



Candy P2E

Smart Contract Audit Report

TABLE OF CONTENTS

[Audited Details](#)

- Audited Project
- Blockchain
- Addresses
- Project Website
- Codebase

[Summary](#)

- Contract Summary
- Audit Findings Summary
- Vulnerabilities Summary

[Conclusion](#)

[Audit Results](#)

[Smart Contract Analysis](#)

- Detected Vulnerabilities

[Disclaimer](#)

[About Us](#)

AUDITED DETAILS

Audited Project

| Project name | Token ticker | Blockchain |
|--------------|--------------|------------|
| Candy P2E | CAD | BSC |

Addresses

| | |
|---------------------------|--|
| Contract address | 0x4F59bb93b680d70EF750327c3A1193fa69eb6d54 |
| Contract deployer address | 0x9dACf80d90e92e88d553CDA00A7a53821307E87C |

Project Website

| |
|---|
| https://candyp2e.com/ |
|---|

Codebase

| |
|---|
| https://bscscan.com/address/0x4F59bb93b680d70EF750327c3A1193fa69eb6d54#code |
|---|

SUMMARY

Candy P2E is a combination of traditional gaming and Blockchain technology to create a Play-to-Earn mechanism. They aim for real entertainment and rewards every time you play, making your entertainment no longer a waste of time.

Contract Summary

Documentation Quality

The amount of documentation in this project is GOOD.

- The technical description is provided.

Code Quality

The Overall quality of the code is GOOD

- The official Solidity style guide is followed.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-101 | Arithmetic operation Issues discovered on lines 194, 216, 241, 270, 271, 400, 431, 462, 472, 483, 511, 520, 521, 526, 527, 535, 542, 546, 566, 567, 568, 569, 575, 576, 577, 584, 633, 659.
- SWC-103 | A floating pragma is set on lines 7. The current pragma Solidity directive is `^0.8.17`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.
- SWC-110 | Out of bounds array access on lines 595, 596. The index access expression can cause an exception in case an invalid array index value is used.
- SWC-120 | Potential use of "block.number" as a source of randomness on lines 511, 640.

CONCLUSION

CONCLUSION

We have audited the Candy P2E Coin which has released on January 2023 to discover issues and identifying potential security vulnerabilities in Candy P2E Project. This process is used to find bugs, technical issues, and security loopholes that finds some common issues in the code.

The security audit report produced satisfactory results with a low risk issue on contract project.

The most common issue found in writing code on contracts that do not pose a big risk, writing on contracts is close to the standard of writing contracts in general. Some of the low issues that were found were assert violation, a floating pragma is setn and weak sources of the randomness contained in the contract

AUDIT RESULT

| Article | Category | Description | Result |
|-----------------------------------|--------------------|---|-------------|
| Default Visibility | SWC-100 SWC-108 | Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously. | PASS |
| Integer Overflow and Underflow | SWC-101 | If unchecked math is used, all math operations should be safe from overflows and underflows. | ISSUE FOUND |
| Outdated Compiler Version | SWC-102 | It is recommended to use a recent version of the Solidity compiler. | PASS |
| Floating Pragma | SWC-103 | Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly. | ISSUE FOUND |
| Unchecked Call Return Value | SWC-104 | The return value of a message call should be checked. | PASS |
| SELFDESTRUCT Instruction | SWC-106 | The contract should not be self-destructible while it has funds belonging to users. | PASS |
| Check-Effect Interaction | SWC-107 | Check-Effect-Interaction pattern should be followed if the code performs ANY external call. | PASS |
| Assert Violation | SWC-110 | Properly functioning code should never reach a failing assert statement. | ISSUE FOUND |
| Deprecated Solidity Functions | SWC-111 | Deprecated built-in functions should never be used. | PASS |
| Delegate call to Untrusted Caller | SWC-112 | Delegatecalls should only be allowed to trusted addresses. | PASS |
| DoS (Denial of Service) | SWC-113 SWC-128 | Execution of the code should never be blocked by a specific contract state unless required. | PASS |
| Race Conditions | SWC-114 | Race Conditions and Transactions Order Dependency should not be possible. | PASS |

