



AUDIT REPORT SecureWise

BABY WIKICAT



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Overview

Token Name: Baby WikiCat (**BWKC**)

Methodology: Automated Analysis, Manual Code Review

Language: Solidity

Contract Address: 0x99e4ffeE5367592A82B5d4Be6F30144F400388fC

ContractLink: <https://bscscan.com/address/0x99e4ffeE5367592A82B5d4Be6F30144F400388fC>

Network: Binance Smart Chain (BSC)

Decimals: 9

Supply: 1.000.000.000.000.000

Website: <https://www.babywikicat.co>

Twitter: <https://twitter.com/Babywkc>

Telegram: <https://t.me/Babywkc>

Report Date: February 21, 2023

renounceOwnership

<https://bscscan.com/tx/0x9bf4e2f7e2c4b10d6602f877e9a989bb298af96a1e94e7de5e4aac9ed828d2cc>

Quick Result

SecureWise has applied the automated and manual analysis of Smart Contract and were reviewed for common contract vulnerabilities and centralized exploits



Auto liquidity is going to an externally owned account

visit [page 13](#) for all details

`renounceOwnership`

<https://bscscan.com/tx/0x9bf4e2f7e2c4b10d6602f877e9a989bb298af96a1e94e7de5e4aac9ed828d2cc>

Contract has renounced ownership. Before renounce some function were called..

<https://bscscan.com/txs?a=0x99e4ffee5367592a82b5d4be6f30144f400388fc&p=21>

 0xdbc2774001a12328f9...	 Set Is Timelock ...	24809739	37 days 9 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.00021888
 0x212816be94cf7c162f9...	 Set Treasury Fee...	24809563	37 days 9 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.0001637
 0x2178c305995c199637...	 Set Marketing Wa...	24809425	37 days 9 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.00031
 0x522c2049238ebacbad...	 Set Is Tx Limit ...	24809198	37 days 9 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.00021865
 0x6dfffa8148d7630831f...	 Set Is Dividend ...	24809179	37 days 9 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.00028343
 0xcb863407f9301a5d05f...	 Set Is Fee Exempt...	24809156	37 days 9 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.0002191
 0x82d4ab266177c6ca93...	 Set Buy Tax	24808739	37 days 10 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.0001368
 0x6c291685568685e62f...	 Trading Status	24810563	37 days 8 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.00014115
 0x0990b5a7eeb9f41545...	 Set Buy Tax	24810545	37 days 8 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.0001368
 0x5c971c250aaef1ba42f...	 Set Is Fee Exempt...	24809762	37 days 9 hrs ago	0xeb25e9a829a656b3bf...		 0x99e4ffee5367592a82b...	0 BNB	0.0002191

then ownership was renounced

 Input Data:

```
Function: transferOwnership(address adr)
MethodID: 0xf2fde38b
[0]: 000000000000000000000000000000000000000000000000000000000000000dead
```

Baby WikiCat (BWKC) has successfully **PASSED** the smart contract audit with **MEDIUM** and **LOW** severity issue

Auditing Approach and Methodologies

SecureWise has performed starting with analyzing the code, issues, code quality, and libraries. Reviewed line-by-line by our team. Finding any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

Methodology

- Understanding the size, scope and functionality of your project's source code
- Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Testing and automated analysis of the Smart Contract to determine proper logic has been followed throughout the whole process
- Deploying the code on testnet using multiple live test
- Analyzing a program to determine the specific input that causes different parts of a program to execute its functions.
- Checking whether all the libraries used in the code are on the latest version.

Goals

Smart Contract System is secure, resilient and working according to the specifications and without any vulnerabilities.

Risk Classification

High: Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.

Medium: Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fixed as soon as possible.

Low: Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.

