



Game Of Dragons Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Game Of Dragons	\$GOD	Ethereum

Addresses

Contract address	0x2F60EbD82577e95B8f792988D414032b46271c1c
Contract deployer address	0x50b43abe17C5466659e78Ce3902e24c4ddFA8316

Project Website

<https://www.game-of-dragons.com/>

Codebase

<https://etherscan.io/address/0x2F60EbD82577e95B8f792988D414032b46271c1c#code>

SUMMARY

Game of Dragons is a third person dragon fighting MMO where both investors and gamers come together! Fight EPIC battle against other players. Race with your dragons against other players. Breed and collect rare NFTs, Stake tokens for massive rewards, Play2Earn while you breath fire on your enemy's. Collect abilities and items. Trade on the NFT Marketplace. Play together with friends and collect achievements!

Contract Summary

Documentation Quality

Game Of Dragons 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 Game Of Dragons with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 470.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 137, 147, 155, 174, 176, 188, 189, 203, 205, 477, 477, 478, 478, 541, 541, 542, 656, 656, 699, 723, 762, 762, 762, 763, 763, 763, 765, 765, 766, 766, 768, 768, 783, 787, 787, 801, 801, 807, 807, 832, 832, 833, 845, 845, 846, 861, 885, 885, 912, 912, 912, 913, 913, 913, 916, 916, 917 and 917.
- 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 771 and 772.

CONCLUSION

We have audited the Game Of Dragons project released on August 2022 to discover issues and identify potential security vulnerabilities in Game Of Dragons 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 a satisfactory result with some low-risk issues.

The issues found in the Game Of Dragons 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, a state variable visibility is not set and out of bounds array access which the index access expression can cause an exception in case of the use 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.	ISSUE FOUND
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 <code>abi.encodePacked()</code> with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The <code>transfer()</code> and <code>send()</code> 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	Wednesday Aug 24 2022 14:58:33 GMT+0000 (Coordinated Universal Time)
Finished	Thursday Aug 25 2022 17:11:38 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	GameOfDragons.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-108	STATE VARIABLE VISIBILITY IS NOT SET.	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 137

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
136     unchecked {
137         _approve(sender, _msgSender(), currentAllowance - amount);
138     }
139 }
140
141
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 147

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
146  function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {
147  _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
148  return true;
149  }
150
151
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 155

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
154     unchecked {
155         _approve(_msgSender(), spender, currentAllowance - subtractedValue);
156     }
157
158     return true;
159
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 174

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
173     unchecked {  
174         _balances[sender] = senderBalance - amount;  
175     }  
176     _balances[recipient] += amount;  
177  
178
```


SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 176

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
175     }  
176     _balances[recipient] += amount;  
177  
178     emit Transfer(sender, recipient, amount);  
179  
180
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 188

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
187
188   _totalSupply += amount;
189   _balances[account] += amount;
190   emit Transfer(address(0), account, amount);
191
192
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 189

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
188  _totalSupply += amount;  
189  _balances[account] += amount;  
190  emit Transfer(address(0), account, amount);  
191  
192  _afterTokenTransfer(address(0), account, amount);  
193
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 203

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
202     unchecked {
203         _balances[account] = accountBalance - amount;
204     }
205     _totalSupply -= amount;
206
207
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 205

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
204     }
205     _totalSupply -= amount;
206
207     emit Transfer(account, address(0), amount);
208
209
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 477

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
476 bool    public  maxTransactionLimitEnabled = true;
477 uint256 public  maxTransactionAmountBuy  = 5 * (10**23); //0.5% of total supply
478 uint256 public  maxTransactionAmountSell = 5 * (10**23); //0.5% of total supply
479
480 event ExcludeFromFees(address indexed account, bool isExcluded);
481
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 477

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
476 bool    public  maxTransactionLimitEnabled = true;
477 uint256 public  maxTransactionAmountBuy  = 5 * (10**23); //0.5% of total supply
478 uint256 public  maxTransactionAmountSell = 5 * (10**23); //0.5% of total supply
479
480 event ExcludeFromFees(address indexed account, bool isExcluded);
481
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 478

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
477 uint256 public maxTransactionAmountBuy = 5 * (10**23); //0.5% of total supply
478 uint256 public maxTransactionAmountSell = 5 * (10**23); //0.5% of total supply
479
480 event ExcludeFromFees(address indexed account, bool isExcluded);
481 event FeesUpdated(uint256 buyFee, uint256 sellFee);
482
```


SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 478

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
477 uint256 public maxTransactionAmountBuy = 5 * (10**23); //0.5% of total supply
478 uint256 public maxTransactionAmountSell = 5 * (10**23); //0.5% of total supply
479
480 event ExcludeFromFees(address indexed account, bool isExcluded);
481 event FeesUpdated(uint256 buyFee, uint256 sellFee);
482
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 541

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
540
541  _mint(newOwner, 100000000 * (10**18));
542  swapTokensAtAmount = totalSupply() / 2000;
543
544  operator = _msgSender();
545
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 541

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
540
541  _mint(newOwner, 100000000 * (10**18));
542  swapTokensAtAmount = totalSupply() / 2000;
543
544  operator = _msgSender();
545
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 542

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
541  _mint(newOwner, 100000000 * (10**18));
542  swapTokensAtAmount = totalSupply() / 2000;
543
544  operator = _msgSender();
545  }
546
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 656

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
655  function updateFeeShares(uint256 _fee1FeeShare, uint256 _liquidityFeeShare, uint256
_fee2Share) external onlyOwner {
656  require(_fee1FeeShare + _liquidityFeeShare + _fee2Share == 100, "Fee shares must
add up to 100");
657  fee1Share = _fee1FeeShare;
658  liquidityShare = _liquidityFeeShare;
659  fee2Share = _fee2Share;
660
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 656

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
655  function updateFeeShares(uint256 _fee1FeeShare, uint256 _liquidityFeeShare, uint256
_fee2Share) external onlyOwner {
656  require(_fee1FeeShare + _liquidityFeeShare + _fee2Share == 100, "Fee shares must
add up to 100");
657  fee1Share = _fee1FeeShare;
658  liquidityShare = _liquidityFeeShare;
659  fee2Share = _fee2Share;
660
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 699

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
698     if (launchTime > 0) {
699         if(block.timestamp - launchTime <= timeAntiBot && from == uniswapV2Pair &&
antibotSystemEnable) {
700
701             _isBot[to] = true;
702         }
703     }
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 723

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
722     uint balance = balanceOf(to);
723     require(balance + amount <= maxWalletAmount(), "MaxWallet: Transfer amount exceeds
the maxWalletAmount");
724 }
725 }
726
727
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 762

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
761
762  uint256 liquidityTokens          = contractTokenBalance * liquidityShare / 100 / 2;
763  uint256 liquidityTokensForETH = contractTokenBalance * liquidityShare / 100 / 2;
764
765  uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;
766
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 762

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
761
762  uint256 liquidityTokens          = contractTokenBalance * liquidityShare / 100 / 2;
763  uint256 liquidityTokensForETH = contractTokenBalance * liquidityShare / 100 / 2;
764
765  uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;
766
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 762

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
761
762  uint256 liquidityTokens          = contractTokenBalance * liquidityShare / 100 / 2;
763  uint256 liquidityTokensForETH = contractTokenBalance * liquidityShare / 100 / 2;
764
765  uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;
766
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 763

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
762 uint256 liquidityTokens          = contractTokenBalance * liquidityShare / 100 / 2;  
763 uint256 liquidityTokensForETH = contractTokenBalance * liquidityShare / 100 / 2;  
764  
765 uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;  
766 uint256 fee2Tokens = contractTokenBalance * fee2Share / 100;  
767
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 763

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
762 uint256 liquidityTokens          = contractTokenBalance * liquidityShare / 100 / 2;  
763 uint256 liquidityTokensForETH = contractTokenBalance * liquidityShare / 100 / 2;  
764  
765 uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;  
766 uint256 fee2Tokens = contractTokenBalance * fee2Share / 100;  
767
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 763

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
762 uint256 liquidityTokens          = contractTokenBalance * liquidityShare / 100 / 2;  
763 uint256 liquidityTokensForETH = contractTokenBalance * liquidityShare / 100 / 2;  
764  
765 uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;  
766 uint256 fee2Tokens = contractTokenBalance * fee2Share / 100;  
767
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 765

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
764
765  uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;
766  uint256 fee2Tokens = contractTokenBalance * fee2Share / 100;
767
768  uint256 tokensToSwap = liquidityTokensForETH + fee1Tokens + fee2Tokens;
769
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 765

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
764
765  uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;
766  uint256 fee2Tokens = contractTokenBalance * fee2Share / 100;
767
768  uint256 tokensToSwap = liquidityTokensForETH + fee1Tokens + fee2Tokens;
769
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 766

