

COMPLETE AUDIT REPORT

Security Assessment

PAWztoken

Aug 22nd, 2021

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Disclaimer

<u>About</u>



Summary

This report has been prepared for PAWZToken to discover issues and vulnerabilities in the source code of the PAWZToken project as well as any contract dependencies that were not part of an ofcially recognized library. A comprehensive examination has been performed, utilizing Static Analysis and Manual Review techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases;
- Provide more comments per each function for readability, especially contracts that are verifed in public;
- Provide more transparency on privileged activities once the protocol is live.



Overview

Project Summary

Project Name	PAWZToken
Platform	BSC
Language	Solidity
Codebase	 https://bscscan.com/address/0xd92aacc1c84e6a4ada48bb2648598b30adf1d1 bd#code https://bscscan.com/address/0xcb5f9b3f12aef688416d1405df0e45b591fa6bc #code
Commit	 https://bscscan.com/address/0xa54a5e77b126b0e920af521133e0f3e735b6fa0

Audit Summary

Delivery Date	Aug 22, 2021
Audit Methodology	Static Analysis, Manual Review
Key Components	

Vulnerability Summary

Vulnerability Level	Total	Pending	Declined	Acknowledged	Partially Resolved	
Critical	0	0	0	0	0	0
Major	2	0	0	0	0	2
Medium	3	0	0	1	0	2
Minor	3	0	0	3	0	0
Informational	8	0	0	3	0	5
Discussion	0	0	0	0	0	0



Audit Scope

ID	File	SHA256 Checksum
PAW	PAWZToken.sol	01fb4807fba0eda416a41fc03f78f4bb44dd1e78490193357fd29dcadada7ead



Review Notes

Dependencies

There are a few depending injection contracts or addresses in the current project:



We assume these contracts or addresses are valid and non-vulnerable actors and implementing proper logic to collaborate with the current project.

Privileged Functions

The role of the contract can operate on the many privileged functions as we grouped below.

Account management functions for inclusion and exclusion in the fee and reward system:

- PAWZToken.excludeFromReward(address)
- PAWZToken.includeInReward(address)
- PAWZToken.excludeFromFee(address)
- PAWZToken.includeInFee(address)

Modification of fees, threshold token amount, and proportion of BNB allocation:

- PAWZToken.setTaxFeePercent(uint256, uint256)
- PAWZToken.setMaxTxAmount(uint256)
- PAWZToken.setCharityDivisor(uint256)
- PAWZToken.setMarketingDivisor(uint256)
- PAWZToken.setBuyBackDivisor(uint256)
- PAWZToken.setLPDivisor(uint256)
- PAWZToken.setNumTokensSellToAddToLiquidity(uint256)

Confguration of charity, buyback, and marketing addresses:

- PAWZToken.setCharityAddress(address)
- PAWZToken.setBuyBackAddress(address)
- PAWZToken.setMarketingAddress(address)

Toggle feature of the LP acquisition mechanism and sale phases:



•	PAWZToken.setSwapAndLiquifyEnabled(bool)
•	PAWZToken.setLPEnabled(bool)
•	PAWZToken.prepareForPreSale()
	DAMAMakan afterDracala()

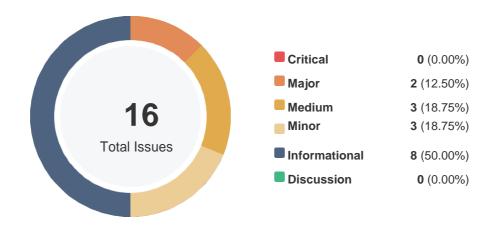
Manipulation of the contract ownership:

- Ownable.renounceOwnership()
- Ownable.transferOwnership(address)

To improve the trustworthiness of the project, dynamic runtime updates in the project should be notifed to the community. Any plan to invoke the aforementioned functions should be also considered to move to the execution queue of the contract.