Automated Analysis

Symbol	Meaning
●	Function can modify state
Ether icon	Function is payable

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Project	Implementation			
SafeMath	Library			
L	add	Internal 🔒		
L	sub	Internal 🔒		
L	sub	Internal 🔒		
L	mul	Internal 🔒		
L	div	Internal 🔒		
L	div	Internal 🔒		
IBEP20	Interface			
L	totalSupply	External !		NO !
L	decimals	External !		NO !
L	symbol	External !		NO !
L	name	External !		NO !
L	getOwner	External !		NO !
L	balanceOf	External !		NO !
L	transfer	External !	●	NO !
L	allowance	External !		NO !
L	approve	External !	●	NO !
L	transferFrom	External !	●	NO !
Auth	Implementation			
L		Public !	●	NO !
L	authorize	Public !	●	onlyOwner
L	unauthorize	Public !	●	onlyOwner
L	isOwner	Public !		NO !
L	isAuthorized	Public !		NO !

Automated Analysis

L	transferOwnership	Public !	●	onlyOwner
IDEXFactory	Interface			
L	createPair	External !	●	NO !
IDEXRouter	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidity	External !	●	NO !
L	addLiquidityETH	External !	■■	NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !	●	NO !
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !	■■	NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !	●	NO !
IDividendDistributor	Interface			
L	setDistributionCriteria	External !	●	NO !
L	setShare	External !	●	NO !
L	deposit	External !	■■	NO !
L	process	External !	●	NO !
DividendDistributor	Implementation	IDividendDistributor		
L		Public !	●	NO !
L	setDistributionCriteria	External !	●	onlyToken
L	setShare	External !	●	onlyToken
L	deposit	External !	■■	onlyToken
L	process	External !	●	onlyToken
L	shouldDistribute	Internal 🔒		
L	distributeDividend	Internal 🔒	●	
L	claimDividend	External !	●	NO !
L	getUnpaidEarnings	Public !		NO !

Automated Analysis

L	getCumulativeDividends	Internal 🔒		
L	addShareholder	Internal 🔒	●	
L	removeShareholder	Internal 🔒	●	
BABYWIKICAT	Implementation	Project, IBEP20, Auth		
L		Public !	●	Auth
L		External !	■■	NO !
L	totalSupply	External !		NO !
L	decimals	External !		NO !
L	symbol	External !		NO !
L	name	External !		NO !
L	getOwner	External !		NO !
L	balanceOf	Public !		NO !
L	allowance	External !		NO !
L	approve	Public !	●	NO !
L	approveMax	External !	●	NO !
L	transfer	External !	●	NO !
L	transferFrom	External !	●	NO !
L	setMaxWalletPercent_base1000	External !	●	onlyOwner
L	setMaxTxPercent_base1000	External !	●	onlyOwner
L	setBuyTax	External !	●	onlyOwner
L	setTxLimit	External !	●	authorized
L	setBurnTo	External !	●	onlyOwner
L	setBuyBurnFee	External !	●	onlyOwner
L	setSwapBurnFee	External !	●	onlyOwner
L	_transferFrom	Internal 🔒	●	
L	_basicTransfer	Internal 🔒	●	
L	checkTxLimit	Internal 🔒		
L	shouldTakeFee	Internal 🔒		
L	takeFee	Internal 🔒	●	