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
765  uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;
766  uint256 fee2Tokens = contractTokenBalance * fee2Share / 100;
767
768  uint256 tokensToSwap = liquidityTokensForETH + fee1Tokens + fee2Tokens;
769
770
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 766

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
765     uint256 fee1Tokens = contractTokenBalance * fee1Share / 100;
766     uint256 fee2Tokens = contractTokenBalance * fee2Share / 100;
767
768     uint256 tokensToSwap = liquidityTokensForETH + fee1Tokens + fee2Tokens;
769
770
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 768

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
767
768  uint256 tokensToSwap = liquidityTokensForETH + fee1Tokens + fee2Tokens;
769
770  address[] memory path = new address[](2);
771  path[0] = address(this);
772
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 768

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
767
768  uint256 tokensToSwap = liquidityTokensForETH + fee1Tokens + fee2Tokens;
769
770  address[] memory path = new address[](2);
771  path[0] = address(this);
772
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 783

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
782
783  uint256 newBalance = address(this).balance - initialBalance;
784
785  if (liquidityShare > 0)
786  {
787
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 787

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
786  {  
787  uint256 liquidityETH = newBalance * liquidityTokensForETH / tokensToSwap;  
788  
789  uniswapV2Router.addLiquidityETH{value: liquidityETH}(  
790  address(this),  
791
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 787

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
786  {  
787  uint256 liquidityETH = newBalance * liquidityTokensForETH / tokensToSwap;  
788  
789  uniswapV2Router.addLiquidityETH{value: liquidityETH}(  
790  address(this),  
791
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 801

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
800  if(feelShare > 0) {  
801  uint256 feelETH = newBalance * feelTokens / tokensToSwap;  
802  sendETH(payable(feelWallet), feelETH);  
803  
804  }  
805
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 801

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
800  if(feelShare > 0) {
801  uint256 feelETH = newBalance * feelTokens / tokensToSwap;
802  sendETH(payable(feelWallet), feelETH);
803
804  }
805
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 807

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
806     if(fee2Share > 0) {
807         uint256 fee2ETH = newBalance * fee2Tokens / tokensToSwap;
808         sendETH(payable(fee2Wallet), fee2ETH);
809     }
810 }
811
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 807

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
806     if(fee2Share > 0) {  
807         uint256 fee2ETH = newBalance * fee2Tokens / tokensToSwap;  
808         sendETH(payable(fee2Wallet), fee2ETH);  
809     }  
810 }  
811
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 832

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
831  _totalFees = 900;
832  uint256 fees = amount * _totalFees / 1000;
833  amount = amount - fees;
834  super._transfer(from, botFeeWallet, fees);
835  }
836
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 832

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
831  _totalFees = 900;
832  uint256 fees = amount * _totalFees / 1000;
833  amount = amount - fees;
834  super._transfer(from, botFeeWallet, fees);
835  }
836
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 833

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
832  uint256 fees = amount * _totalFees / 1000;
833  amount = amount - fees;
834  super._transfer(from, botFeeWallet, fees);
835  }
836
837
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 845

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
844 }  
845 uint256 fees = amount * _totalFees / 1000;  
846 amount = amount - fees;  
847 super._transfer(from, address(this), fees);  
848 }  
849
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 845