Findings



ID	Title	Category	Severity	Status
PAW-01	Centralization Risk in addLiquidity	Centralization / Privilege	Major	⊗ Resolved
PAW-02	Disproportionate BNB Allocation and Liquidity Tokens	Logical Issue	Major	⊘ Resolved
PAW-03	Centralization Risk	Centralization / Privilege	Medium	(i) Acknowledged
PAW-04	Non-Guaranteed Sum of Divisors	Logical Issue	Medium	
PAW-05	Possible to Gain Ownership after Renouncing the Contract Ownership	Logical Issue, Centralization / Privilege	Medium	
PAW-06	Incorrect Error Message	Logical Issue	Minor	(i) Acknowledged
PAW-07	Third Party Dependencies	Control Flow	Minor	① Acknowledged
PAW-08	Potential Sandwich Attack	Volatile Code	Minor	(i) Acknowledged
PAW-09	Typo in the Contract	Coding Style	Informational	Resolved
PAW-10	Return Value Not Handled	Volatile Code	Informational	(i) Acknowledged
PAW-11	Missing Event Emitting	Coding Style	Informational	(i) Acknowledged



ID	Title	Category	Severity	Status
PAW-12	Unused Event	Coding Style	Informational	(i) Acknowledged
PAW-13	Variable Could Be Declared As constant.	Gas Optimization	Informational	⊗ Resolved
PAW-14	Function and Variable Naming Doesn't Match the Operating Environment	Coding Style	Informational	√ Resolved
PAW-15	Division Before Multiplication	Language Specifc	● Informational	solved
PAW-16	Liquidity Can Only Be Added When Selling the Token	Logical Issue	Informational	√ Resolved



PAW-01 | Centralization Risk i

Category	Severity	Location	Status
Centralization / Privilege	Major	PAWZToken.sol: 711	⊘ Resolved

Description



```
715  // add the liquidity
716  uniswapV2Router.addLiquidityETH{value: ethAmount}(
717     address(this),
718     tokenAmount,
719     0, // slippage is unavoidable
720     0, // slippage is unavoidable
721     owner(),
722     block.timestamp
723 );
```

Recommendation

We advise the address of the miswapv2Router additional function call to be replaced by the contract itself, i.e. address (fines), and to restrict the management of the LP tokens within the scope of the contract's business logic. This will also protect the LP tokens from being stolen if the compromised. In general, we strongly recommend centralized privileges or roles in the protocol to be improved via a decentralized mechanism or via smart-contract-based accounts with enhanced security practices, e.g., Multisignature wallets.

Indicatively, here are some feasible solutions that would also mitigate the potential risk:

- Time-lock with reasonable latency, e.g. 48 hours, for awareness on privileged operations;
- Assignment of privileged roles to multi-signature wallets to prevent a single point of failure due to the private key;
- Introduction of a DAO/governance/voting module to increase transparency and user involvement.

Alleviation



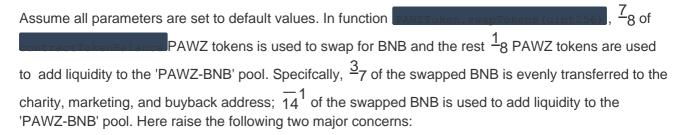
The client heeded our advice and resolved this issue by setting the recipient of the liquidity tokens to address (this). The fxing is refected in the code deployed at



PAW-02 | Disproportionate BNB Allocation and Liquidity Tokens

Category	Severity	Location	Status
Logical Issue	Major	PAWZToken.sol: 654~672	⊗ Resolved

Description



- 1. There will be half of the swapped BNB accumulated in the contract for each call of function

 PANYZTOKEN. SWAPTOKENS (ULINE256). Meanwhile, the contract does not appear to provide a way to withdraw those BNB, and they will be locked in the contract forever.
- 2. While adding liquidity, the value of 'tokenAmountForLP' PAWZ tokens (i.e., $\frac{1}{8}$ of contractTokenBalance PAWZ tokens) does not match that of ETHAMOUNTFORLP BNB (i.e., $\frac{1}{14}$ of the swapped BNB).

We expect the PAWZ team to provide more details about their design in terms of allocating swapped BNB and adding liquidity.

