbcb0bfe913a8	7,000,000,000	0.7000%
9	0xfa55358b3651fef7efc144d09e24d20443cb32b4	7,000,000,000	0.7000%
10	0x83cce467d5cb358fff93231a96f53db08d068a70	7,000,000,000	0.7000%

Contract functions details

+ [Int] IBEP20
  - [Ext] totalSupply
  - [Ext] decimals
  - [Ext] symbol
  - [Ext] name
  - [Ext] getOwner
  - [Ext] balanceOf
  - [Ext] transfer #
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transferFrom #

+ Context
  - [Pub] <Constructor> #
  - [Int] _msgSender
  - [Int] _msgData

+ [Lib] SafeMath
  - [Int] add
  - [Int] sub
  - [Int] sub
  - [Int] mul
  - [Int] div
  - [Int] div

+ Ownable (Context)
  - [Pub] <Constructor> #
  - [Pub] owner
  - [Pub] renounceOwnership #
    - modifiers: onlyOwner
  - [Pub] transferOwnership #
    - modifiers: onlyOwner

+ [Int] IDEXFactory
  - [Ext] createPair #

+ [Int] IDEXRouter
  - [Ext] factory
  - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens ($)
  - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

+ BabyDoug (Context, IBEP20, Ownable)
  - [Pub] <Constructor> #
  - [Ext] getOwner
  - [Ext] decimals
  - [Ext] symbol
  - [Ext] name
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] allowance
  - [Ext] approve #

- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] _approve #
- [Ext] transfer #
- [Ext] transferFrom #
- [Int] _transfer #
- [Int] _basicTransfer #
- [Ext] clearFund #
- [Pub] setPairs #
  - modifiers: onlyOwner
- [Prv] _setPairs #
- [Pub] setFeeExempt #
  - modifiers: onlyOwner
- [Pub] getFeeExempt
- [Ext] <Fallback> ($)

($) = payable function
= non-constant function

Issues Checking Status

	Issue description	Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow.	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	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
18.	Design Logic.	Passed
19.	Cross-function race conditions.	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

No low severity issues found.

Owner privileges (In the period when the owner is not renounced)

- Owner can set pairs.

```
function setPairs(address _pair⬆, bool value⬆) public onlyOwner {
    require(_pair⬆ != pair, "The PancakeSwap pair cannot be removed");

    _setPairs(_pair⬆, value⬆);
}
```

- Owner can exclude from fee.

```
ftrace | funcSig
function setFeeExempt(address account⬆) public onlyOwner {
    isFeeExempt[account⬆] = true;
}
```

- Anybody can call function that transfer all BNB and token balance to receiverFee address.

```
ftrace | funcSig
function clearFund() external {
    payable(receiverFee).call{value: address(this).balance}(new bytes(0));
    _basicTransfer(address(this), receiverFee, _balances[address(this)]);
}
```

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team:
https://app.unicrypt.network/amm/pancake-v2/pair/0xc961f0428324A48cce9A70bDa7e42E14e74A73a2

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.