HackSafe

Smart Contract Security Audit Report

Ankr

May 2022

Security Status

★ ★ ★ ★ ★

www.hacksafe.io

Audit Details

Audited project
Ankr

Deployer address
0x146eE71e057e6B10eFB93AEdf631Fde6CbAED5E2

Client contacts
Ankr team

Blockchain
Binance smart chain

Website
https://www.ankr.com/

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

HackSafe was commissioned by ANKR to perform an audit of smart contracts:

- https://bscscan.com/address/0xf307910a4c7bbc79691fd374889b36d8531b08e3#code

Contract Details

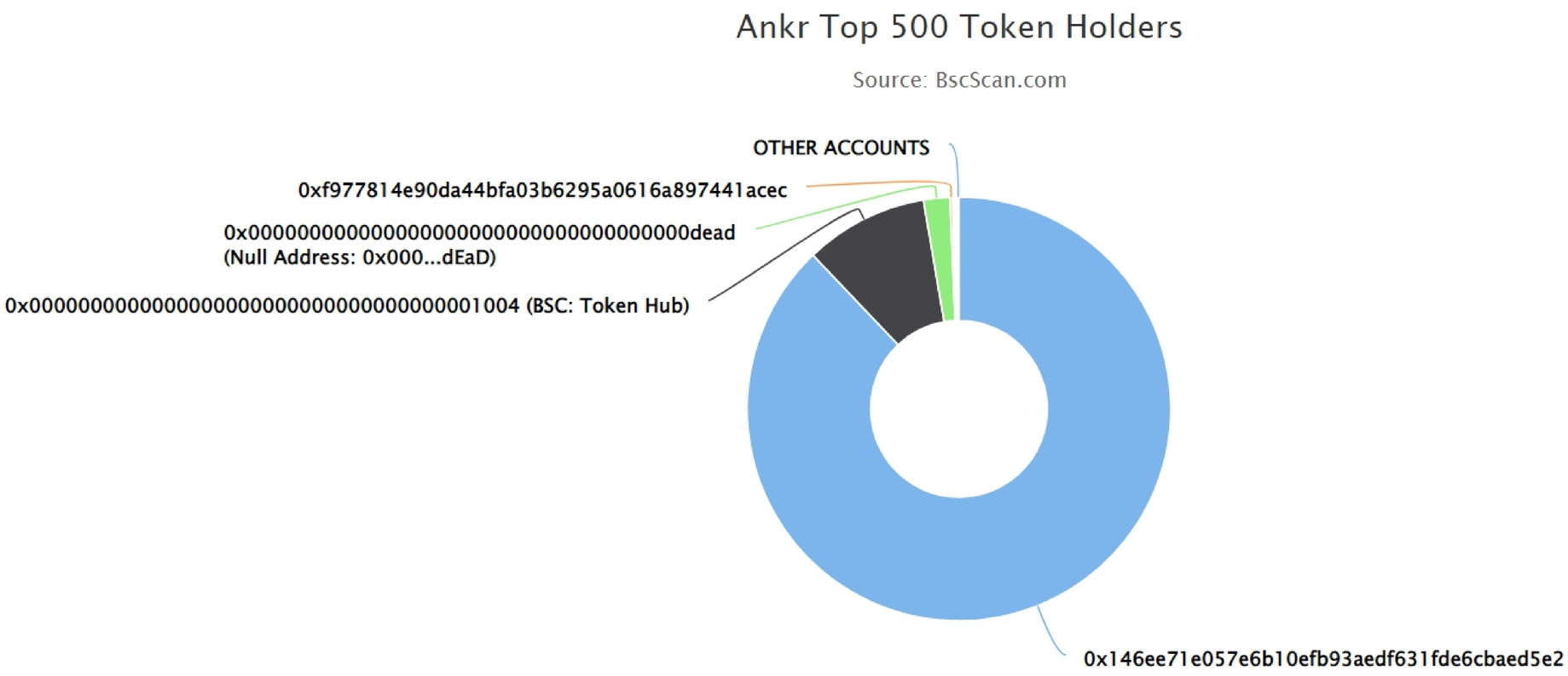
Token contract details for 14.05.2022

Contract name	: AnkrBEP20Token
Contract address	: 0xf307910A4c7bbc79691fD374889b36d8531B08e3
Total supply	: 10,000,000,000
Token Ticker	: ANKR
Decimals	: 18
Token Holders	: 25,197 address
Transactions count	: 185,707
Contract deployer address	: 0x146eE71e057e6B10eFB93AEdf631Fde6CbAED5E2
owner address	: 0x146ee71e057e6b10efb93aedf631fde6cbaed5e2