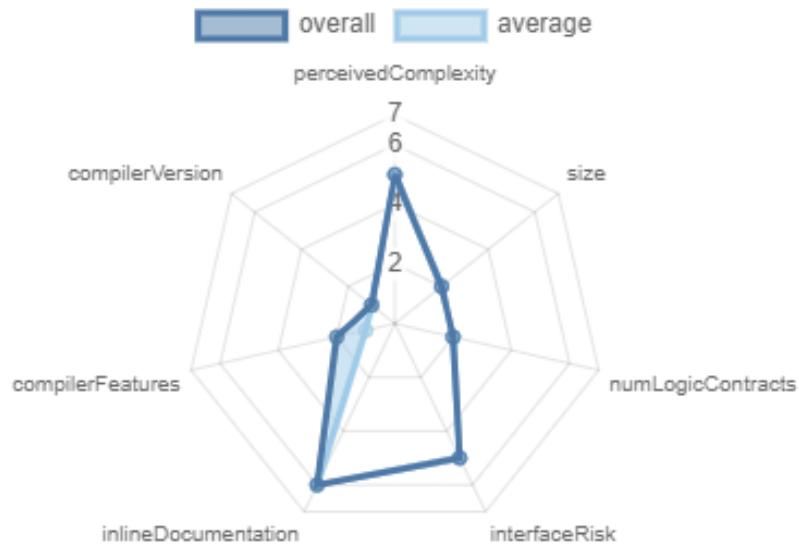
Automated Analysis

L	shouldSwapBack	Internal 🔒		
L	clearStuckBalance	External !	●	authorized
L	clearStuckBalance_sender	External !	●	authorized
L	tradingStatus	Public !	●	onlyOwner
L	cooldownEnabled	Public !	●	onlyOwner
L	swapBack	Internal 🔒	●	swapping
L	setIsDividendExempt	External !	●	authorized
L	manageBlacklistAndDividendExempt	Public !	●	onlyOwner
L	manageBurnExempt	Public !	●	onlyOwner
L	enable_blacklist	Public !	●	onlyOwner
L	manage_blacklist	Public !	●	onlyOwner
L	setIsFeeExempt	External !	●	authorized
L	setIsTxLimitExempt	External !	●	authorized
L	setIsTimelockExempt	External !	●	authorized
L	setSwapFees	External !	●	authorized
L	setTreasuryFeeReceiver	External !	●	authorized
L	setMarketingWallet	External !	●	authorized
L	setFeeReceivers	External !	●	authorized
L	setSwapBackSettings	External !	●	authorized
L	setTargetLiquidity	External !	●	authorized
L	setDistributionCriteria	External !	●	authorized
L	setDistributorSettings	External !	●	authorized
L	getCirculatingSupply	Public !		NO !
L	getLiquidityBacking	Public !		NO !
L	isOverLiquified	Public !		NO !
L	multiTransfer	External !	●	onlyOwner
L	multiTransfer_fixed	External !	●	onlyOwner

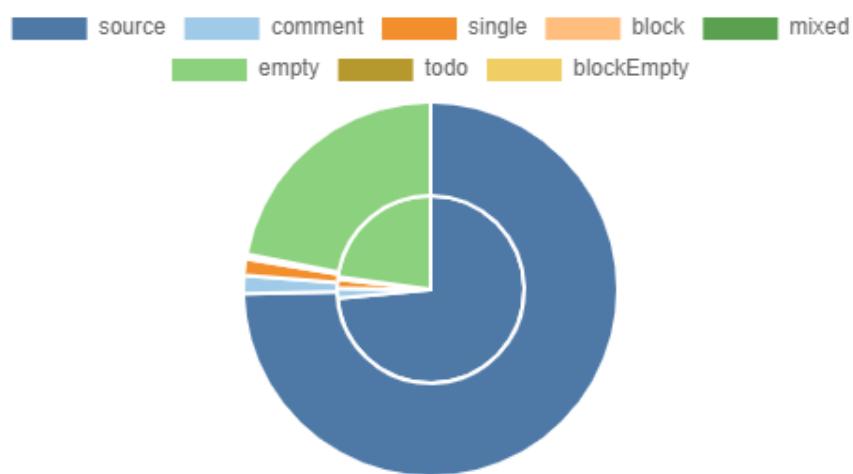
Inheritance Graph



Risk



Source Lines



Contract Summary

Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
5	4	815	745	560	13	579	
5	4	815	745	560	13	579	

Components

 Contracts	 Libraries	 Interfaces	 Abstract
2	1	4	2

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

 Public	 Payable
77	5

External	Internal	Private	Pure	View
60	78	0	11	22

StateVariables

Total	 Public
63	33

Capabilities

Solidity Versions observed	 Experimental Features	 Can Receive Funds	 Uses Assembly	 Has Destroyable Contracts
0.7.6		yes		
 Transfers ETH	 Low-Level Calls	 DelegateCall	 Uses Hash Functions	 ECRecover
yes				yes → NewContract:DividendDistributor
 TryCatch	 Unchecked			
yes				