Alleviation

The client updated the allocation of swapped BNB. Specifcally, $\frac{6}{7}$ of the swapped BNB is evenly transferred to the charity, marketing, and buyback address; $\frac{1}{7}$ of the swapped BNB is used to add liquidity to the 'PAWZ-BNB' pool. The fxing is refected in the code deployed at



PAW-03 | Centralization Risk

Category	Severity	Location	Status
Centralization /	Medium	PAWZToken.sol: <u>585</u> , <u>595</u> , <u>866</u> , <u>870</u> , <u>874</u> , <u>879</u> , <u>883</u> , <u>887</u> , <u>891</u> , <u>895</u> , <u>901</u> , <u>905</u> , <u>908</u> , <u>911</u> , <u>915</u> , <u>920</u> , <u>924</u> , <u>931</u>	(i) Acknowledged

Description

With the modifer will yowner, the 'owner' has the authority to call the following 18 sensitive functions to change the settings of the contract.

- PAWZToken.excludeFromReward(address)
- PAWZToken.includeInReward(address)
- PAWZToken.excludeFromFee(address)
- PAWZToken.includeInFee(address)
- PAWZToken.setTaxFeePercent(uint256, uint256)
- PAWZToken.setMaxTxAmount(uint256
- PAWZToken.setCharityDivisor(uint256)
- PAWZToken.setMarketingDivisor(uint256)
- PAWZToken.setBuyBackDivisor(uint256)
- PAWZToken.setLPDivisor(uint256)
- PAWZToken.setNumTokensSellToAddToLiquidity(uint256)
- PAWZToken.setCharitvAddress(address)
- PAWZToken.setBuvBackAddress(address)
- DAMEMolton antMarketingAddress (address)
- PAWZToken.setSwapAndLiquifyEnabled(bool)
- PAWZToken.setLPEnabled(bool)
- PAWZToken.prepareForPreSale()
- PAWZToken.afterPreSale()

Any compromise to the account may allow the hacker to adversarially manipulate the settings of the contract.

Recommendation

We advise the client to carefully manage the 'owner' account's private key to avoid any potential risks of being hacked. In general, we strongly recommend centralized privileges or roles in the protocol to be



improved via a decentralized mechanism or via smart-contract-based accounts with enhanced security practices, e.g., multisignature wallets.

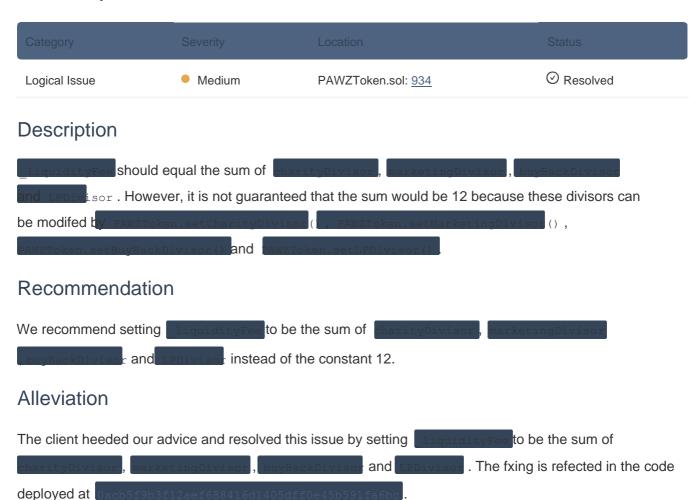
Indicatively, here are some feasible solutions that would also mitigate the potential risk:

- Timelock with reasonable latency, e.g. 48 hours, for awareness on privileged operations; Assignment
- of privileged roles to multi-signature wallets to prevent a single point of failure due to the private key;
- Introduction of a DAO/governance/voting module to increase transparency and user involvement.

Alleviation



PAW-04 | Non-Guaranteed Sum of Divisors

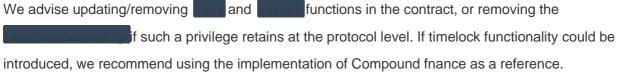




PAW-05 | Possible to Gain Ownership after Renouncing the Contract Ownership

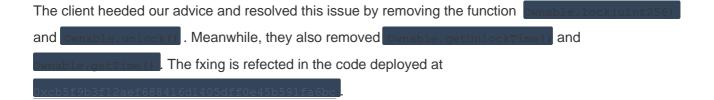
Category	Severity	Location	Status
Logical Issue, Centralization / Privilege	Medium	PAWZToken.sol: <u>189</u>	