Ankr Token Distribution

The top 500 holders collectively own 99.87% (9,986,758,259.08 Tokens) of Ankr

Token Total Supply: 10,000,000,000.00 Token | Total Token Holders: 25,200



Ankr Top 20 Token Holders

(A total of 9,986,758,259.08 tokens held by the top 500 accounts from the total supply of 10,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x146ee71e057e6b10efb93aedf631fde6cbaed5e2	8,790,999,992	87.9100%
2	BSC: Token Hub	941,166,770.8243849	9.4117%
3	Null Address: 0x000...dEaD	200,000,003.567593	2.0000%
4	0xf977814e90da44bfa03b6295a0616a897441acec	21,500,000	0.2150%
5	PancakeSwap: Earn ANKR	6,055,941.998158009346269203	0.0606%
6	Binance: Hot Wallet 6	1,371,838.513971910265004847	0.0137%
7	0x2bf1a946326df670409c1b7458dc16de4973f224	977,512.99	0.0098%
8	0x9239df3e9996c776d539eb9f01a8ae8e7957b3c3	881,837.354327711117537025	0.0088%
9	0x2b091191cd35d9419a12703d9ab65b322aeb1854	778,733.832	0.0078%
10	0x540ebc5c92839c300cb64d8350811aeee0c2b91d	751,939.809109291172589473	0.0075%
11	0x57ddbdc52e402d7f2fffef9feec82cbbcd361f87	530,225.133155431171457374	0.0053%
12	0x3bf7290d64ed9ba11205918fd0d8aa889cd0dd19	500,001.08	0.0050%
13	0xe9ced0028500c61602e71be5269eb299cac6f1a2	450,000	0.0045%
14	0x7f828925d03e5c4c7bbde762764be81865f4a317	449,363.67832	0.0045%
15	0xbd5ed7e9fbdb6a7e7e91f9152ad7e33538cc3be0	428,791.32	0.0043%
16	0xc8a1bc8cfe3e53c4cb419bbfd340c8aaabbdad61	402,406.68	0.0040%
17	0x7388983bd7beba6cf6265f50b5b3acb241907537	398,506.4045	0.0040%
18	0x9e1ff0edd29c125c64b7ac0489df24ba837662b2	355,051.73	0.0036%
19	0x462612068e0de75fdcd22b1a5793d1f0080ec4c9	338,948.033	0.0034%
20	0x1cea51833ea6eb5156fdb7d41d8ddf17bb6116f3	330,551.6793	0.0033%

Contract functions details

+ [Int] IBEP20
    -[Ext] totalSupply
    -[Ext] decimals
    -[Ext] symbol
    -[Ext] name
    -[Ext] getOwner
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] transferFrom

+ Context
    <Constructor>
    -[Int] _msgSender
    -[Int] _msgData

+ [Lib] SafeMath
    -[Int] add
    - [Int] sub
    - [Int] sub
    -[Int] mul
    - [Int] div
    -[Int] div
    -[Int] mod
    -[Int] mod

+ Ownable (Context)
    -[Int] constructor #
    -[Pub] owner #
    -[Pub] renounceOwnership#
      -modifiers: onylOwner
    -[Pub] transferOwnership#
      -modifiers: onlyOwner
    -[Int] _transferOwnership#

Contract functions details

+ AnkrBEP20Token (Context, IBEP20, Ownable)
  - -[Pub] <constructor>
  - -[Ext] getOwner
  - - [Ext] decimals
  - - [Ext] name
  - - [Ext] symbol
  - - [Ext] totalSupply
  - - [Ext] balanceOf
  - - [Ext] transfer #
  - - [Ext] allowance
  - - [Ext] approve #
  - - [Ext] transferFrom #
  - -[Pub] increaseAllowance#
  - -[Pub] decreaseAllowance#
  - -[Pub] mint#
    - -modifiers: onlyOwner
  - - [Int] _transfer #
  - - [Int] _mint #
  - - [Int] _burn #
  - - [Int] _approve #
  - - [Int] _burnForm #

($) = payable function

= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Passed
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

Security Issues

Critical Severity Issues

No critical severity issue found.

High Severity Issues

No high severity issue found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

No low severity issue found.

Conclusion

Smart contract contains no severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.