Pige Inu

Smart Contract Audit Report

SYSFIXED

28 Sep 2022

TABLE OF CONTENTS

AUDITED DETAILS

▎Audited Project

Project name	Token ticker	Blockchain
Pige Inu	PINU	Binance Smart Chain

▎Addresses

Contract address	0x1fdb2c3851d067502ce2122be80a41ea212949e2
Contract deployer address	0xA4b0588Df297921eF93fDa96979Bf0Db97E2F0df

▎Project Website

https://pigeinu.io/

▎Codebase

https://bscscan.com/address/0x1fdb2c3851d067502ce2122be80a41ea212949e2#code

SUMMARY

Pige Inu is a community-driven meme cryptocurrency on Binance Smart Chain. Our contract is fully renounced, and we have low taxes on buys and sells.

▌Contract Summary

Documentation Quality

Pige Inu provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by Pige Inu 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 25, 29, 33, 37, 43, 50, 363, 363, 363, 378, 378, 381, 381, 505, 538, 554, 554, 555, 556, 557, 559, 559, 560, 560, 561, 561, 564, 564, 565, 567, 567, 567, 567, 568, 568, 570, 570, 570, 570, 571, 571, 574, 574, 575, 575, 616, 616, 627, 628, 632, 636, 636, 637, 639, 640, 641, 645, 649, 649, 650, 652, 653, 654 and 658.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 587 and 588.

CONCLUSION

We have audited the Pige Inu project released on September 2021 to discover issues and identify potential security vulnerabilities in Pige Inu 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 Pige Inu 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 arithmetic operation issues and out-of-bounds array access. The index access expression can cause an exception in case of an invalid array index value.

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.	PASS
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.	ISSUE FOUND
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 griefing 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	Tuesday Sep 27 2022 11:41:45 GMT+0000 (Coordinated Universal Time)
Finished	Wednesday Sep 28 2022 06:49:48 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	PIGEINU.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-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-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-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 25

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

Source File
- PIGEINU.sol

Locations

```
24    function add(uint256 a, uint256 b) internal pure returns (uint256) {
25    return a + b;
26    }
27
28    function sub(uint256 a, uint256 b) internal pure returns (uint256) {
29
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 29

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
28    function sub(uint256 a, uint256 b) internal pure returns (uint256) {
29    return a - b;
30    }
31
32    function mul(uint256 a, uint256 b) internal pure returns (uint256) {
33
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 33

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
32    function mul(uint256 a, uint256 b) internal pure returns (uint256) {
33    return a * b;
34    }
35
36    function div(uint256 a, uint256 b) internal pure returns (uint256) {
37
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 37

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
36    function div(uint256 a, uint256 b) internal pure returns (uint256) {
37    return a / b;
38    }
39
40    function sub(uint256 a, uint256 b, string memory errorMessage) internal pure returns
(uint256) {
41
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 43

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

Source File
- PIGEINU.sol

Locations

```
42    require(b <= a, errorMessage);
43    return a - b;
44    }
45    }
46
47
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 50

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
49    require(b > 0, errorMessage);
50    return a / b;
51    }
52    }
53
54
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 363

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
362   uint8 private constant _decimals = 9;
363   uint256 private _tTotal = 10**15 * 10**_decimals;
364   string private constant _name = "Pige Inu";
365   string private constant _symbol = unicode"PINU";
366
367
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 363

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

Source File
- PIGEINU.sol

Locations

```
362    uint8 private constant _decimals = 9;
363    uint256 private _tTotal = 10**15 * 10**_decimals;
364    string private constant _name = "Pige Inu";
365    string private constant _symbol = unicode"PINU";
366
367
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED
LINE 363

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
362    uint8 private constant _decimals = 9;
363    uint256 private _tTotal = 10**15 * 10**_decimals;
364    string private constant _name = "Pige Inu";
365    string private constant _symbol = unicode"PINU";
366
367
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 378

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

Source File
- PIGEINU.sol

Locations

