

SMART CONTRACT SECURITY AUDIT

Final report Plan: Simple

Pawthereum

January 2022

rugdog.net

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Pawthereum





This report has been compiled by the RugDog auditing team for the Pawthereum project.

The reviewed project is a PAWTH token contract.

Name Pawthereum

Audit date 2022-01-17 - 2022-01-26

Language Solidity

Network Binance Smart Chain

♦ CONTRACTS CHECKED

Name Address

Pawthereum 0x409e215738E31d8aB252016369c2dd9c2008Fee0

AUDIT PROCESS

The code was audited by the team according to the following order:

Automated analysis

- Scanning the project's smart contracts with several publicly available automated Solidity analysis tools
- Manual confirmation of all the issues found by the tools

Manual audit

Thorough manual analysis of smart contracts for security vulnerabilities

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♦ Smart contracts' logic check

ATTACKS CHECKED

Title	Check result
Unencrypted Private Data On-Chain	✓ passed
Code With No Effects	✓ passed
Message call with hardcoded gas amount	✓ passed
Typographical Error	✓ passed
DoS With Block Gas Limit	X not passed
Presence of unused variables	✓ passed
Incorrect Inheritance Order	✓ passed
Requirement Violation	✓ passed
Weak Sources of Randomness from Chain Attributes	✓ passed
Shadowing State Variables	✓ passed
Incorrect Constructor Name	✓ passed
Block values as a proxy for time	✓ passed
Authorization through tx.origin	✓ passed

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DoS with Failed Call	✓ passed
Delegatecall to Untrusted Callee	✓ passed
Use of Deprecated Solidity Functions	✓ passed
Assert Violation	✓ passed
State Variable Default Visibility	✓ passed
Reentrancy	✓ passed
Unprotected SELFDESTRUCT Instruction	✓ passed
Unprotected Ether Withdrawal	✓ passed
Unchecked Call Return Value	✓ passed
Floating Pragma	✓ passed
Outdated Compiler Version	✓ passed
Integer Overflow and Underflow	✓ passed
Function Default Visibility	✓ passed

♦ CLASSIFICATION OF ISSUES

High severity Issues leading to assets theft, locking or any other loss of assets or

leading to contract malfunctioning.

Medium severity Issues that can trigger a contract failure of malfunctioning.

Low severity Issues that do now affect contract functionality. For example,

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Low severity

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High severity issues

No issues were found

Medium severity issues

No issues were found

Low severity issues

1. Not enough gas (Pawthereum)

The loop is used by the includeAccount() function to detect and remove addresses from _excluded.

The function gets aborted if the list of excluded addresses is long with an OUT_OF_GAS exception.

The same goes for the _getReflectionRate() while evaluating the total supply.

Recommendation: Check for the length of the excluded array

2. Excessive owner privileges (Pawthereum)

If the owner is not renounced, they have excessive privileges:

Initializing liquidity;

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Changing fees, the address of IPTokenHolder, marketing, staking wallet and charity address, the maximum transaction amount the maximum number of tokens in a swap;

Withdrawing BNB and ERC20;

Updating Uniswap pair and router;

Including and excluding addresses from taxes, from automatedMarketMakerPairs;

Enabling and disabling swapAndLiquifyMarketing & swapAndLiquifyCharity, taxes, burn, liquidity, marketing, and charity fees;

Recalculating _liquidityTokensToSwap, _marketingTokensToSwap, _charityTokensToSwap values.

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♦ CONCLUSION

Pawthereum Pawthereum contract was audited. 2 low severity issues were found.

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