



Cyberscope

# Audit Report

## **Baby Stepn**

May 2022

Network    BSC

Address    0x883fc560d3be5c2a4f1dd9006d70ee5a17aae047

Audited by    © cyberscope

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## Source File

<b>Contract Name</b>	BABYSTEPN
<b>Compiler Version</b>	v0.8.7+commit.e28d00a7
<b>Optimization</b>	200 runs
<b>Licence</b>	Unlicense
<b>Explorer</b>	<a href="https://bscscan.com/token/0x883fc560d3be5c2a4f1dd9006d70ee5a17aae047">https://bscscan.com/token/0x883fc560d3be5c2a4f1dd9006d70ee5a17aae047</a>
<b>Symbol</b>	\$BABYSTEPN
<b>Decimals</b>	18
<b>Total Supply</b>	1,000,000,000
<b>Domain</b>	babystepn.io

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	d40f06cfc249e39c596221ae837f76b080e9c116162f8a be4ae21a02fd7df9f5

## Audit Updates

<b>Initial Audit</b>	27th April 2022
<b>Corrected</b>	5th May 2022

# Contract Analysis

● Critical   ● Medium   ● Minor   ● Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

## BC - Blacklisted Contracts

Criticality	critical
Location	contract.sol#L486

### Description

The contract owner has the authority to massively stop contacts from transactions. The owner may take advantage of it by calling the `manage_blacklist` function.

```
require(!isBlacklisted[sender] && !isBlacklisted[recipient], "Blacklisted");
```

### Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

# Contract Diagnostics

● Critical    ● Medium    ● Minor

Severity	Code	Description
●	L04	Conformance to Solidity Naming Conventions
●	L07	Missing Events Arithmetic
●	L14	Uninitialized Variables in Local Scope

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L106,208,161,169,183,346,603,681,690,696,722,735,748,756,765,772,348,352,353,354,356,358,359,364,400

### Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow `_` at the beginning of the `mixed_case` match for private variables and unused parameters.

```
maxFee
_markerPairs
_maxWalletAmount
_maxTxAmount
_totalSupply
_decimals
_symbol
_name
WBNB
...
```

### Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

## L07 - Missing Events Arithmetic

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L208

### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
minPeriod = _minPeriod
```

### Recommendation

Emit an event for critical parameter changes.



## L14 - Uninitialized Variables in Local Scope

**Criticality**

minor

**Location**

contract.sol#L683

### Description

There are variables that are defined in the local scope and are not initialized.