Description
An owner is possible to gain ownership of the contract even if he/she calls the function
renounceOwnership to renounce the ownership. This can be achieved by performing the following
operations:
1. Call lock to lock the contract. The variable previousowner is set to the current owner.
2. Call to unlock the contract.
3. Call renounceownership to leave the contract without an owner.
4. Call to regain ownership.
Recommendation
We advise undering reposing the



Reference: https://github.com/compound-fnance/compound-protocol/blob/master/contracts/Timelock.sol

Alleviation





PAW-06 | Incorrect Error Message

Category	Severity	Location	Status
Logical Issue	Minor	PAWZToken.sol: <u>596</u>	(i) Acknowledged

Description

The error message in $\[\text{require}(\[\text{isExcluded}\[\text{account}\]),\ \text{"Account is already excluded"})\]$ does not describe the error correctly.

Recommendation

The message "Account is already excluded" should be changed to "Account is not excluded" .

Alleviation



PAW-07 | Third Party Dependencies

Category	Severity	Location	Status
Control Flow	Minor	PAWZToken.sol: <u>484</u>	① Acknowledged

Description

The contract is serving as the underlying entity to interact with third-party PancakeSwap protocols. The scope of the audit treats third-party entities as black boxes and assumes their functional correctness. However, in the real world, third-party entities can be compromised and this may lead to lost or stolen assets. In addition, upgrades of third-party entities can possibly create severe impacts, such as increasing fees of third-party entities, migrating to new LP pools, etc.

Recommendation

We understand that the business logic of the PAWZ protocol requires the interaction PancakeSwap protocol for adding liquidity to the PAWZ-BNB pool and swapping tokens. We encourage the team to constantly monitor the statuses of those third-party entities to mitigate the side efects when unexpected activities are observed.

Alleviation



PAW-08 | Potential Sandwich Attack

Category	Severity	Location	Status
Volatile Code	Minor	PAWZToken.sol: <u>680~686</u> , <u>701~706</u> , <u>716~723</u>	① Acknowledged

Description

Potential sandwich attacks could happen if calling



For example, when we want to make a transaction of swapping 100 AToken for 1 ETH, an attacker could raise the price of ETH by adding AToken into the pool before the transaction so we might only get 0.1 ETH. After the transaction, the attacker would be able to withdraw more than he deposited because the total value of the pool increases by 0.9 ETH.

Recommendation

We recommend setting reasonable minimum output amounts, instead of 0, based on token prices when calling the aforementioned functions.

Alleviation



PAW-09 | Typo in the Contract

Category	Severity	Location	Status
Coding Style	Informational	PAWZToken.sol: <u>471</u>	

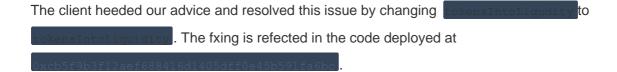
Description

The variable name tokensIntoLiqudity should be tokensIntoLiquidity

Recommendation

We recommend correcting this typo in the contract.

Alleviation





PAW-10 | Return Value Not Handled

Category	Severity	Location	Status
Volatile Code	Informational	PAWZToken.sol: 716	① Acknowledged

Description

The return values of function additional are not properly handled.

```
uniswapV2Router.addLiquidityETH(value: ethAmount)(
address(this),
tokenAmount,

0, // slippage is unavoidable

0, // slippage is unavoidable

owner(),

block.timestamp

);
```

Recommendation

We recommend using variables to receive the return value of the functions mentioned above and handle both success and failure cases if needed by the business logic.

Alleviation



PAW-11 | Missing Event Emitting

Category	Severity	Location	Status
Coding Style	Informational	PAWZToken.sol: <u>585</u> , <u>595</u> , <u>866</u> , <u>870</u> , <u>874</u> , <u>879</u> , <u>883</u> , <u>887</u> , <u>891</u> , <u>895</u> , <u>901</u> , <u>905</u> , <u>908</u> , <u>911</u> , <u>920</u> , <u>924</u> , <u>931</u>	(i) Acknowledged

Description

In the contract (as listed below) do not emit events to pass the changes out of the chain:



Recommendation

We recommend declaring and emitting corresponding events for all the essential state variables that are possible to be changed during runtime.

