



SMART CONTRACT SECURITY AUDIT

FireRocket

October, 2021

Website: soken.io

Table of Contents

Table of Contents	2
Disclaimer	3
Procedure	4
Terminology	5
Limitations	5
Token Contract Details for 29.10.2021	6
Audit Details	6
Social Profiles	7
Token Contract Overview	7
FIREROCKET Token Distribution	8
Vulnerabilities checking	9
Security Issues	10
Conclusion	11
Soken Contact Info	12

Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Our analysis contains following steps:

1. Project Analysis;
2. Manual analysis of smart contracts:
 - Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
 - Hashes of all transaction will be recorded
 - Behaviour of functions and gas consumption is noted, as well.
3. Unit Testing:
 - Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
 - In this phase intended behaviour of smart contract is verified.
 - In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
 - Gas limits of functions will be verified in this stage.
4. Automated Testing:
 - Mythril
 - Oyente
 - Manticore
 - Solgraph

Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

Token Contract Details for 29.10.2021

Contract Name: **FireRocket**

Deployed address: **0xF8740cAA02D45410De2DA9823C5d8b5924bc3B52**

Total Supply: **1,000,000,000,000,000**

Token Tracker: **FIREROCKET**

Decimals: **9**

Token holders: **243**

Transactions count: **1,251**

Top 100 holders dominance: **99.72%**

Audit Details



Project Name: **FireRocket**

Language: **Solidity**

Compiler version: **v.0.6.12**

Blockchain: **BSC**

Social Profiles

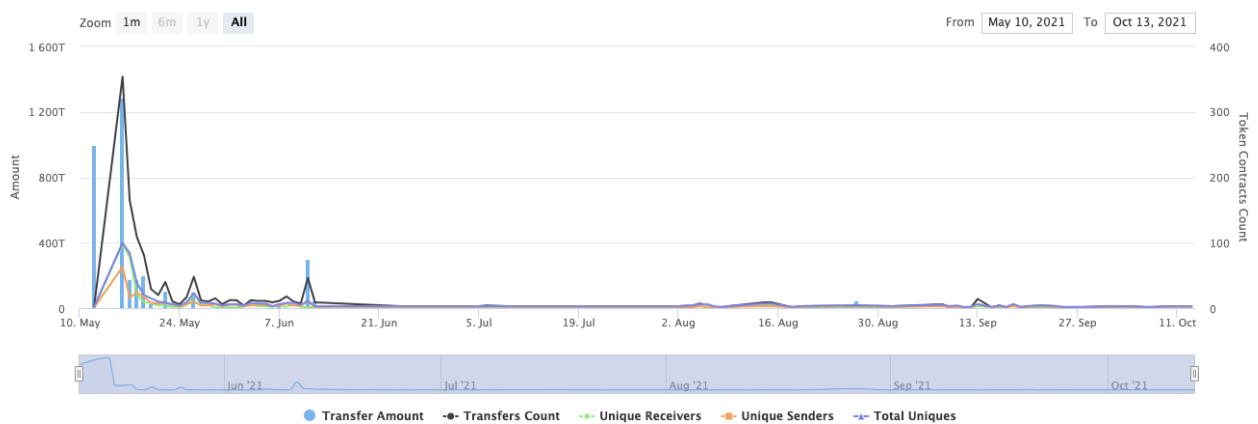
Project Website: **firerocket.net**

Project Twitter: **firerocketbsc**

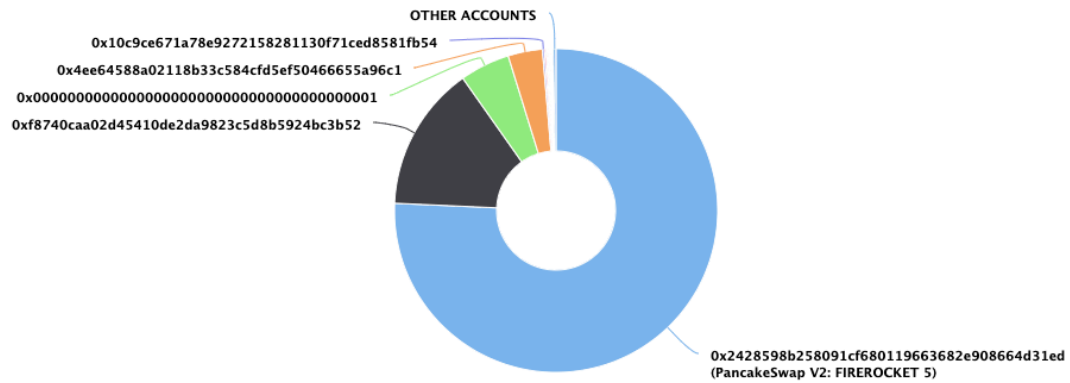
Project Announcement Telegram: **firerocketnews**

Project Community Telegram: **firerocket**

Token Contract Overview



FIREROCKET Token Distribution



FIREROCKET Top 10 Holders

Rank	Address	Quantity (Token)	Percentage
1	PancakeSwap V2: FIREROCKET 5	757,175,813,434,401.0053635	75.7176%
2	0xf8740caa02d45410de2da9823c5d8b5924bc3b52	145,044,052,069,738.494819143	14.5044%
3	0x00	50,000,225,068,103.706688029	5.0000%
4	0x4ee64588a02118b33c584cf5ef50466655a96c1	34,281,561,748,164.937312462	3.4282%
5	0x10c9ce671a78e9272158281130f71ced8581fb54	2,001,620,635,299.391484931	0.2002%
6	0x07d80ae6f36a5e08dca74ce884a24d39db9934ed	1,527,205,661,514.64371945	0.1527%
7	0x1da074c08054a16e35b8b34a25045baf4cd1d0b8	700,727,942,548.062415176	0.0701%
8	0xff5d3dcc9b040e4dc140d37dc7f002dd63adeb60	504,556,785,830.002987839	0.0505%
9	0xa55c15492b264584fc9d2ad2e51fd718a4dcd5c7	444,905,278,719.779220715	0.0445%
10	0x12f1d65b640db7621d014816fd21b3a2c09893e1	411,494,872,397.489908193	0.0411%

Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Low-issues
Outdated Compiler Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

Security Issues

1) Owner privileges:

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behavior (for example, disable selling or mint new tokens).

2) Out of Gas issue:

The function `includeInRewards()` uses the loop to find and remove addresses from the `_excluded` list. Function will be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.

```
function includeInReward(address account) external onlyOwner() {
    require(!_isExcluded[account], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

3) Out of Gas issue:

The function `_getCurrentSupply` also uses the loop for evaluating total supply. It also could be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.

```
function _getCurrentSupply() private view returns(uint256, uint256) {
    uint256 rSupply = _rTotal;
    uint256 tSupply = _tTotal;
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
        rSupply = rSupply.sub(_rOwned[_excluded[i]]);
        tSupply = tSupply.sub(_tOwned[_excluded[i]]);
    }
    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
    return (rSupply, tSupply);
}
```

Conclusion

Low-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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