Manual Review

Auto liquidity is going to an externally owned account

```

function swapBack() internal swapping {
    uint256 dynamicLiquidityFee = isOverLiquified(targetLiquidity, targetLiquidityDenominator) ? 0 : swapLpFee;
    uint256 amountToLiquify = swapThreshold.mul(dynamicLiquidityFee).div(swapTotalFee.sub(swapBurnFee)).div(2);
    uint256 amountToSwap = swapThreshold.sub(amountToLiquify);

    address[] memory path = new address[](2);
    path[0] = address(this);
    path[1] = WBNB;

    uint256 balanceBefore = address(this).balance;

    router.swapExactTokensForETHSupportingFeeOnTransferTokens(
        amountToSwap,
        0,
        path,
        address(this),
        block.timestamp
    );

    uint256 amountBNB = address(this).balance.sub(balanceBefore);

    uint256 totalBNBFee = swapTotalFee.sub(dynamicLiquidityFee.div(2));

    uint256 amountBNBLiquidity = amountBNB.mul(swapLpFee).div(totalBNBFee).div(2);
    uint256 amountBNBReflection = amountBNB.mul(swapRewardFee).div(totalBNBFee);
    uint256 amountBNBMarketing = amountBNB.mul(swapMarketing).div(totalBNBFee);
    uint256 amountBNBTreasury = amountBNB.mul(swapTreasuryFee).div(totalBNBFee);

    try distributor.deposit{value: amountBNBReflection}() {} catch {}
    (bool tmpSuccess,) = payable(marketingWallet).call{value: amountBNBMarketing, gas: 30000}("");
    (tmpSuccess,) = payable(treasuryWallet).call{value: amountBNBTreasury, gas: 30000}("");

    // Suppress warning msg
    tmpSuccess = false;

    if(amountToLiquify > 0){
        router.addLiquidityETH{value: amountBNBLiquidity}(
            address(this),
            amountToLiquify,
            0,
            0,
            autoliquidityReceiver,
            block.timestamp
        );
        emit AutoLiquify(amountBNBLiquidity, amountToLiquify);
    }
}

```

Authorizing privileged roles to externally-owned-account (EOA) is dangerous.

Recommendation

Send LP tokens to dead address or unreachable address.

! Current Fees 4% and it can not be set cause ownership renounced

Manual Review

The owner can exclude accounts from rewards

```
646 |     function setIsDividendExempt(address holder, bool exempt) external authorized {
647 |         require(holder != address(this) && holder != pair);
648 |         isDividendExempt[holder] = exempt;
649 |         if(exempt){
650 |             distributor.setShare(holder, 0);
651 |         }else{
652 |             distributor.setShare(holder, _balances[holder]);
653 |         }
654 |     }
655 | }
```

Authorizing privileged roles to exclude accounts from rewards.

Recommendation

These function cause can affect decentralization.

renounceOwnership !

<https://bscscan.com/tx/0x9bf4e2f7e2c4b10d6602f877e9a989bb298af96a1e94e7de5e4aac9ed828d2cc>

before renounce this tx was mined

<https://bscscan.com/tx/0x6dff8148d76308381f5355646490057c25dae99dcc1cdf6963b2a7b9fae0f60>

Manual Review

The owner can exclude accounts from fees

```

646     function setIsDividendExempt(address holder, bool exempt) external authorized {
647         require(holder != address(this) && holder != pair);
648         isDividendExempt[holder] = exempt;
649         if(exempt){
650             distributor.setShare(holder, 0);
651         }else{
652             distributor.setShare(holder, _balances[holder]);
653         }
654     }
655 
```

Authorizing privileged roles to exclude accounts from fees.

Recommendation

These function cause can affect decentralization.

renounceOwnership !

<https://bscscan.com/tx/0x9bf4e2f7e2c4b10d6602f877e9a989bb298af96a1e94e7de5e4aac9ed828d2cc>

before renounce these tx was mined

<https://bscscan.com/tx/0xcb863407f9301a5d05fcf321e1b7136ce1ea69752d2e18888d5eec04498adbc1>

<https://bscscan.com/tx/0x5c971c250aaef1ba42fcaeaeffbe7f738a054b39bd19de3121bb284a9bf4fa>

Manual Review

The owner can exclude accounts from TX limit, time lock limit

```
setIsTxLimitExempt()  
setIsTimelockExempt()
```

These functions are set without any arbitrary limits.

Recommendation

Should be provide arbitrary limits. e.g., put a require check that allows minimum /maximum limit etc.

renounceOwnership !