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
844     }  
845     uint256 fees = amount * _totalFees / 1000;  
846     amount = amount - fees;  
847     super._transfer(from, address(this), fees);  
848     }  
849
```


SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 846

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
845     uint256 fees = amount * _totalFees / 1000;
846     amount = amount - fees;
847     super._transfer(from, address(this), fees);
848 }
849
850
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 861

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
860     function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
861         require(newAmount > totalSupply() / 100000, "SwapTokensAtAmount must be greater
than 0.001% of total supply");
862         swapTokensAtAmount = newAmount;
863     }
864
865
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 885

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
884 function maxWalletAmount() public view returns (uint256) {
885     return totalSupply() * maxWalletLimitRate / 1000;
886 }
887
888 function setMaxWalletRate_Denominator1000(uint256 _val) external onlyOwner {
889
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 885

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
884     function maxWalletAmount() public view returns (uint256) {
885         return totalSupply() * maxWalletLimitRate / 1000;
886     }
887
888     function setMaxWalletRate_Denominator1000(uint256 _val) external onlyOwner {
889
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 912

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
911     require(  
912         _maxTransactionAmountBuy >= totalSupply() / (10 ** decimals()) / 1000 &&  
913         _maxTransactionAmountSell >= totalSupply() / (10 ** decimals()) / 1000,  
914         "Max Transaction limis cannot be lower than 0.1% of total supply"  
915     );  
916
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 912

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
911     require(  
912         _maxTransactionAmountBuy >= totalSupply() / (10 ** decimals()) / 1000 &&  
913         _maxTransactionAmountSell >= totalSupply() / (10 ** decimals()) / 1000,  
914         "Max Transaction limis cannot be lower than 0.1% of total supply"  
915     );  
916
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 912

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
911     require(  
912         _maxTransactionAmountBuy >= totalSupply() / (10 ** decimals()) / 1000 &&  
913         _maxTransactionAmountSell >= totalSupply() / (10 ** decimals()) / 1000,  
914         "Max Transaction limis cannot be lower than 0.1% of total supply"  
915     );  
916
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 913

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
912  _maxTransactionAmountBuy  >= totalSupply() / (10 ** decimals()) / 1000 &&  
913  _maxTransactionAmountSell >= totalSupply() / (10 ** decimals()) / 1000,  
914  "Max Transaction limis cannot be lower than 0.1% of total supply"  
915  );  
916  maxTransactionAmountBuy  = _maxTransactionAmountBuy  * (10 ** decimals());  
917
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 913

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
912  _maxTransactionAmountBuy  >= totalSupply() / (10 ** decimals()) / 1000 &&  
913  _maxTransactionAmountSell >= totalSupply() / (10 ** decimals()) / 1000,  
914  "Max Transaction limis cannot be lower than 0.1% of total supply"  
915  );  
916  maxTransactionAmountBuy  = _maxTransactionAmountBuy  * (10 ** decimals());  
917
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 913

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
912  _maxTransactionAmountBuy >= totalSupply() / (10 ** decimals()) / 1000 &&  
913  _maxTransactionAmountSell >= totalSupply() / (10 ** decimals()) / 1000,  
914  "Max Transaction limis cannot be lower than 0.1% of total supply"  
915  );  
916  maxTransactionAmountBuy = _maxTransactionAmountBuy * (10 ** decimals());  
917
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 916

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
915 );  
916 maxTransactionAmountBuy = _maxTransactionAmountBuy * (10 ** decimals());  
917 maxTransactionAmountSell = _maxTransactionAmountSell * (10 ** decimals());  
918 emit MaxTransactionLimitRatesChanged(maxTransactionAmountBuy,  
maxTransactionAmountSell);  
919 }  
920
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 916

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
915 );  
916 maxTransactionAmountBuy = _maxTransactionAmountBuy * (10 ** decimals());  
917 maxTransactionAmountSell = _maxTransactionAmountSell * (10 ** decimals());  
918 emit MaxTransactionLimitRatesChanged(maxTransactionAmountBuy,  
maxTransactionAmountSell);  
919 }  
920
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 917

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
916     maxTransactionAmountBuy  = _maxTransactionAmountBuy  * (10 ** decimals());
917     maxTransactionAmountSell = _maxTransactionAmountSell * (10 ** decimals());
918     emit MaxTransactionLimitRatesChanged(maxTransactionAmountBuy,
maxTransactionAmountSell);
919 }
920
921
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 917

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
916     maxTransactionAmountBuy  = _maxTransactionAmountBuy  * (10 ** decimals());
917     maxTransactionAmountSell = _maxTransactionAmountSell * (10 ** decimals());
918     emit MaxTransactionLimitRatesChanged(maxTransactionAmountBuy,
maxTransactionAmountSell);
919 }
920
921
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 470

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "_isBot" is internal. Other possible visibility settings are public and private.

Source File

- GameOfDragons.sol

Locations

```
469
470 mapping(address => bool) _isBot;
471 uint256 public launchTime = 0;
472
473 bool public antibotSystemEnable = true;
474
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 771

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
770 address[] memory path = new address[](2);
771 path[0] = address(this);
772 path[1] = uniswapV2Router.WETH();
773
774 uint256 initialBalance = address(this).balance;
775
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 772

low SEVERITY

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

Source File

- GameOfDragons.sol

Locations

```
771 path[0] = address(this);  
772 path[1] = uniswapV2Router.WETH();  
773  
774 uint256 initialBalance = address(this).balance;  
775  
776
```

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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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