

Safemoon chain Smart Contract Audit Report



31 Jan 2023



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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
Safemoon chainn	SMC	Binance Smart Chain	

Addresses

Contract address	0xef4429cE2C87aa3fDFf5aD910f41dD557382Cc39
Contract deployer address	0xd3Be29D3CeeC37682119cf5B35aaC41543Cd423D

Project Website

https://www.safemoonchain.org/

Codebase

https://bscscan.com/address/0xef4429cE2C87aa3fDFf5aD910f41dD557382Cc39#code



SUMMARY

Did you Miss Dogechain? & Shibchain? Then you won't want to miss Safemoon Chain. Safemoon Chain will speed up Blockchain adoption by connecting systems like Internet Web data, Dapps and Web 5 softwares, IOT-internet of databases, Machine Learning and Artificial Intelligence.

Contract Summary

Documentation Quality

Safemoon chain 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 Safemoon chain 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 194, 216, 241, 270, 271, 400, 400, 431, 431, 462, 472, 483, 511, 520, 526, 535, 535, 542, 546, 546, 566, 567, 567, 569, 575, 576, 576, 577, 584, 584, 633, 633 and 659.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 7.
- 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 595, 596 and 660.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 511 and 640.





CONCLUSION

We have audited the Safemoon chain project released on January 2023 to discover issues and identify potential security vulnerabilities in Safemoon chain 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 Safemoon chain 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 floating pragma set, weak sources of randomness, 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. We recommend to Don't using any of those environment variables as sources of randomness and being aware that the use of these variables introduces a certain level of trust in miners.



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.	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.	ISSUE Found
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	Monday Jan 30 2023 19:17:48 GMT+0000 (Coordinated Universal Time)		
Finished	Tuesday Jan 31 2023 21:25:08 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	SafeMoonChain.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-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





LINE 194

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
193 require(currentAllowance >= amount, "BEP20: transfer amount exceeds allowance");
194 _approve(sender, _msgSender(), currentAllowance - amount);
195
196 return true;
197 }
198
```



LINE 216

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
215 {
216 _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
217 return true;
218 }
219 220
```



LINE 241

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
240 require(currentAllowance >= subtractedValue, "BEP20: decreased allowance below
zero");
241 _approve(_msgSender(), spender, currentAllowance - subtractedValue);
242
243 return true;
244 }
245
```



LINE 270

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
269 require(senderBalance >= amount, "BEP20: transfer amount exceeds balance");
270 _balances[sender] = senderBalance - amount;
271 _balances[recipient] += amount;
272
273 emit Transfer(sender, recipient, amount);
274
```



SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 271

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
270 _balances[sender] = senderBalance - amount;
271 _balances[recipient] += amount;
272
273 emit Transfer(sender, recipient, amount);
274 }
275
```



LINE 400

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
399
400 uint256 public tokenLiquidityThreshold = 21e3 * 10**18;
401
402 uint256 public genesis_block;
403 uint256 private deadline = 3;
404
```



LINE 400

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
399
400 uint256 public tokenLiquidityThreshold = 21e3 * 10**18;
401
402 uint256 public genesis_block;
403 uint256 private deadline = 3;
404
```



LINE 431

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
430 constructor() BEP20("Safemoon chain", "SMC") {
431 _tokengeneration(msg.sender, 21e6 * 10**decimals());
432 exemptFee[msg.sender] = true;
433
434 IRouter _router = IRouter(0x10ED43C718714eb63d5aA57B78B54704E256024E);
435
```



LINE 431

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
430 constructor() BEP20("Safemoon chain", "SMC") {
431 _tokengeneration(msg.sender, 21e6 * 10**decimals());
432 exemptFee[msg.sender] = true;
433
434 IRouter _router = IRouter(0x10ED43C718714eb63d5aA57B78B54704E256024E);
435
```



LINE 462

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
461 require(currentAllowance >= amount, "BEP20: transfer amount exceeds allowance");
462 _approve(sender, _msgSender(), currentAllowance - amount);
463
464 return true;
465 }
466
```



LINE 472

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

471	{
472	_approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);
473	return true;
474	}
475	
476	



LINE 483

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
482 require(currentAllowance >= subtractedValue, "BEP20: decreased allowance below
zero");
483 _approve(_msgSender(), spender, currentAllowance - subtractedValue);
484
485 return true;
486 }
487
```



LINE 511

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

Locations

510 !exemptFee[recipient] &&
511 block.number < genesis_block + deadline;
512
513 //set fee to zero if fees in contract are handled or exempted
514 if (_interlock || exemptFee[sender] || exemptFee[recipient])
515</pre>



LINE 520

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

Locations

519 feeswap =
520 sellTaxes.liquidity +
521 sellTaxes.marketing;
522 feesum = feeswap;
523 currentTaxes = sellTaxes;
524



LINE 526

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

Locations

525 feeswap = 526 taxes.liquidity + 527 taxes.marketing; 528 feesum = feeswap; 529 currentTaxes = taxes; 530



SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 535

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

Locations

534
535 fee = (amount * feesum) / 100;
536
537 //send fees if threshold has been reached
538 //don't do this on buys, breaks swap
539



SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 535

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

Locations

534
535 fee = (amount * feesum) / 100;
536
537 //send fees if threshold has been reached
538 //don't do this on buys, breaks swap
539



LINE 542

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
541 //rest to recipient
542 super._transfer(sender, recipient, amount - fee);
543 if (fee > 0) {
544 //send the fee to the contract
545 if (feeswap > 0) {
546
```