```
377
378   uint256 public _maxWalletToken = _tTotal * 100 / 100;
379   uint256 private _previousMaxWalletToken = _maxWalletToken;
380
381   uint256 public _maxTxAmount = _tTotal * 100 / 100;
382
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 378

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
377
378   uint256 public _maxWalletToken = _tTotal * 100 / 100;
379   uint256 private _previousMaxWalletToken = _maxWalletToken;
380
381   uint256 public _maxTxAmount = _tTotal * 100 / 100;
382
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 381

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

Source File
- PIGEINU.sol

Locations

```
380
381   uint256 public _maxTxAmount = _tTotal * 100 / 100;
382   uint256 private _previousMaxTxAmount = _maxTxAmount;
383
384
385
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 381

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
380
381    uint256 public _maxTxAmount = _tTotal * 100 / 100;
382    uint256 private _previousMaxTxAmount = _maxTxAmount;
383
384
385
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 505

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
504    uint256 heldTokens = balanceOf(to);
505    require((heldTokens + amount) <= _maxWalletToken,"Over wallet limit.");}
506
507    if (from != owner())
508    require(amount <= _maxTxAmount, "Over transaction limit.");
509
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED
LINE 538

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
537
538    txCount++;
539
540    }
541
542
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 554

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
553
554    uint256 tokens_to_Burn = contractTokenBalance * Percent_Burn / 100;
555    _tTotal = _tTotal - tokens_to_Burn;
556    _tOwned[Wallet_Burn] = _tOwned[Wallet_Burn] + tokens_to_Burn;
557    _tOwned[address(this)] = _tOwned[address(this)] - tokens_to_Burn;
558
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 554

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
553
554    uint256 tokens_to_Burn = contractTokenBalance * Percent_Burn / 100;
555    _tTotal = _tTotal - tokens_to_Burn;
556    _tOwned[Wallet_Burn] = _tOwned[Wallet_Burn] + tokens_to_Burn;
557    _tOwned[address(this)] = _tOwned[address(this)] - tokens_to_Burn;
558
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 555

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
554    uint256 tokens_to_Burn = contractTokenBalance * Percent_Burn / 100;
555    _tTotal = _tTotal - tokens_to_Burn;
556    _tOwned[Wallet_Burn] = _tOwned[Wallet_Burn] + tokens_to_Burn;
557    _tOwned[address(this)] = _tOwned[address(this)] - tokens_to_Burn;
558
559
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 556

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

Source File
- PIGEINU.sol

Locations

```
555    _tTotal = _tTotal - tokens_to_Burn;
556    _tOwned[Wallet_Burn] = _tOwned[Wallet_Burn] + tokens_to_Burn;
557    _tOwned[address(this)] = _tOwned[address(this)] - tokens_to_Burn;
558
559    uint256 tokens_to_M = contractTokenBalance * Percent_Marketing / 100;
560
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 557

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

Source File
- PIGEINU.sol

Locations

```
556   _tOwned[Wallet_Burn] = _tOwned[Wallet_Burn] + tokens_to_Burn;
557   _tOwned[address(this)] = _tOwned[address(this)] - tokens_to_Burn;
558
559   uint256 tokens_to_M = contractTokenBalance * Percent_Marketing / 100;
560   uint256 tokens_to_D = contractTokenBalance * Percent_Dev / 100;
561
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 559

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
558
559    uint256 tokens_to_M = contractTokenBalance * Percent_Marketing / 100;
560    uint256 tokens_to_D = contractTokenBalance * Percent_Dev / 100;
561    uint256 tokens_to_LP_Half = contractTokenBalance * Percent_AutoLP / 200;
562
563
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 559

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

Source File
- PIGEINU.sol

Locations

```
558
559    uint256 tokens_to_M = contractTokenBalance * Percent_Marketing / 100;
560    uint256 tokens_to_D = contractTokenBalance * Percent_Dev / 100;
561    uint256 tokens_to_LP_Half = contractTokenBalance * Percent_AutoLP / 200;
562
563
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 560