```
i
```

### Recommendation

All the local scoped variables should be initialized.

# Contract Functions

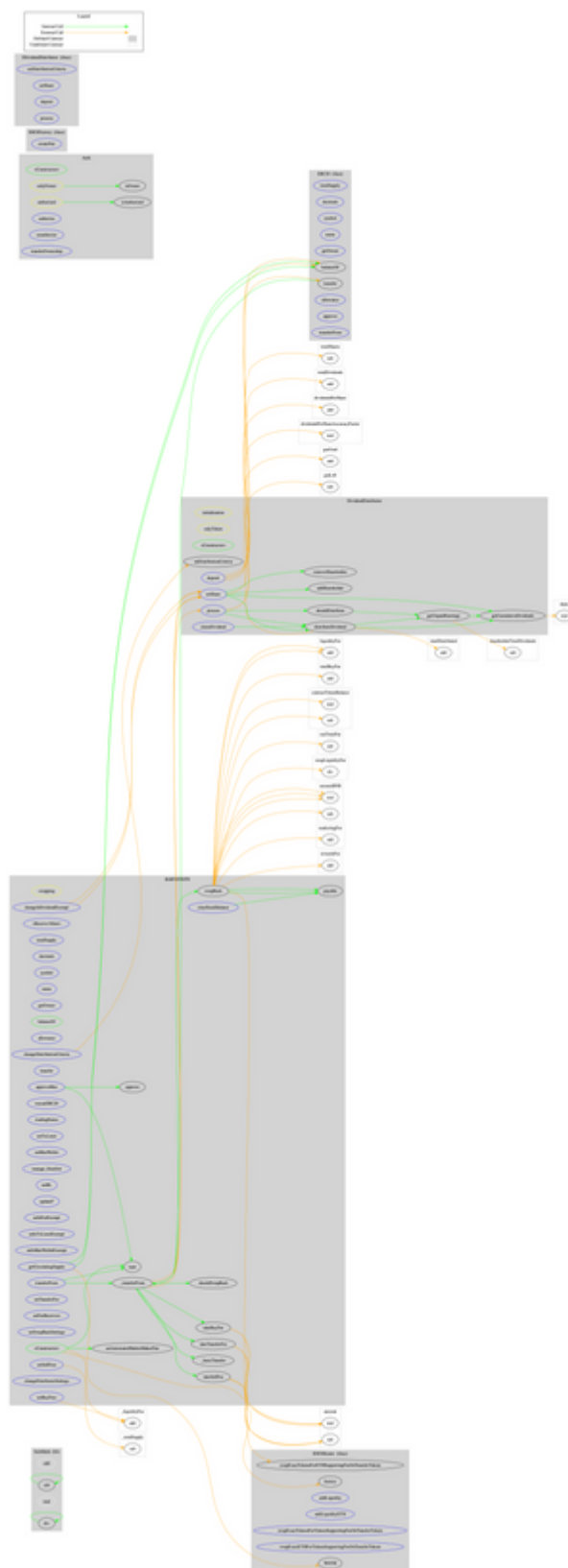
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>SafeMath</b>	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
<b>ERC20</b>	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>Auth</b>	Implementation			
	<Constructor>	Public	✓	-
	authorize	External	✓	onlyOwner
	unauthorize	External	✓	onlyOwner
	isOwner	Public		-
	isAuthorized	Public		-
	transferOwnership	External	✓	onlyOwner
<b>IDEXFactory</b>	Interface			

	createPair	External	✓	-
<b>IDEXRouter</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>IDividendDistributor</b>	Interface			
	setDistributionCriteria	External	✓	-
	setShare	External	✓	-
	deposit	External	Payable	-
	process	External	✓	-
<b>DividendDistributor</b>	Implementation	IDividendDistributor		
	<Constructor>	Public	✓	-
	setDistributionCriteria	External	✓	onlyToken
	setShare	External	✓	onlyToken
	deposit	External	Payable	onlyToken
	process	External	✓	onlyToken
	shouldDistribute	Internal		
	distributeDividend	Internal	✓	
	claimDividend	External	✓	-
	getUnpaidEarnings	Public		-
	getCumulativeDividends	Internal		
	addShareholder	Internal	✓	
	removeShareholder	Internal	✓	
<b>BABYSTEPN</b>	Implementation	ERC20,		

		Auth		
	<Constructor>	Public	✓	Auth
	<Receive Ether>	External	Payable	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	Public	✓	-
	approveMax	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	_transferFrom	Internal	✓	
	_basicTransfer	Internal	✓	
	takeBuyFee	Internal	✓	
	takeSellFee	Internal	✓	
	takeTransferFee	Internal	✓	
	shouldSwapBack	Internal		
	clearStuckBalance	External	✓	authorized
	rescueERC20	External	✓	onlyOwner
	tradingStatus	External	✓	onlyOwner
	swapBack	Internal	✓	swapping
	setTxLimit	External	✓	authorized
	setMaxWallet	External	✓	authorized
	manage_blacklist	External	✓	onlyOwner
	setBL	External	✓	onlyOwner
	updateF	External	✓	onlyOwner
	setIsFeeExempt	External	✓	authorized
	setIsTxLimitExempt	External	✓	authorized
	setIsMaxWalletExempt	External	✓	authorized
	setBuyFees	External	✓	authorized
	setSellFees	External	✓	authorized
	setTransferFee	External	✓	authorized

	setFeeReceivers	External	✓	authorized
	setSwapBackSettings	External	✓	authorized
	setAutomatedMarketMakerPair	Public	✓	onlyOwner
	changeIsDividendExempt	External	✓	authorized
	changeDistributionCriteria	External	✓	authorized
	changeDistributorSettings	External	✓	authorized
	getCirculatingSupply	External		-

# Contract Flow



## Domain Info

<b>Domain Name</b>	babystepn.io
<b>Registry Domain ID</b>	5b32c2b67b014e5bb71a72978c1ac962-DONUTS
<b>Creation Date</b>	2022-04-22T14:48:07Z
<b>Updated Date</b>	2022-04-22T14:48:07Z
<b>Registry Expiry Date</b>	2023-04-22T14:48:07Z
<b>Registrar WHOIS Server</b>	<a href="https://www.ascio.com/products/availability-check/whois">https://www.ascio.com/products/availability-check/whois</a>
<b>Registrar URL</b>	<a href="http://www.ascio.com">http://www.ascio.com</a>
<b>Registrar</b>	Ascio Technologies, Inc. Danmark - Filial af Ascio technologies, Inc. USA
<b>Registrar IANA ID</b>	106

The domain has been created 5 days before the creation of the audit. It will expire in 12 months.

There is no public billing information, the creator is protected by the privacy settings.

## Summary

The Smart Contract analysis reported one critical severity issue. The contract owner has the authority to massively blacklist addresses. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats. There is also a limit of max 25% fees.



# Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

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The Cyberscope team disclaims any liability for the resulting losses.

# About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provides all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>