| | | | |
|----------------------------------|-------------------------------|---|-------------|
| Authorization through tx.origin | SWC-115 | tx.origin should not be used for authorization. | PASS |
| Block values as a proxy for time | SWC-116 | Block numbers should not be used for time calculations. | PASS |
| Signature Unique Id | SWC-117 SWC-121 SWC-122 | Signed messages should always have a unique id. A transaction hash should not be used as a unique id. | PASS |
| Shadowing State Variable | SWC-119 | State variables should not be shadowed. | PASS |
| Weak Sources of Randomness | SWC-120 | Random values should never be generated from Chain Attributes or be predictable. | ISSUE FOUND |
| Incorrect Inheritance Order | SWC-125 | When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/. | PASS |

SMART CONTRACT ANALYSIS

| | |
|------------------|--|
| Started | Sun Jan 22 2023 22:03:42 GMT+0000 (Coordinated Universal Time) |
| Finished | Mon Jan 23 2023 05:06:33 GMT+0000 (Coordinated Universal Time) |
| Mode | Quick |
| Main Source File | Candy2pe.Sol |

Detected Issues

| ID | Title | Severity | Status |
|---------|--------------------------------------|----------|--------------|
| SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED | low | acknowledged |

| | | | |
|----------------|--|------------|--------------|
| SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED | low | acknowledged |
| SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED | low | acknowledged |
| SWC-103 | A FLOATING PRAGMA IS SET. | low | acknowledged |
| SWC-110 | OUT OF BOUNDS ARRAY ACCESS | low | acknowledged |
| SWC-110 | OUT OF BOUNDS ARRAY ACCESS | low | acknowledged |
| SWC-110 | OUT OF BOUNDS ARRAY ACCESS | low | acknowledged |
| SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS. | low | acknowledged |
| SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS. | low | acknowledged |

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 194

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
193     require(currentAllowance >= amount, "BEP20: transfer amount exceeds allowance");
194     _approve(sender, _msgSender(), currentAllowance - amount);
195     return true;
196     |
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 216

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
215  {  
216  _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);  
217  return true;  
218  }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 241

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
240     require(currentAllowance >= subtractedValue, "BEP20: decreased allowance below
zero");
241     _approve(_msgSender(), spender, currentAllowance - subtractedValue);
242     return true;
243     |
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 270

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
269     require(senderBalance >= amount, "BEP20: transfer amount exceeds balance");
270     _balances[sender] = senderBalance - amount;
271     _balances[recipient] += amount;
272     |
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 271

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
270  _balances[sender] = senderBalance - amount;  
271  _balances[recipient] += amount;  
272  emit Transfer(sender, recipient, amount);  
273  |
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 400

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
399  bool public tradingEnabled = false;
400  uint256 public tokenLiquidityThreshold = 1e3 * 10**18;
401  uint256 public genesis_block;
402  |
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 431

