

Smart contract security audit report





Audit Number = 202106111131

Report Query Name =

QuickswapAccruingStrategy Smart Contract

Address Link:

https://github.com/RAMP-DEFI/strategy-quicks wap-accruing/blob/main/contracts/strategies/polygon/Quicks wapAccruingStrategy.sol

Commit Hash:

Start: 17836bc5dee3cbb920d7636cdffaf97d3bd442d0

Final: 04e2033f4baf2985d69f3d49c73963846b5fdd61

Start Date = 2021.06.03

Completion Date = 2021.06.11

Overall Result = Pass

Audit Team: Beosin (Chengdu LianAn) Technology Co. Ltd.

Audit Categories and Results:

No.	Categories	Subitems	Results
1	Coding Conventions	Compiler Version Security	Pass
		Deprecated Items	Pass
		Redundant Code	Pass
		SafeMath Features	Pass
		require/assert Usage	Pass
		Gas Consumption	Pass
		Visibility Specifiers	Pass
		Fallback Usage	Pass
2	General Vulnerability	Integer Overflow/Underflow	Pass
		Reentrancy	Pass
		Pseudo-random Number Generator (PRNG)	Pass
		Transaction-Ordering Dependence	Pass
		DoS (Denial of Service)	Pass
		Access Control of Owner	Pass



		Low-level Function (call/delegatecall) Security	Pass
		Returned Value Security	Pass
		tx.origin Usage	Pass
		Replay Attack	Pass
	/ _A Y.	Overriding Variables	Pass
2	Business Security	Business Logics	Pass
3	Dusiness Security	Business Implementations	Pass

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Audit Results Explained:

Beosin (Chengdu LianAn) Technology has used several methods including Formal Verification, Static Analysis, Typical Case Testing and Manual Review to audit three major aspects of contract QuickswapAccruingStrategy, including Coding Standards, Security, and Business Logic. The QuickswapAccruingStrategy contract passed all audit items. The overall result is Pass. The smart contract is able to function properly.

1. Coding Conventions

Check the code style that does not conform to Solidity code style.

1.1 Compiler Version Security



- Description: Check whether the code implementation of current contract contains the exposed solidity compiler bug.
- Result: Pass

1.2 Deprecated Items

- Description: Check whether the current contract has the deprecated items.
- Result: Pass

1.3 Redundant Code

- Description: Check whether the contract code has redundant codes.
- Result: Pass

1.4 SafeMath Features

- Description: Check whether the SafeMath has been used. Or prevents the integer overflow/underflow in mathematical operation.
- Result: Pass

1.5 require/assert Usage

- Description: Check the use reasonability of 'require' and 'assert' in the contract.
- Result: Pass

1.6 Gas Consumption

- Description: Check whether the gas consumption exceeds the block gas limitation.
- Result: Pass

1.7 Visibility Specifiers

- Description: Check whether the visibility conforms to design requirement.
- Result: Pass

1.8 Fallback Usage

- Description: Check whether the Fallback function has been used correctly in the current contract.
- Result: Pass

2. General Vulnerability

Check whether the general vulnerabilities exist in the contract.

2.1 Integer Overflow/Underflow

- Description: Check whether there is an integer overflow/underflow in the contract and the calculation result is abnormal.
- Result: Pass

2.2 Reentrancy



- Description: An issue when code can call back into your contract and change state, such as withdrawing ETH.
- Result: Pass
- 2.3 Pseudo-random Number Generator (PRNG)
 - Description: Whether the results of random numbers can be predicted.
 - Result: Pass
- 2.4 Transaction-Ordering Dependence
 - Description: Whether the final state of the contract depends on the order of the transactions.
 - Result: Pass
- 2.5 DoS (Denial of Service)
 - Description: Whether exist DoS attack in the contract which is vulnerable because of unexpected reason.
 - Result: Pass
- 2.6 Access Control of Owner
 - Description: Whether the owner has excessive permissions, such as malicious issue, modifying the balance of others.
 - Result: Pass
- 2.7 Low-level Function (call/delegatecall) Security
 - Description: Check whether the usage of low-level functions like call/delegatecall have vulnerabilities.
 - Result: Pass
- 2.8 Returned Value Security
 - Description: Check whether the function checks the return value and responds to it accordingly.
 - Result: Pass
- 2.9 tx.origin Usage
 - Description: Check the use secure risk of 'tx.origin' in the contract.
 - Result: Pass
- 2.10 Replay Attack
 - Description: Check whether the implement possibility of Replay Attack exists in the contract.
 - Result: Pass
- 2.11 Overriding Variables
 - Description: Check whether the variables have been overridden and lead to wrong code execution.
 - Result: Pass

