

Smart Contract Audit Report

Audit was conducted on the Speakeasy Smart Contract System

Smart Contract	Code Review and Security Analysis Report for Speakeasy
Type Of Utility	BEP20 Token
Platform	BSC - Ethereum Virtual Machine
Language	Solidity ^0.8.0
Address	0xadd052B0E1B8F611cFD6AA0cDc3cC93Ff6520b1a

Audit Score

Section	Score
Codebase Security	100%
Codebase Complexity and Practices	100%
Owner Privileges and Control	90%
Overall Score	96%

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Scope of the audit

This Audit Report mainly focuses on the overall security of the Speakeasy token Smart Contract. This audit was conducted with rigorous attention to the general implementation of the contract and by examining the overall architectural layout of the software implementation. The reliability and correctness of this smart contract's codebase are being assessed

Security Scope

Identifies security related issues within each contract and the system of contract.

General Code Quality

A full assessment of the code quality and general software architecture patterns and best practices used.

Auditing Methods Used

Rigorous testing of the project has been performed. Detailed code base analysis was conducted, reviewing the smart contract architecture to ensure it is structured and safe.

A detailed, line by line inspection of the codebase was conducted to find any potential security vulnerabilities such as denial of service attacks, race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

Automated and manual testing was employed that included:

- Analysis of on-chain data security
- Analysis of the code in-depth and detailed, manual review of the code, line-by-line.
- Deployment of the code on an in-house testnet blockchain and running live tests.
- Determining failure preparations and if worst-case scenario protocols are in place
- Analysis of any third-party code use and verifying the overall security of this

Tools Used: Remix IDE, Ganache, Solhint, VScode, Mythril, Contract Library Hardhat

Assessing Possible Issues

Any issue detected during the conduction of this audit will be categorized under one of 3 severity levels: low, medium, and high.

Low level Severity Issues

Issues that do not pose any serious threat to the functionality of the software

Medium level Severity issues

Issues that can cause potential problems to the overall health of the software application but that can be fixed without having any breaking changes on the current functionality

High level Severity issues

Critical issues that affect the smart contract's overall performance and functionality. These issues should be fixed urgently.

General Issues Report

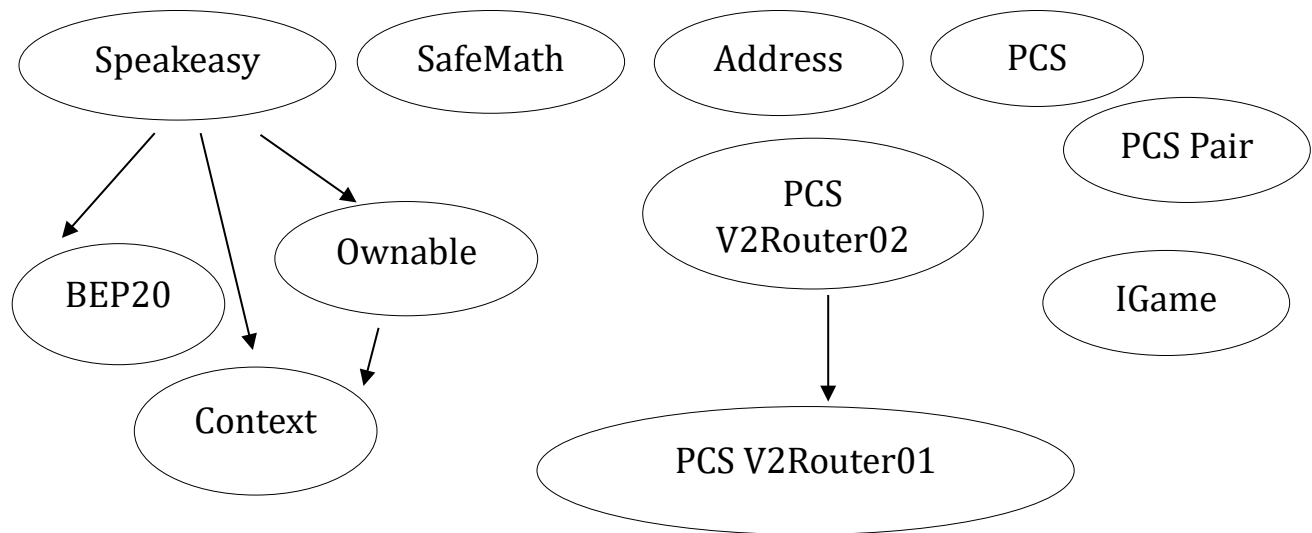
General issues that were found during manual and automatic assessments

