TOKEN GUARD

Tokenguard provides a basic critical vulnerability verification in less than 12 hours.

(*We cover 29/36 of the most important security checks from SWC Registry*).

more details: tokenguard.io




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ABOUT TOKENGUARD

Tokenguard aggregates the best techniques for ICOs / smart contracts automated verification. We are helping teams design a secure smart contract / token and monitor the source code for new vulnerabilities and prevent potential hacks and scams.

Our mission is to make blockchain safe.

Methodology:

We're using automated tools for vulnerability discovery that are based on 2 technologies - symbolic execution and fuzzing. All of them are specifically designed for Ethereum Virtual Machine (EVM), which is the smart contract execution environment. It doesn't matter whether the contract logic is focused on token creation or swapping - the tools are set to find critical vulnerabilities that may exist in each type of contract.

Our auditors verify the output of the tools and deliver information whether there is vulnerability in the code.

AUDIT REPORT

Background:

Marcin contacted us with a need to perform a smart conract security check of critical vulnerabilities for **BasketCoinToken**. BasketCoin's smart contract is a BEP20 token and is available for investors on BSC. We conducted the smart contract automated audit of their solidity source code using our Tokenguard engine. The team provided us a link for the bsc test network and flattened .sol file.

Project summary:

Project:	BasketCoin
Blockchain:	Binance Smart Chain
Language:	Solidity
Contract name	BasketCoinToken
Compiler version:	v0.8.0
Website:	www.basketcoin.io
Request date:	16/12/2021
Report date:	19/12/2021
Max supply:	21 000 000

AUDIT REPORT

OVERVIEW:

BasketCoin is a multi-cryptocurrency utility token whose fundamental elements are:

- a diversified basket of cryptocurrencies
- a deflationary function
- a buy-back and burn program
- a staking platform

BasketCoin is a meticulously created, diversified Basket of selected cryptocurrencies. BSKT's portfolio currently consists of nine cryptocurrencies, however, the cryptocurrency basket is being systematically expanded and more tokens will be added soon.

Another aspect is the deflationary system, which makes the number of tokens on the market decrease over time. This happens thanks to a 2,5% transaction fee.

BasketCoin is a deflationary token, as its amount in circulation decreases with each transfer, and the deflationary function itself is aided by a buyback and burn program. Cryptocurrencies generate profits, which are then used to buy back BSKT from the market and burn them, further accelerating deflation.

AUDIT REPORT

It is possible to deposit BasketCoin on a staking platform and participate in the redistribution of tokens.

Tokenomics:
21 000 000 at start
current supply around 19,75mln (12.2021)
deflationary token: 2,5% transfer fee (1% burn, 1% staking, 0,5% liquidity pool)

List of security checks:

SWC - 100 Function Default Visibility

SWC - 101 Integer Overflow and Underflow

SWC - 102 Outdated Compiler Version

SWC - 103 Floating Pragma

SWC - 104 Unchecked Call Return Value

SWC - 105 Unprotected Ether Withdrawal

SWC - 106 Unprotected SELFDESTRUCT Instruction

SWC - 107 Reentrancy

SWC - 108 State Variable Default Visibility

SWC - 109 Uninitialized Storage Pointer

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SWC - 110 Assert Violation

SWC - 111 Use of Deprecated Solidity Functions

SWC - 112 Delegatecall to Untrusted Callee

SWC - 113 DoS with Failed Call

SWC - 114 Transaction Order Dependence

SWC - 115 Authorization through tx.origin

SWC - 116 Block values as a proxy for time

SWC - 117 Signature Malleability

SWC - 119 Shadowing State Variables

SWC - 120 Weak Sources of Randomness from Chain Attributes

SWC - 124 Write to Arbitrary Storage Location

SWC - 125 Incorrect Inheritance Order

SWC - 127 Arbitrary Jump with Function Type Variable

SWC - 128 DoS With Block Gas Limit

SWC - 129 Typographical Error

SWC - 130 Right-To-Left-Override control character (U+202E)

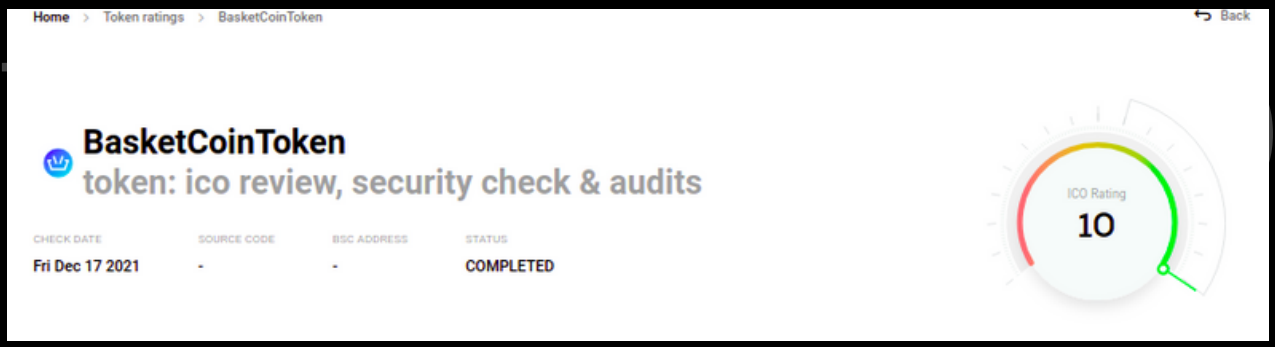
AUDIT REPORT

SWC - 131 Presence of unused variables

SWC - 132 Unexpected Ether balance

SWC - 135 Code With No Effects

Summary:



The following audit report presents the effect of the Tokenguard basic source code vulnerabilities analysis. This security check perfomed on 17/12/2021 based on a bsc test network smart contract address and .sol file provided by BSKT company.

The smart contract was analyzed for basic critical smart contract vulnerabilities, exploits and manipulation hacks according to swcregistry.io.

The BasketCoinToken's basic critical vulnerability audit didn't find any vulnerabilities there.

BasketCoin has passed the audit and is

Verified with TokenGuard

online version: here

more details: tokenguard.io

ABOUT TOKENGUARD

Tokenguard.io is the first automated rating agency for Ethereum and other blockchains. We use the most sophisticated tools to find bugs in tokens that would allow hackers take over your funds. There's no safe investing in ICOs without Tokenguard.

Tokenguard.io supports the construction of secure blockchain infrastructure for fintech and enterprise customers around the world.

LIABILITY CLAUSE

Please note that Tokenguard.io doesn't verify the economic foundation of the project but only its code correctness and security issues. We do not take any responsibility for any misuse or misunderstanding of the information provided and potential economic losses due to faulty investment decisions. This document doesn't ensure that the code itself is free from potential vulnerabilities that were not found. If any questions arise please contact us via www.tokenguard.io.

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Thank you for your attention!

in terms of any additional questions please contact: tom@tokenguard.io

more details: tokenguard.io