



TechRate
AUDIT COMPANY

Smart Contract Security Audit

Audit Details



Audited project

AVNRich PVT. LTD



Deployer address

0xeb1d7202ff28ca65eb3b490163586f86e3e78922



Client contacts:

AVNRich Token team



Blockchain

Binance Smart Chain



Project website:

<https://avnrich.shop>

<https://farm.avnrichdefi.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

TechRate was commissioned by AVNRich Token to perform an audit of smart contracts:

<https://bscscan.com/address/0xbf151f63d8d1287db5fc7a3bc104a9c38124cdeb#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.

Contracts Details

Token contract details for 04.10.2021

Contract name	AVNRich Token
Contract address	0xbf151F63D8d1287db5FC7a3bc104a9c38124cdeB
Total supply	270,033,228.25
Token ticker	AVN
Decimals	18
Token holders	5
Transactions count	49
Top 100 holders dominance	100.00%
Contract deployer address	0xeb1d7202ff28ca65eb3b490163586f86e3e78922
Contract's current owner address	0xee963287b4ba63efcc91134ed2d729ef6537f85d

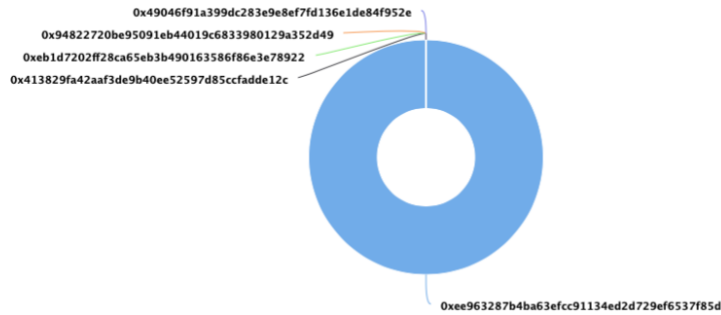
AVNRich Token Token Distribution

The top 100 holders collectively own 100.00% (270,033,228.25 Tokens) of AVNRich Token

Token Total Supply: 270,033,228.25 Token | Total Token Holders: 5

AVNRich Token Top 100 Token Holders

Source: BscScan.com



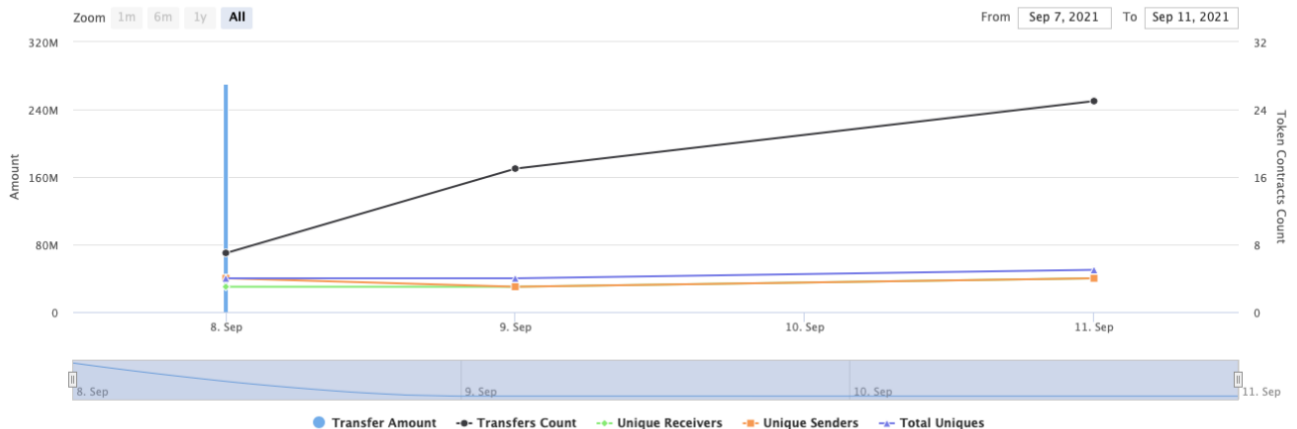
(A total of 270,033,228.25 tokens held by the top 100 accounts from the total supply of 270,033,228.25 token)

AVNRich Token Contract Interaction Details



Time Series: Token Contract Overview

Wed 8, Sept 2021 - Sat 11, Sept 2021

Token Contract 0xbf151f63d8d1287db5fc7a3bc104a9c38124cdeb (AVNRich Token)
Source: BscScan.com



AVNRich Token Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0xee963287b4ba63efcc91134ed2d729ef6537f85d	269,998,910.202901074375	99.9873%
2	 0x413829fa42aaf3de9b40ee52597d85ccfadde12c	30,167.660090483038	0.0112%
3	0xeb1d7202ff28ca65eb3b490163586f86e3e78922	4,040.84999999999939	0.0015%
4	0x94822720be95091eb44019c6833980129a352d49	99.637008442587	0.0000%
5	 0x49046f91a399dc283e9e8ef7fd136e1de84f952e	9.90000000000061	0.0000%



Contract functions details

- + AVNRichToken
 - [Pub] getOwner
 - [Pub] mint #
 - modifiers: issuerOnly
 - [Pub] burn #
 - modifiers: issuerOnly
 - [Pub] burnFrom #
 - modifiers: issuerOnly
 - [Pub] approve #
 - [Pub] transfer #
 - [Pub] transferFrom #
 - [Pub] transferOwnership #
 - modifiers: restricted
 - [Pub] setIssuerRights #
 - modifiers: restricted
 - [Pub] <Constructor> #

(\$) = payable function

= non-constant function

Issues Checking Status

Issue description		Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	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.	The impact of the exchange rate on the logic.	Passed
13.	Private user data leaks.	Passed
14.	Malicious Event log.	Passed
15.	Scoping and Declarations.	Passed
16.	Uninitialized storage pointers.	Passed
17.	Arithmetic accuracy.	Passed
18.	Design Logic.	Passed
19.	Cross-function race conditions.	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

✓ Low Severity Issues

No low severity issues found.

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

- Issuer can mint any amount of tokens.

```
function mint(address _to↑, uint256 _amount↑) public issuerOnly returns (bool success↑) {
    totalSupply += _amount↑;
    balanceOf[_to↑] += _amount↑;
    emit Transfer(address(0), _to↑, _amount↑);
    return true;
}
```

- Issuer can burn.

```
function burn(uint256 _amount↑) public issuerOnly returns (bool success↑) {
    totalSupply -= _amount↑;
    balanceOf[msg.sender] -= _amount↑;
    emit Transfer(msg.sender, address(0), _amount↑);
    return true;
}

ftrace | funcSig
function burnFrom(address _from↑, uint256 _amount↑) public issuerOnly returns (bool success↑) {
    allowance[_from↑][msg.sender] -= _amount↑;
    balanceOf[_from↑] -= _amount↑;
    totalSupply -= _amount↑;
    emit Transfer(_from↑, address(0), _amount↑);
    return true;
}
```

- Owner can edit issuers.

```
function setIssuerRights(address _issuer↑, bool _value↑) public restricted {
    isIssuer[_issuer↑] = _value↑;
    emit IssuerRights(_issuer↑, _value↑);
}
```

Conclusion

Smart contracts contain owner privileges!

TechRate 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.