No	Issue Verification	Status
1	Compiler warnings	Passed
2	Reentrancy and Race Conditions.	Passed
3	Possible delays in data delivery.	Passed
4	Oracle calls.	Passed
5	DoS with block gas limit.	Passed
6	DoS with Revert.	Passed
7	Timestamp dependence.	Passed
8	Methods execution permissions.	Passed
9	Economy model.	Passed
10	Exchange impact rate on the logic.	Passed
11	Private user data leaks.	Passed
12	Scoping and Declarations.	Passed
13	Arithmetic accuracy.	Passed

Issues Found

Low Level Severity	Medium Level Severity	High Level Severity
0	0	0

Contract Dependency Graphs



Manual Code Inspection

The code of the target contract and its dependencies was reviewed, deployed, and manually tested by our developers.

No	Contract	Issues
1	Speakeasy.sol	1
2	DividendTracker.sol	0
3	DividendPayingToken.sol	0

Issues Found

Low Level Severity	Medium Level Severity	High Level Severity
1	0	0

Inspections

Contract: Speakeasy

Address: 0xadd052B0E1B8F611cFD6AA0cDc3cC93Ff6520b1a

Issues: 1

Notes: BEP20 Token

1. Unreachable Code

Code Line: 1185

Severity: Medium

Method: Code is unreachable due to the state organization of the "liquidityActiveBlock" variable

```

1180  ✓  if (
1181      !tradingEnabled &&
1182      block.number < liquidityActiveBlock + 3 && // 3 blocks against the snipers/bots
1183      from! != owner() &&
1184      from! != address(uniswapV2Router)
1185  ✓  ) {
1186      _tokenTransfer(from!, marketingWallet, amount!, false);
1187      return;
1188  }
1189

```

2. Front Running Attack Surface

Code Line: 1384

Severity: Medium

Method: Swaps always tolerate a slippage loss up to 100% due to the setting of the minAmountOut parameter of IUniswapV2Router02.swapExactTokensForETHSupportingFeeOnTransferTokens function to 0

```

1373     function swapTokensForEth(uint256 tokenAmount!) private {
1374         // generate the uniswap pair path of token -> weth
1375         address[] memory path = new address[](2);
1376         path[0] = address(this);
1377         path[1] = uniswapV2Router.WETH();
1378
1379         _approve(address(this), address(uniswapV2Router), tokenAmount!);
1380
1381         // make the swap
1382         uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
1383             tokenAmount!,
1384             0, // accept any amount of ETH
1385             path,
1386             address(this),
1387             block.timestamp
1388         );
1389     }

```

Access Control and Privileges

Speakeasy Contract

Role	Methods
Owner	<p>The contract uses a single owner access control system for setting contract specific parameters.</p> <ul style="list-style-type: none"> - Exclude Accounts from fee - Set Fees (Max Fee 23%) - Ban accounts from transferring tokens before trading enable

Notes

The identified roles do not present any security-related risk at the time this audit was conducted.

Conclusion

The **Speakeasy** Smart contracts do not contain any high severity security issues!

Audit Score

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KYC WITH
hedgepay

SECURE . ACCESSIBLE . UNIQUE

The Owner of Speakeasy Has Passed All the KYC Verifications and Procedures

13:03 Feb 24: ID Verification 1 attempt – Passed ✓

13:28 Feb 24: KYC video 1 attempt – Approved ✓

13:38 Feb 24: Owner's contract – Verified ✓

15:12 Feb 24: Video Call verification – Passed ✓

KYC PIC: Ed id:05231987

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. To get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us based on what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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