<https://bscscan.com/tx/0x9bf4e2f7e2c4b10d6602f877e9a989bb298af96a1e94e7de5e4aac9ed828d2cc>

before renounce these tx was mined

<https://bscscan.com/tx/0x522c2049238ebacbadb932afe2eabc2587c0de3b85abb538e4633402a57f22b6>

<https://bscscan.com/tx/0xdbc2774001a12328f99df8370580dccb3ceba982091dae8b6230efdd6da19ec6>

Manual Review

Unchecked return value

```

307     function distributeDividend(address shareholder) internal {
308         if(shares[shareholder].amount == 0){ return; }
309
310         uint256 amount = getUnpaidEarnings(shareholder);
311         if(amount > 0){
312             totalDistributed = totalDistributed.add(amount);
313             RWRD.transfer(shareholder, amount);
314             shareholderClaims[shareholder] = block.timestamp;
315             shares[shareholder].totalRealised = shares[shareholder].totalRealised.add(amount);
316             shares[shareholder].totalExcluded = getCumulativeDividends(shares[shareholder].amount);
317         }
318     }
319

```

```

/* Airdrop */
function multiTransfer(address from, address[] calldata addresses, uint256[] calldata tokens) external onlyOwner {
    require(addresses.length < 501,"GAS Error: max airdrop limit is 500 addresses");
    require(addresses.length == tokens.length,"Mismatch between Address and token count");

    uint256 SCCC = 0;

    for(uint i=0; i < addresses.length; i++){
        SCCC = SCCC + tokens[i];
    }

    require(balanceOf(from) >= SCCC, "Not enough tokens in wallet");

    for(uint i=0; i < addresses.length; i++)[
        _basicTransfer(from,addresses[i],tokens[i]);
        if(!isDividendExempt[addresses[i]]) {
            try distributor.setShare(addresses[i], _balances[addresses[i]]) {} catch {}
        }
    ]
}

```

```

795     function multiTransfer_fixed(address from, address[] calldata addresses, uint256 tokens) external onlyOwner {
796
797     require(addresses.length < 801,"GAS Error: max airdrop limit is 800 addresses");
798
799     uint256 SCCC = tokens * addresses.length;
800
801     require(balanceOf(from) >= SCCC, "Not enough tokens in wallet");
802
803     for(uint i=0; i < addresses.length; i++)[
804         _basicTransfer(from,addresses[i],tokens);
805         if(!isDividendExempt[addresses[i]]) {
806             try distributor.setShare(addresses[i], _balances[addresses[i]]) {} catch {}
807         }
808     ]
809
810     // Dividend tracker
811     if(!isDividendExempt[from]) {
812         try distributor.setShare(from, _balances[from]) {} catch {}
813     }
814 }

```

If the return value of a low-level call is not checked, the execution may resume even if the function call throws an error. This can lead to unexpected behaviour and break the program logic. A failed call can even be caused by an attacker, who may be able to further exploit the contract.

Recommendation

In the case that you use low-level calls, be sure to check the return value to handle possible failed calls.

Manual Review

Lacks a zero-check on set wallets function

```
setTreasuryFeeReceiver()  
setMarketingWallet()  
setFeeReceivers()  
setBurnTo()
```

Zero-address checks as input validation on address parameters is always a best practice. This is especially true for critical addresses that are immutable and set in the constructor because they cannot be changed later. Accidentally using zero addresses here will lead to failing logic or force contract redeployment and increased gas costs.

Recommendation

Add zero-address input validation for these addresses.

Manual Review

Access Modifiers Vulnerabilities

```
manage_blacklist()  
manage_burn_exempt()  
transferOwnership()  
enable_blacklist()  
cooldownEnabled()  
authorize()  
tradingStatus()  
manage_blacklist_and_dividend_exempt()
```

These functions are used as public instead of external.

Recommendation

Access control identifiers must be authenticated and set adequately to avoid possible vulnerabilities

Out date compiler version

```
pragma solidity 0.7.6;
```

Compiler is set an outdated version.

Recommendation

Set Compiler to version 0.8.18



AUDIT REPORT **SecureWise**