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
559   uint256 tokens_to_M = contractTokenBalance * Percent_Marketing / 100;
560   uint256 tokens_to_D = contractTokenBalance * Percent_Dev / 100;
561   uint256 tokens_to_LP_Half = contractTokenBalance * Percent_AutoLP / 200;
562
563   uint256 balanceBeforeSwap = address(this).balance;
564
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 560

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
559    uint256 tokens_to_M = contractTokenBalance * Percent_Marketing / 100;
560    uint256 tokens_to_D = contractTokenBalance * Percent_Dev / 100;
561    uint256 tokens_to_LP_Half = contractTokenBalance * Percent_AutoLP / 200;
562
563    uint256 balanceBeforeSwap = address(this).balance;
564
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 561

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

Source File
- PIGEINU.sol

Locations

```
560   uint256 tokens_to_D = contractTokenBalance * Percent_Dev / 100;
561   uint256 tokens_to_LP_Half = contractTokenBalance * Percent_AutoLP / 200;
562
563   uint256 balanceBeforeSwap = address(this).balance;
564   swapTokensForBNB(tokens_to_LP_Half + tokens_to_M + tokens_to_D);
565
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 561

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
560    uint256 tokens_to_D = contractTokenBalance * Percent_Dev / 100;
561    uint256 tokens_to_LP_Half = contractTokenBalance * Percent_AutoLP / 200;
562
563    uint256 balanceBeforeSwap = address(this).balance;
564    swapTokensForBNB(tokens_to_LP_Half + tokens_to_M + tokens_to_D);
565
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 564

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
563    uint256 balanceBeforeSwap = address(this).balance;
564    swapTokensForBNB(tokens_to_LP_Half + tokens_to_M + tokens_to_D);
565    uint256 BNB_Total = address(this).balance - balanceBeforeSwap;
566
567    uint256 split_M = Percent_Marketing * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
568
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 564

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
563   uint256 balanceBeforeSwap = address(this).balance;
564   swapTokensForBNB(tokens_to_LP_Half + tokens_to_M + tokens_to_D);
565   uint256 BNB_Total = address(this).balance - balanceBeforeSwap;
566
567   uint256 split_M = Percent_Marketing * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
568
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 565

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
564   swapTokensForBNB(tokens_to_LP_Half + tokens_to_M + tokens_to_D);
565   uint256 BNB_Total = address(this).balance - balanceBeforeSwap;
566
567   uint256 split_M = Percent_Marketing * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
568   uint256 BNB_M = BNB_Total * split_M / 100;
569
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 567

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
566
567    uint256 split_M = Percent_Marketing * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
568    uint256 BNB_M = BNB_Total * split_M / 100;
569
570    uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 567

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

Source File
- PIGEINU.sol

Locations

```
566
567   uint256 split_M = Percent_Marketing * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
568   uint256 BNB_M = BNB_Total * split_M / 100;
569
570   uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 567

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
566
567   uint256 split_M = Percent_Marketing * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
568   uint256 BNB_M = BNB_Total * split_M / 100;
569
570   uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 567

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
566
567   uint256 split_M = Percent_Marketing * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
568   uint256 BNB_M = BNB_Total * split_M / 100;
569
570   uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 568

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

Source File
- PIGEINU.sol

Locations

```
567    uint256 split_M = Percent_Marketing * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
568    uint256 BNB_M = BNB_Total * split_M / 100;
569
570    uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571    uint256 BNB_D = BNB_Total * split_D / 100;
572
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 568

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

Source File
- PIGEINU.sol

Locations

```
567   uint256 split_M = Percent_Marketing * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
568   uint256 BNB_M = BNB_Total * split_M / 100;
569
570   uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571   uint256 BNB_D = BNB_Total * split_D / 100;
572
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 570