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
430     constructor() BEP20("Candy P2E", "CAD") {  
431         _tokengeneration(msg.sender, 1e6 * 10**decimals());  
432         IRouter _router = IRouter(0x10ED43C718714eb63d5aA57B78B54704E256024E);  
433         |
```


SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 462

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
461     require(currentAllowance >= amount, "BEP20: transfer amount exceeds allowance");
462     _approve(sender, _msgSender(), currentAllowance - amount);
463     return true;
464     |
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 472

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
471  {  
472  _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);  
473  return true;  
474  }
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 483

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
482     require(currentAllowance >= subtractedValue, "BEP20: decreased allowance below
zero");
483     _approve(_msgSender(), spender, currentAllowance - subtractedValue);
484     return true;
485     |
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 511

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
510     !exemptFee[recipient] &&  
511     block.number < genesis_block + deadline;  
512     //set fee to zero if fees in contract are handled or exempted  
513     |
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 520

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
519     feeswap =  
520     sellTaxes.liquidity +  
521     sellTaxes.marketing;  
522     feesum = feeswap;
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 526

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
525     feeswap =  
526     taxes.liquidity +  
527     taxes.marketing;  
528     feesum = feeswap;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 535

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
534     }  
535     fee = (amount * feesum) / 100;  
536     //send fees if threshold has been reached  
537     |
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 542

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
541 //rest to recipient
542 super._transfer(sender, recipient, amount - fee);
543 if (fee > 0) {
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 546

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
545   if (feeswap > 0) {  
546       uint256 feeAmount = (amount * feeswap) / 100;  
547       super._transfer(sender, address(this), feeAmount);
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 546

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
545   if (feeswap > 0) {  
546       uint256 feeAmount = (amount * feeswap) / 100;  
547       super._transfer(sender, address(this), feeAmount);  
548   }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 566

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
565 // Split the contract balance into halves
566 uint256 denominator = feeswap * 2;
567 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /
568 denominator;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 566

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
565 uint256 denominator = feeswap * 2;  
566 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /  
567 denominator;  
568 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 569

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
568     denominator;  
569     uint256 toSwap = contractBalance - tokensToAddLiquidityWith;  
570     uint256 initialBalance = address(this).balance;  
571     |
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 575

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
574  swapTokensForETH(toSwap);  
575  uint256 deltaBalance = address(this).balance - initialBalance;  
576  uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);  
577  uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 576

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
575     uint256 deltaBalance = address(this).balance - initialBalance;
576     uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
577     uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
578     |
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 577

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
576 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
577 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
578 if (ethToAddLiquidityWith > 0) {
579 |
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 584

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
583     }  
584     uint256 marketingAmt = unitBalance * 2 * swapTaxes.marketing;  
585     if (marketingAmt > 0) {  
586         payable(marketingWallet).sendValue(marketingAmt);
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 633

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
632 //update the treshhold
633 require(new_amount <= 1e4, "Swap threshold amount should be lower or equal to 1% of
tokens");
634 tokenLiquidityThreshold = new_amount * 10**decimals();
635 }
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 659

low SEVERITY

This plugin produces issues to support false positive discovery within Mythril.

Source File

- candy2pe.sol

Locations

```
658 function bulkExemptFee(address[] memory accounts, bool state) external onlyOwner {  
659     for (uint256 i = 0; i < accounts.length; i++) {  
660         exemptFee[accounts[i]] = state;  
661     }
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

low SEVERITY

The current pragma Solidity directive is `""^0.8.17""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- candy2pe.sol

Locations

```
6 //SPDX-License-Identifier: UNLICENSED
7 pragma solidity ^0.8.17;
8 abstract contract Context {
9 |
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 595

low SEVERITY

The current pragma Solidity directive is `""^0.8.17`". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- candy2pe.sol

Locations

```
594 address[] memory path = new address[] (2);  
595 path[0] = address(this);  
596 path[1] = router.WETH();  
597 |
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 596

low SEVERITY

The current pragma Solidity directive is `""^0.8.17`". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- candy2pe.sol

Locations

```
595 path[0] = address(this);
596 path[1] = router.WETH();
597 _approve(address(this), address(router), tokenAmount);
598 |
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 660

low SEVERITY

The current pragma Solidity directive is `""^0.8.17`". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- candy2pe.sol

Locations

```
659   for (uint256 i = 0; i < accounts.length; i++) {  
660       exemptFee[accounts[i]] = state;  
661   }  
662   }
```

SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 660

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- candy2pe.sol

Locations

```
659     !exemptFee[recipient] &&  
660     block.number < genesis_block + deadline;  
661     //set fee to zero if fees in contract are handled or exempted  
662     |
```


SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 640

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source File

- candy2pe.sol

Locations

```
639     providingLiquidity = true;
640     genesis_block = block.number;
641 }
642 |
```

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of 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. In order 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 on the basis of 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 below disclaimer below – please make sure to read it in full.

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