



- ✓ Blockchain Security
- ✓ Smart Contract Audits
- ✓ KYC

# Audit

Security Assessment  
**JULY 29 2022**

For:



Disclaimer

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Description

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Project Engagement

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Logo

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Contract Link

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Background

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Issues Checking Status

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Security Issues

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## Disclaimer

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Version	Date	Description
1.0	July 2022	<ul style="list-style-type: none"><li>• Layout project</li><li>• Automated- /Manual-Security</li><li>• Testing</li><li>• Summary</li></ul>

**Network**

Binance Smart Chain (BEP20)

**Website**

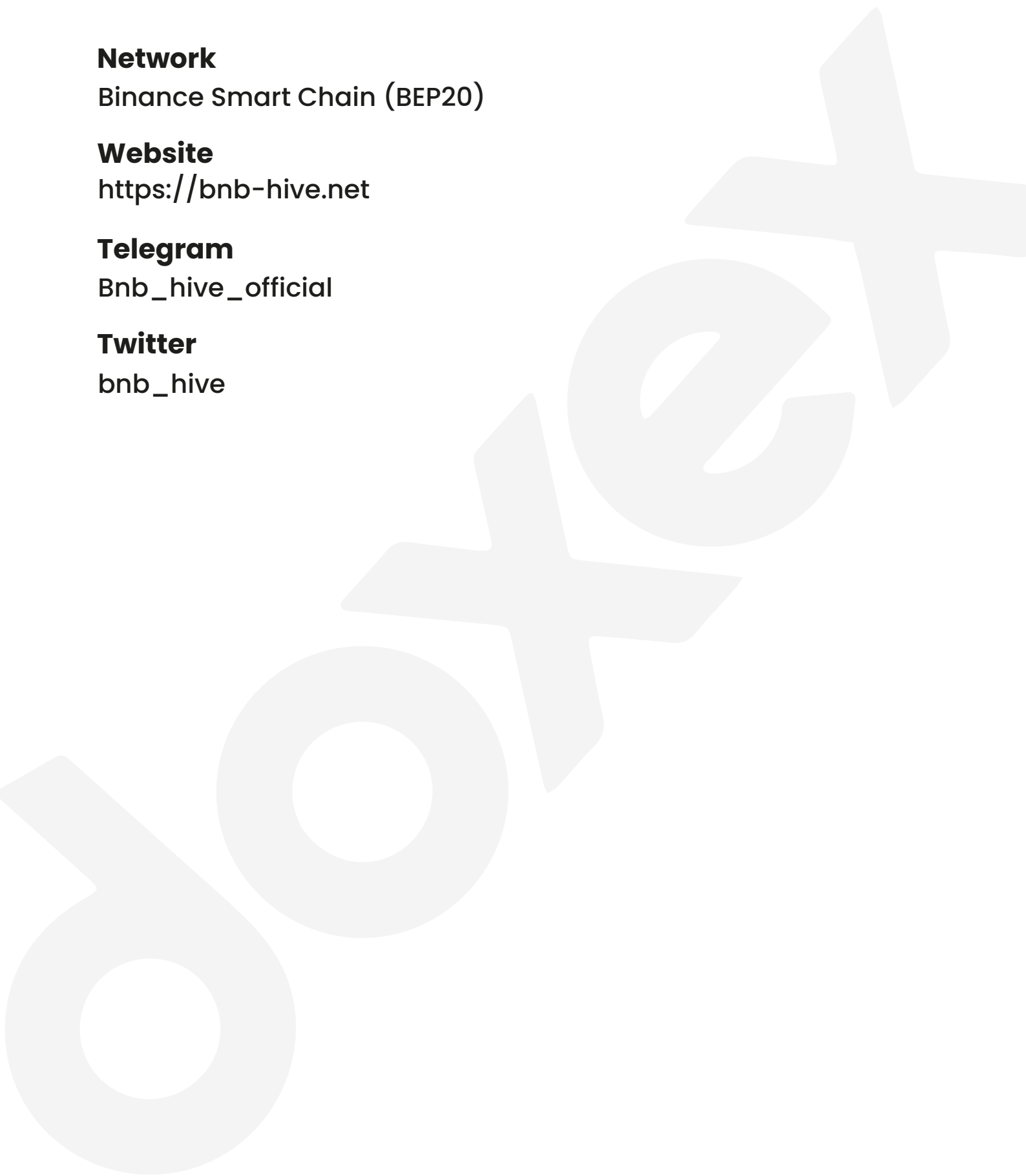
<https://bnb-hive.net>

**Telegram**

Bnb\_hive\_official

**Twitter**

bnb\_hive



## Description

Sign up BNB-Hive.Net. Hire Hive Bees for your future passive income. Welcome to BNB Hive Miner. Sign up and start earning 3% daily.

