



Pancake GAMES Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Pancake GAMES	GCAKE	Binance Smart Chain

Addresses

Contract address	0x61d5822dd7b3ed495108733e6550d4529480c8f6
Contract deployer address	0x6Dd6cDD13D149968c5aD679ec6037f3BFfDdA26f

Project Website

https://pancakegames.finance/

Codebase

https://bscscan.com/address/0x61d5822dd7b3ed495108733e6550d4529480c8f6#code

SUMMARY

Pancake Games is a new NFT gaming platform community token that connects various NFT projects and PancakeGames holders with a variety of content.

Contract Summary

Documentation Quality

Pancake GAMES provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also don't have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by Pancake GAMES with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 365, 402, 423, 454, 455, 474, 475, 497 and 498.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 27, 54, 124, 228, 564, 584 and 618.

CONCLUSION

We have audited the Pancake GAMES project released on October 2021 to discover issues and identify potential security vulnerabilities in Pancake GAMES Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the Pancake GAMES smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some floating pragma is set. The current pragma Solidity directive is `""^0.8.0""`. Specifying a fixed compiler version is recommended 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.

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
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	PASS
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	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
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	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.	PASS
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	PASS
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
Insufficient Gas Griefing	SWC-126	Insufficient gas grieving attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS

SMART CONTRACT ANALYSIS

Started	Saturday Oct 09 2021 08:26:55 GMT+0000 (Coordinated Universal Time)
Finished	Sunday Oct 10 2021 00:52:01 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	SimpleBEP20.sol

Detected Issues

[illegible]

SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 365

low SEVERITY

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

Source File

- SimpleBEP20.sol

Locations

```
364     require(currentAllowance >= amount, "BEP20: transfer amount exceeds allowance");
365     _approve(sender, _msgSender(), currentAllowance - amount);
366
367     return true;
368 }
369
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 402

low SEVERITY

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

Source File

- SimpleBEP20.sol

Locations

```
401  function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
402  _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
403  return true;
404  }
405
406
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 423

low SEVERITY

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

Source File

- SimpleBEP20.sol

Locations

```
422     require(currentAllowance >= subtractedValue, "BEP20: decreased allowance below
zero");
423     _approve(_msgSender(), spender, currentAllowance - subtractedValue);
424
425     return true;
426 }
427
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 454

low SEVERITY

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

Source File

- SimpleBEP20.sol

Locations

```
453     require(senderBalance >= amount, "BEP20: transfer amount exceeds balance");
454     _balances[sender] = senderBalance - amount;
455     _balances[recipient] += amount;
456
457     emit Transfer(sender, recipient, amount);
458
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 455

low SEVERITY

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

Source File

- SimpleBEP20.sol

Locations

```
454  _balances[sender] = senderBalance - amount;  
455  _balances[recipient] += amount;  
456  
457  emit Transfer(sender, recipient, amount);  
458  }  
459
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 474

low SEVERITY

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

Source File

- SimpleBEP20.sol

Locations

```
473
474     _totalSupply += amount;
475     _balances[account] += amount;
476     emit Transfer(address(0), account, amount);
477 }
478
```


SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 475

low SEVERITY

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

Source File

- SimpleBEP20.sol

Locations

```
474     _totalSupply += amount;  
475     _balances[account] += amount;  
476     emit Transfer(address(0), account, amount);  
477 }  
478  
479
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 497

low SEVERITY

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

Source File

- SimpleBEP20.sol

Locations

```
496     require(accountBalance >= amount, "BEP20: burn amount exceeds balance");
497     _balances[account] = accountBalance - amount;
498     _totalSupply -= amount;
499
500     emit Transfer(account, address(0), amount);
501
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 498

low SEVERITY

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

Source File

- SimpleBEP20.sol

Locations

```
497  _balances[account] = accountBalance - amount;  
498  _totalSupply -= amount;  
499  
500  emit Transfer(account, address(0), amount);  
501  }  
502
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 27

low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- SimpleBEP20.sol

Locations

```
26
27  pragma solidity ^0.8.0;
28
29  /*
30   * @dev Provides information about the current execution context, including the
31
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 54

low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- SimpleBEP20.sol

Locations

```
53
54  pragma solidity ^0.8.0;
55
56  /**
57   * @dev Contract module which provides a basic access control mechanism, where
58
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 124

low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- SimpleBEP20.sol

Locations

```
123
124  pragma solidity ^0.8.0;
125
126  /**
127   * @dev Interface of the BEP standard.
128
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 228

low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- SimpleBEP20.sol

Locations

```
227
228  pragma solidity ^0.8.0;
229
230
231
232
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 564

low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- SimpleBEP20.sol

Locations

```
563
564  pragma solidity ^0.8.0;
565
566  interface IPayable {
567      function pay(string memory serviceName) external payable;
568
```


SWC-103 | A FLOATING PRAGMA IS SET.

LINE 584

low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- SimpleBEP20.sol

Locations

```
583
584  pragma solidity ^0.8.0;
585
586  /**
587   * @title GeneratorCopyright
588
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 618

low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- SimpleBEP20.sol

Locations

```
617
618  pragma solidity ^0.8.0;
619
620
621
622
```

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