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
569
570   uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571   uint256 BNB_D = BNB_Total * split_D / 100;
572
573
574
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 570

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
569
570   uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571   uint256 BNB_D = BNB_Total * split_D / 100;
572
573
574
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 570

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
569
570   uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571   uint256 BNB_D = BNB_Total * split_D / 100;
572
573
574
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 570

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
569
570   uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571   uint256 BNB_D = BNB_Total * split_D / 100;
572
573
574
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 571

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

Source File
- PIGEINU.sol

Locations

```
570   uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571   uint256 BNB_D = BNB_Total * split_D / 100;
572
573
574   addLiquidity(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D));
575
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 571

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
570    uint256 split_D = Percent_Dev * 100 / (Percent_AutoLP + Percent_Marketing +
Percent_Dev);
571    uint256 BNB_D = BNB_Total * split_D / 100;
572
573
574    addLiquidity(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D));
575
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 574

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
573
574   addLiquidity(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D));
575   emit SwapAndLiquify(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D),
tokens_to_LP_Half);
576
577   sendToWallet(Wallet_Marketing, BNB_M);
578
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 574

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
573
574    addLiquidity(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D));
575    emit SwapAndLiquify(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D),
tokens_to_LP_Half);
576
577    sendToWallet(Wallet_Marketing, BNB_M);
578
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 575

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
574   addLiquidity(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D));
575   emit SwapAndLiquify(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D),
tokens_to_LP_Half);
576
577   sendToWallet(Wallet_Marketing, BNB_M);
578
579
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 575

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
574   addLiquidity(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D));
575   emit SwapAndLiquify(tokens_to_LP_Half, (BNB_Total - BNB_M - BNB_D),
tokens_to_LP_Half);
576
577   sendToWallet(Wallet_Marketing, BNB_M);
578
579
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 616

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
615    uint256 totalRandom = IERC20(random_Token_Address).balanceOf(address(this));
616    uint256 removeRandom = totalRandom*percent_of_Tokens/100;
617    _sent = IERC20(random_Token_Address).transfer(Wallet_Dev, removeRandom);
618
619    }
620
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 616

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

Source File
- PIGEINU.sol

Locations

```
615   uint256 totalRandom = IERC20(random_Token_Address).balanceOf(address(this));
616   uint256 removeRandom = totalRandom*percent_of_Tokens/100;
617   _sent = IERC20(random_Token_Address).transfer(Wallet_Dev, removeRandom);
618
619   }
620
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 627

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
626
627    _tOwned[sender] = _tOwned[sender]-tAmount;
628    _tOwned[recipient] = _tOwned[recipient]+tAmount;
629    emit Transfer(sender, recipient, tAmount);
630
631
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 628

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
627   _tOwned[sender] = _tOwned[sender]-tAmount;
628   _tOwned[recipient] = _tOwned[recipient]+tAmount;
629   emit Transfer(sender, recipient, tAmount);
630
631   if(recipient == Wallet_Burn)
632
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 632

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
631    if(recipient == Wallet_Burn)
632    _tTotal = _tTotal-tAmount;
633
634    } else if (isBuy){
635
636
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 636