## Project Engagement

BNBHive is a simulator of the economic model of a beehive, thanks to which you can multiply your BNB coins. You can try yourself as a beekeeper, developing your hive, acquiring different breeds of bees and conducting improvements in the production process, getting real profit for it. There are two types of resources in the game:wax and honey. Wax can be bought or obtained from bees. It is used to buy bees, open a new frameworks and to develop the hive. The game has 8 species of bees, each of those brings a certain profit as raw honey, which after processing is divided into honey and wax.

## Logo



## Contract

Binance Smart Chain: 0xB9e31830A900ad824cD5F9dc32E7f5cc37Fdb531

## Background

**Doxex was commissioned by BNBHive to perform an audit of smart contracts:**

- <https://bscscan.com/address/0xe37a64aa62a53a2f5feaeabca64050b4e77db198#code>
- <https://bscscan.com/address/0xB9e31830A900ad824cD5F9dc32E7f5cc37Fdb531#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.

## Issues Checking Status

Issue description	Checking status
1. Compiler errors.	<b>PASSED</b>
2. Race conditions and Reentrancy. Cross-function race Passed conditions.	<b>Low issues</b>
3. Possible delays in data delivery.	<b>PASSED</b>
4. Oracle calls.	<b>PASSED</b>
5. Front running.	<b>PASSED</b>
6. Timestamp dependence.	<b>PASSED</b>
7. Integer Overflow and Underflow.	<b>PASSED</b>
8. DoS with Revert.	<b>PASSED</b>
9. DoS with block gas limit.	<b>PASSED</b>
10. Methods execution permissions.	<b>PASSED</b>
11. Economy model of the contract.	<b>PASSED</b>
12. The impact of the exchange rate on the logic.	<b>PASSED</b>
13. Private user data leaks.	<b>PASSED</b>
14. Malicious Event log.	<b>PASSED</b>
15. Scoping and Declarations.	<b>PASSED</b>
16. Uninitialized storage pointers.	<b>PASSED</b>
17. Arithmetic accuracy.	<b>PASSED</b>
18. Design Logic.	<b>PASSED</b>
19. Cross-function race conditions	<b>PASSED</b>
20. Safe Open Zeppelin contracts implementation and Passed usage.	<b>PASSED</b>
21. Fallback function security.	<b>PASSED</b>

## Audit Results

# AUDIT PASSED

### ✓ Security Issues

No high severity issues found.

### ✓ Medium Severity Issues

No medium severity issues found.

### ⊘ Low Severity Issues

There are three low severity issues.

1. Reentrancy issue

Issue:

- Key functions of the contract are not protected from re-entry.

Recommendation:

Add reentrancy guard library or other logic to avoid re-entry.

### Notes

- expectedIncome is not compared to totalFees to be higher on missedIncome calculation.








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

- Owner can initialize the contract.
- Owner can change devAddress.
- Owner can change vaultAddress.
- Owner can withdraw vaultAddress balance to the BNBHive contract.





## Testnet deployment

Contracts Description Table

Contract	Type	Bases	Mutability	Modifiers
L	Function Name	Visibility		
<b>BumbleBeeHive</b>	Implementation	Ownable		
L	<a href="#">reinvest</a>	Public !		whenInitialized
L	<a href="#">deposit</a>	External !		whenInitialized
L	<a href="#">withdraw</a>	External !		whenInitialized
L	<a href="#">seedMarket</a>	External !		onlyOwner
L	<a href="#">setDevAddress</a>	External !		onlyOwner
L	<a href="#">setVaultAddress</a>	External !		onlyOwner
L	<a href="#">extraFund</a>	External !		onlyOwner

### Legend

Symbol	Meaning
	Function can modify state
	Function is payable



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