soken

SMART CONTRACT SECURITY AUDIT

Digle

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Website: soken.io

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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 19.11.2021

Contract Name: **Digle**

Deployed address: **0x576B8033b60825C175f2d2F28759e00F564e0D4a**

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

Token Tracker: **DIGLE**

Decimals: **9**

Token holders: **1,070**

Transactions count: **4,204**

Top 100 holders dominance:
86.39%

Audit Details

Project Name: **Digle**

Language: **Solidity**

Compiler version: **v0.8.6**

Blockchain: **BSC**

Social Profiles

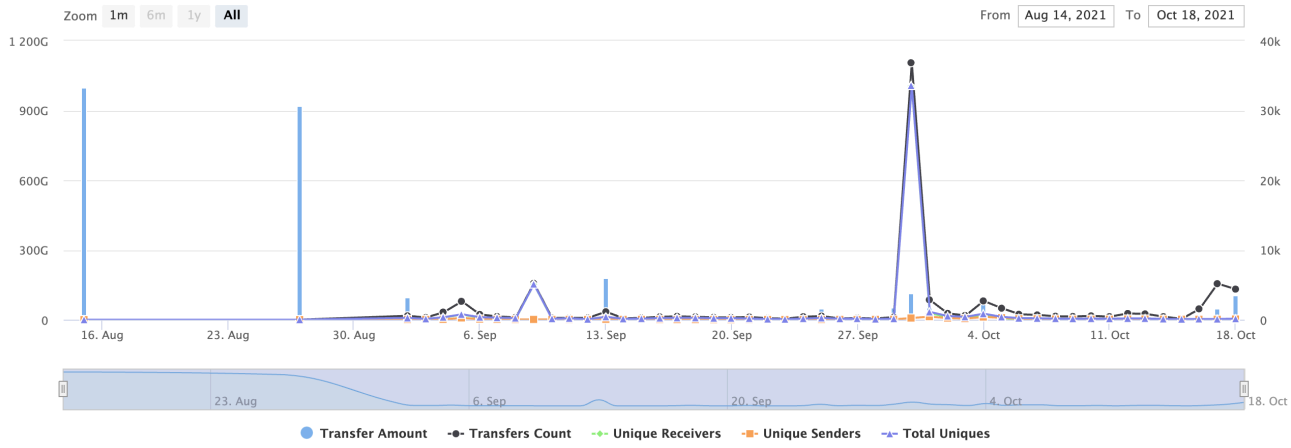
Project Website: **https://digle.space/**

Project Twitter: **https://twitter.com/digletoken**

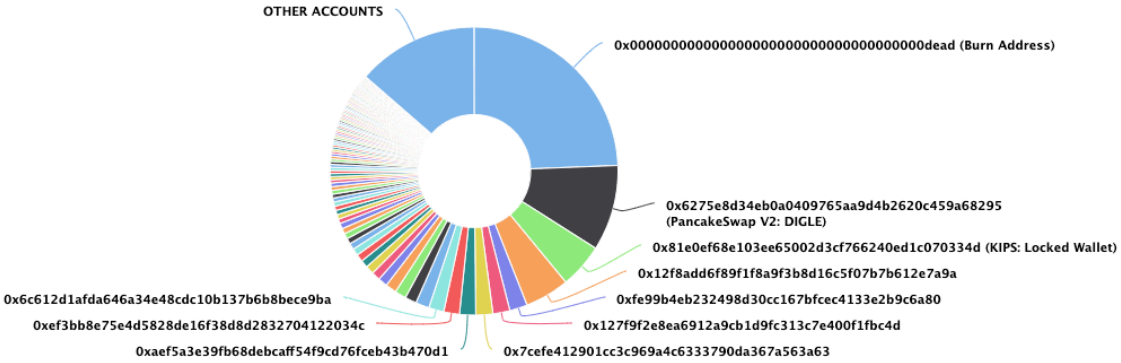
Project Announcement Telegram: **https://t.me/digletokenchannel**

Project Telegram Chat: **https://t.me/digletoken**

Token Contract Overview



DIGLE Token Distribution



DIGLE Top 10 Holders

Rank	Address	Quantity (Token)	Percentage
1	Burn Address	243,768,491,232.99191504	24.3768%
2	PancakeSwap V2: DIGLE	96,349,821,968.352319008	9.6350%
3	KIPS: Locked Wallet	50,036,396,462.02451729	5.0036%
4	0x12f8add6f89f1f8a9f3b8d16c5f07b7b612e7a9a	49,964,310,718.209448526	4.9964%
5	0xfe99b4eb232498d30cc167bfcec4133e2b9c6a80	19,986,653,730.102163204	1.9987%
6	0x127f9f2e8ea6912a9cb1d9fc313c7e400f1fbc4d	19,100,325,152.386266928	1.9100%
7	0x7cefe412901cc3c969a4c6333790da367a563a63	19,000,378,824.972793554	1.9000%
8	0xaef5a3e39fb68debcaff54f9cd76fceb43b470d1	18,190,997,306.985351078	1.8191%
9	0xef3bb8e75e4d5828de16f38d8d2832704122034c	17,640,886,918.239495406	1.7641%
10	0x6c612d1afda646a34e48cdc10b137b6b8bece9ba	17.006.802.720.24626177	1.7007%

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	Completed
Outdated Complier 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) Volatile Code:

The return values of functions *swapExactTokensForETHSupportingFeeOnTransferTokens* and *addLiquidityETH* are not properly handled.

3) Size warning:

Contract code size exceeds 24576 bytes. Consider enabling the optimizer, turning off revert strings, or using libraries.

4) 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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