LINE 546

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
545 if (feeswap > 0) {
546 uint256 feeAmount = (amount * feeswap) / 100;
547 super._transfer(sender, address(this), feeAmount);
548 }
549
550
```



LINE 546

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
545 if (feeswap > 0) {
546 uint256 feeAmount = (amount * feeswap) / 100;
547 super._transfer(sender, address(this), feeAmount);
548 }
549
550
```



LINE 566

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
565 // Split the contract balance into halves
566 uint256 denominator = feeswap * 2;
567 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /
568 denominator;
569 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
570
```



LINE 567

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
566 uint256 denominator = feeswap * 2;
567 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /
568 denominator;
569 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
570
571
```



LINE 567

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
566 uint256 denominator = feeswap * 2;
567 uint256 tokensToAddLiquidityWith = (contractBalance * swapTaxes.liquidity) /
568 denominator;
569 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
570
571
```



LINE 569

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
568 denominator;
569 uint256 toSwap = contractBalance - tokensToAddLiquidityWith;
570
571 uint256 initialBalance = address(this).balance;
572
573
```



LINE 575

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
574
575 uint256 deltaBalance = address(this).balance - initialBalance;
576 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
577 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
578
579
```



LINE 576

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
575 uint256 deltaBalance = address(this).balance - initialBalance;
576 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
577 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
578
579 if (ethToAddLiquidityWith > 0) {
580
```



LINE 576

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
575 uint256 deltaBalance = address(this).balance - initialBalance;
576 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
577 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
578
579 if (ethToAddLiquidityWith > 0) {
580
```



LINE 577

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
576 uint256 unitBalance = deltaBalance / (denominator - swapTaxes.liquidity);
577 uint256 ethToAddLiquidityWith = unitBalance * swapTaxes.liquidity;
578
579 if (ethToAddLiquidityWith > 0) {
580 // Add liquidity to pancake
581
```



LINE 584

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
583
584 uint256 marketingAmt = unitBalance * 2 * swapTaxes.marketing;
585 if (marketingAmt > 0) {
586 payable(marketingWallet).sendValue(marketingAmt);
587 }
588
```



LINE 584

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
583
584 uint256 marketingAmt = unitBalance * 2 * swapTaxes.marketing;
585 if (marketingAmt > 0) {
586 payable(marketingWallet).sendValue(marketingAmt);
587 }
588
```



LINE 633

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
632 require(new_amount <= 21e4, "Swap threshold amount should be lower or equal to 1%
of tokens");
633 tokenLiquidityThreshold = new_amount * 10**decimals();
634 }
635
636 function EnableTrading() external onlyOwner {
637</pre>
```



LINE 633

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
632 require(new_amount <= 21e4, "Swap threshold amount should be lower or equal to 1%
of tokens");
633 tokenLiquidityThreshold = new_amount * 10**decimals();
634 }
635
636 function EnableTrading() external onlyOwner {
637</pre>
```



LINE 659

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
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 }
662 }
663</pre>
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

Iow SEVERITY

The current pragma Solidity directive is ""^0.8.8"". 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

- SafeMoonChain.sol

```
6
7 pragma solidity ^0.8.8;
8
9 abstract contract Context {
10 function _msgSender() internal view virtual returns (address) {
11
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 595

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
594 address[] memory path = new address[](2);
595 path[0] = address(this);
596 path[1] = router.WETH();
597
598 _approve(address(this), address(router), tokenAmount);
599
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 596

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
595 path[0] = address(this);
596 path[1] = router.WETH();
597
598 _approve(address(this), address(router), tokenAmount);
599
600
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 660

Iow SEVERITY

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

Source File

- SafeMoonChain.sol

```
659 for (uint256 i = 0; i < accounts.length; i++) {
660 exemptFee[accounts[i]] = state;
661 }
662 }
663
664</pre>
```



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

LINE 511

Iow 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

- SafeMoonChain.sol

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





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

LINE 640

Iow 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

- SafeMoonChain.sol

```
639 providingLiquidity = true;
640 genesis_block = block.number;
641 }
642
643 function updatedeadline(uint256 _deadline) external onlyOwner {
644
```





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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.

This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

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ABOUT US

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.