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

Source File
- PIGEINU.sol

Locations

```
635
636    uint256 buyFEE = tAmount*_Tax_On_Buy/100;
637    uint256 tTransferAmount = tAmount-buyFEE;
638
639    _tOwned[sender] = _tOwned[sender]-tAmount;
640
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 636

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
635
636    uint256 buyFEE = tAmount*_Tax_On_Buy/100;
637    uint256 tTransferAmount = tAmount-buyFEE;
638
639    _tOwned[sender] = _tOwned[sender]-tAmount;
640
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 637

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
636    uint256 buyFEE = tAmount*_Tax_On_Buy/100;
637    uint256 tTransferAmount = tAmount-buyFEE;
638
639    _tOwned[sender] = _tOwned[sender]-tAmount;
640    _tOwned[recipient] = _tOwned[recipient]+tTransferAmount;
641
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 639

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
638
639   _tOwned[sender] = _tOwned[sender]-tAmount;
640   _tOwned[recipient] = _tOwned[recipient]+tTransferAmount;
641   _tOwned[address(this)] = _tOwned[address(this)]+buyFEE;
642   emit Transfer(sender, recipient, tTransferAmount);
643
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 640

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
639    _tOwned[sender] = _tOwned[sender]-tAmount;
640    _tOwned[recipient] = _tOwned[recipient]+tTransferAmount;
641    _tOwned[address(this)] = _tOwned[address(this)]+buyFEE;
642    emit Transfer(sender, recipient, tTransferAmount);
643
644
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 641

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
640    _tOwned[recipient] = _tOwned[recipient]+tTransferAmount;
641    _tOwned[address(this)] = _tOwned[address(this)]+buyFEE;
642    emit Transfer(sender, recipient, tTransferAmount);
643
644    if(recipient == Wallet_Burn)
645
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 645

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

Source File
- PIGEINU.sol

Locations

```
644    if(recipient == Wallet_Burn)
645    _tTotal = _tTotal-tTransferAmount;
646
647    } else {
648
649
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED
LINE 649

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
648
649   uint256 sellFEE = tAmount*_Tax_On_Sell/100;
650   uint256 tTransferAmount = tAmount-sellFEE;
651
652   _tOwned[sender] = _tOwned[sender]-tAmount;
653
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED
LINE 649

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

Source File
- PIGEINU.sol

Locations

```
648
649    uint256 sellFEE = tAmount*_Tax_On_Sell/100;
650    uint256 tTransferAmount = tAmount-sellFEE;
651
652    _tOwned[sender] = _tOwned[sender]-tAmount;
653
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 650

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
649    uint256 sellFEE = tAmount*_Tax_On_Sell/100;
650    uint256 tTransferAmount = tAmount-sellFEE;
651
652    _tOwned[sender] = _tOwned[sender]-tAmount;
653    _tOwned[recipient] = _tOwned[recipient]+tTransferAmount;
654
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 652

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
651
652    _tOwned[sender] = _tOwned[sender]-tAmount;
653    _tOwned[recipient] = _tOwned[recipient]+tTransferAmount;
654    _tOwned[address(this)] = _tOwned[address(this)]+sellFEE;
655    emit Transfer(sender, recipient, tTransferAmount);
656
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 653

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
652    _tOwned[sender] = _tOwned[sender]-tAmount;
653    _tOwned[recipient] = _tOwned[recipient]+tTransferAmount;
654    _tOwned[address(this)] = _tOwned[address(this)]+sellFEE;
655    emit Transfer(sender, recipient, tTransferAmount);
656
657
```

SYSFIXED

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED
LINE 654

low SEVERITY

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

Source File

- PIGEINU.sol

Locations

```
653    _tOwned[recipient] = _tOwned[recipient]+tTransferAmount;
654    _tOwned[address(this)] = _tOwned[address(this)]+sellFEE;
655    emit Transfer(sender, recipient, tTransferAmount);
656
657    if(recipient == Wallet_Burn)
658
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED
LINE 658

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

Source File
- PIGEINU.sol

Locations

```
657   if(recipient == Wallet_Burn)
658   _tTotal = _tTotal-tTransferAmount;
659
660
661   }
662
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 587

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- PIGEINU.sol

Locations

```
586    address[] memory path = new address[](2);
587    path[0] = address(this);
588    path[1] = uniswapV2Router.WETH();
589    _approve(address(this), address(uniswapV2Router), tokenAmount);
590    uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
591
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS
LINE 588

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- PIGEINU.sol

Locations

```
587    path[0] = address(this);
588    path[1] = uniswapV2Router.WETH();
589    _approve(address(this), address(uniswapV2Router), tokenAmount);
590    uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
591    tokenAmount,
592
```

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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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