Alleviation



PAW-12 | Unused Event

Category	Severity	Location	Status
Coding Style	Informational	PAWZToken.sol: <u>468</u> , <u>469</u> , <u>471</u>	① Acknowledged

Description

The events of RewardLiquidityProviders , BuyBackEnabledUpdates , and SwapAndLiquify are declared but never used.

Recommendation

We recommend removing these events or emitting them in the right places.

Alleviation



PAW-13 | Variable Could Be Declared American

Category	Severity	Location	Status
Gas Optimization	Informational	PAWZToken.sol: <u>435</u> , <u>439~441</u>	

Description

Variables total, and symbol , and decimals could be declared as constant since these state variables are never to be changed.

Recommendation

We recommend declaring those variables as constant.

Alleviation

The client heeded our advice and resolved this issue by declaring aforementioned variables as The fxing is refected in the code deployed at geo/seample.com/geo/spin/4054ff0e45b591fa6bc.



PAW-14 | Function and Variable Naming Doesn't Match the Operating Environment

Category	Severity	Location	Status
Coding Style	Informational	PAWZToken.sol: <u>460</u> , <u>674</u> , <u>694</u>	

Description

The PAWZToken contract uses PancakeSwap for swapping and adding liquidity to the PancakeSwap pool, but naming it Uniswap. Function PAWZToken. SwapTokensForEth (uint256) swaps PAWZ token for BNB instead of ETH, and similify function PAWZToken. SwapETHFOrTokens (uint256) swaps BNB instead of ETH for PAWZ token.

Recommendation

We recommend changing "Uniswap" and "ETH" to "PancakeSwap" and "BNB" in the contract respectively to match the operating environment and avoid confusion.

Alleviation

The client heeded our advice and resolved this issue by changing "Uniswap" and "ETH" to "PancakeSwap" and "BNB", respectively, in the contract. The fxing is refected in the code deployed at



PAW-15 | Division Before Multiplication

Category	Severity	Location	Status
Language Specifc	Informational	PAWZToken.sol: <u>655</u> , <u>661</u> , <u>663</u> , <u>665</u> , <u>667</u>	

Description

In function PAWZToken, swapTokens (uint 256), the division operations are performed before the multiplication operations, while performing multiplication before division can sometimes reduce or avoid loss of precision.

Recommendation

We recommend performing multiplication before division to avoid the loss of precision.

Alleviation

The client heeded our advice and resolved this issue by performing multiplication before division in aforementioned places. The fxing is refected in the code deployed at

)xcb5f9b3f12aef688416d1405dff0e45b591fa6bc



PAW-16 | Liquidity Can Only Be Added When Selling the Token

Category	Severity	Location	Status
Logical Issue	Informational	PAWZToken.sol: <u>637</u>	

Description

To add liquidity, the condition constraints are true, liquidity can only be added if and only if the current transaction sells the PAWZ token. We expect the PAWZ team to confrm whether this is the intended design.

Alleviation

The client removed the condition to the sell transaction anymore. The fxing is refected in the code deployed at



Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

Gas Optimization

Gas Optimization findings do not afect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how block.timestamp works.

Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invoke-able by anyone under certain circumstances.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

Language Specific

Language Specifc findings are issues that would only arise within Solidity, i.e. incorrect usage of private or delete.

Coding Style

Coding Style findings usually do not afect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

Checksum Calculation Method



The "Checksum" feld in the "Audit Scope" section is calculated as the SHA-256 (Secure Hash Algorithm 2 with digest size of 256 bits) digest of the content of each fle hosted in the listed source repository under the specifed commit.

The result is hexadecimal encoded and is the same as the output of the Linux "sha256sum" command against the target fle.



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Founded in 2017 by leading academics in the feld of Computer Science from both Yale and Columbia University, AuditeK is a leading blockchain security company that serves to verify the security and correctness of smart contracts and blockchain-based protocols. Through the utilization of our world-class technical expertise, alongside our proprietary, innovative tech, we're able to support the success of our clients with best-in-class security, all whilst realizing our overarching vision; provable trust for all throughout all facets of blockchain.

