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Security Audit

bsc4future Token

March 17, 2022

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Audit Summary

This report has been prepared for bsc4future Token on the Binance Chain network. KISHIELD provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.

- Testing the smart contracts against both common and uncommon attack vectors.

- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.

- Assessing the codebase to ensure compliance with current best practices and industry standards.

- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.

- Thorough line-by-line manual review of the entire codebase by industry experts.

Project Overview

Token Summary

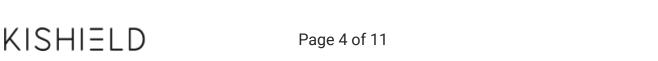| Parameter	Result
Address	0x9775bC21aFE837e1CF1bf2c5bcAfBC37B4A47331
Name	bsc4future
Token Tracker	bsc4future (BSC4F)
Decimals	18
Supply	1,000,000,000,000
Platform	Binance Chain
compiler	v0.8.4+commit.c7e474f2
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/address/0x9775bC21aFE837e1CF1bf2c5bcAfBC37B4A47331#code
Url	https://bsc4future.io/

Main Contract Assessed

Name	Contract	Live
bsc4future	0x9775bC21aFE837e1CF1bf2c5bcAfBC37B4A47331	Yes

Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	✅ Low / No Risk
Code With No Effects	Complete	Complete	✅ Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	✅ Low / No Risk
Hash Collisions With Multiple Variable Length Arguments	Complete	Complete	✅ Low / No Risk
Unexpected Ether balance	Complete	Complete	✅ Low / No Risk
Presence of unused variables	Complete	Complete	✅ Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	✅ Low / No Risk
Typographical Error	Complete	Complete	✅ Low / No Risk
DoS With Block Gas Limit	Complete	Complete	✅ Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	✅ Low / No Risk
Insufficient Gas Griefing	Complete	Complete	✅ Low / No Risk
Incorrect Inheritance Order	Complete	Complete	✅ Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	✅ Low / No Risk
Requirement Violation	Complete	Complete	✅ Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	✅ Low / No Risk
Weak Sources of Randomness from Chain Attributes	Complete	Complete	✅ Low / No Risk

Vulnerability	Automatic Scan	Manual Scan	Result
Authorization through tx.origin	Complete	Complete	✅ Low / No Risk
Delegatecall to Untrusted Callee	Complete	Complete	✅ Low / No Risk
Use of Deprecated Solidity Functions	Complete	Complete	✅ Low / No Risk
Assert Violation	Complete	Complete	✅ Low / No Risk
Reentrancy	Complete	Complete	✅ Low / No Risk
Unprotected SELFDESTRUCT Instruction	Complete	Complete	✅ Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	✅ Low / No Risk
Unchecked Call Return Value	Complete	Complete	✅ Low / No Risk
Outdated Compiler Version	Complete	Complete	✅ Low / No Risk
Integer Overflow and Underflow	Complete	Complete	✅ Low / No Risk
Function Default Visibility	Complete	Complete	✅ Low / No Risk

Contract Ownership

The contract ownership of bsc4future is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0x424B1B16a112D3C0a59cF9CFBc83Ae46249A323f which can be viewed from:
HERE

The owner wallet has the power to call the functions displayed on the priviliged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

Priviliged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
__Context_init	none	internal
__Context_init_unchained	none	internal
__ERC20_init	none	internal
__ERC20_init_unchained	none	internal
__Ownable_init	none	internal
__Ownable_init_unchained	none	internal
renounceOwnership	none	public
transferOwnership	address newOwner	public
__DividendPayingToken_init	none	internal
distributeCAKEDividends	uint256 amount	public
initialize	none	external
excludeFromDividends	address account	external
updateClaimWait	uint256 newClaimWait	external
updateMinimumTokenBalanceForDividends	uint256 amount	external

Function Name	Parameters	Visibility
setBalance	address account, uint256 newBalance	external
processAccount	address account, bool automatic	public
setEnableAntiBot	bool _enable	external
setSwapTokensAtAmount	uint256 amount	external
updateDividendTracker	address newAddress	public
updateUniswapV2Router	address newAddress	public
excludeFromFees	address account, bool excluded	public
excludeMultipleAccountsFromFees	calldata accounts, bool excluded	public
setMarketingWallet	address wallet	external
setTokenRewardsFee	uint256 value	external
setLiquiditFee	uint256 value	external
setMarketingFee	uint256 value	external
setAutomatedMarketMakerPair	address pair, bool value	public
updateGasForProcessing	uint256 newValue	public
updateClaimWait	uint256 claimWait	external
updateMinimumTokenBalanceForDividends	uint256 amount	external
excludeFromDividends	address account	external

Important Notes To The Users:

- Project owners have promised to make a video Doxx

- The contract has integrated AntiBot Protection

- The owner cannot mint tokens after initial contract deploy.

- The owner cannot stop Trading.

- There total fees cannot be set over 25%

- The transfer function is implemented correctly.

- The owner can include/exclude addresses from fees and dividents.

- The owner cannot change max tx amount.

- The contract complies with the BEP-20 token standard.

- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.

Audit Passed

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Statistics

Liquidity Info

Parameter	Result
Pair Address	0xA73edd8232BB1B3A2790412A716710D0DA5Ee51d
BSC4F Reserves	0.00 BSC4F
BNB Reserves	0.00 BNB
Liquidity Value	$0 USD

Token (BSC4F) Holders Info

Parameter	Result
BSC4F Percentage Burnt	0.00%
BSC4F Amount Burnt	0 BSC4F
Top 10 Percentage Own	100.00%
Top 10 Amount Owned	1,000,000,000,000 BSC4F
Top 10 Aprox Value	$NaN USD

LP (BSC4F/BNB) Holders Info

Parameter	Result
BSC4F/BNB % Burnt	0.00%
BSC4F/BNB Amount Burnt	0 BSC4F
Top 10 Percentage Owned	0.00%
Top 10 Amount Owned	0 BSC4F
Locked Tokens Percentage	0.00%
Locked Tokens Amount	0 BSC4F

* All the data diplayed above was taken on-chain at block 16143747
* The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 16143747

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Disclaimer

KISHIELD has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocation for the Project that was audited, and users relying on this audit report should not consider this as having any merit for financial advice in any shape, form or nature. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are completely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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