

REPORT 60FB41EDFDA78800186953FC

Created	Fri Jul 23 2021 22:25:49 GMT+0000 (Coordinated Universal Time)
Number of analyses	1
User	60fb400aa6e1846e55c6e980

REPORT SUMMARY

Analyses ID	Main source file	Detected vulnerabilities
1e65a520-0b70-485c-818b-726ef022eede	github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol	29

Started	Fri Jul 23 2021 22:25:53 GMT+0000 (Coordinated Universal Time)
Finished	Fri Jul 23 2021 22:28:25 GMT+0000 (Coordinated Universal Time)
Mode	Quick
Client Tool	Remythx
Main Source File	Github/Coin-Of-Nature/Coin-Of-Nature/Coin_of_Nature.Sol

DETECTED VULNERABILITIES

HIGH	MEDIUM	LOW
0	26	3

ISSUES

MEDIUM

Function could be marked as external.
The function definition of "renounceOwnership" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

SWC-000

Source file
github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol
Locations

```
443 * thereby removing any functionality that is only available to the owner.  
444 */  
445 function renounceOwnership() public virtual onlyOwner {  
446     emit OwnershipTransferred(_owner, address(0));  
447     _owner = address(0);  
448 }  
449  
450 /**
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "transferOwnership" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
452 * Can only be called by the current owner.
453 */
454 function transferOwnership(address newOwner) public virtual onlyOwner {
455     require(newOwner != address(0), "Ownable: new owner is the zero address");
456     emit OwnershipTransferred(_owner, newOwner);
457     _owner = newOwner;
458 }
459
460 function getUnlockTime() public view returns (uint256) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "getUnlockTime" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
458 }
459
460 function getUnlockTime() public view returns (uint256) {
461     return _lockTime;
462 }
463
464 //Locks the contract for owner for the amount of time provided
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "lock" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
463
464 //Locks the contract for owner for the amount of time provided
465 function lock(uint256 time) public virtual onlyOwner {
466     previousOwner = _owner;
467     _owner = address(0);
468     _lockTime = now + time;
469     emit OwnershipTransferred(_owner, address(0));
470 }
471
472 //Unlocks the contract for owner when _lockTime is exceeds
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "unlock" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
471 |  
472 | //Unlocks the contract for owner when _lockTime is exceeds  
473 | function unlock() public virtual {  
474 |     require(_previousOwner == msg.sender, "You don't have permission to unlock");  
475 |     require(now > _lockTime, "Contract is locked until 7 days");  
476 |     emit OwnershipTransferred(_owner, _previousOwner);  
477 |     _owner = _previousOwner;  
478 | }  
479 | }
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "name" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
762 | }  
763 |  
764 | function name() public view returns (string memory) {  
765 |     return _name;  
766 | }  
767 |  
768 | function symbol() public view returns (string memory) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "symbol" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
766 | }  
767 |  
768 | function symbol() public view returns (string memory) {  
769 |     return _symbol;  
770 | }  
771 |  
772 | function decimals() public view returns (uint8) {
```

MEDIUM Function could be marked as external.

SWC-000 The function definition of "decimals" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
770 | }
771 |
772 | function decimals() public view returns (uint8) {
773 |     return _decimals;
774 | }
775 |
776 | function totalSupply() public view override returns (uint256) {
```

MEDIUM Function could be marked as external.

SWC-000 The function definition of "totalSupply" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
774 | }
775 |
776 | function totalSupply() public view override returns (uint256) {
777 |     return _tTotal;
778 | }
779 |
780 | function balanceOf(address account) public view override returns (uint256) {
```

MEDIUM Function could be marked as external.

SWC-000 The function definition of "transfer" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
783 | }
784 |
785 | function transfer(address recipient, uint256 amount) public override returns (bool) {
786 |     _transfer(_msgSender(), recipient, amount);
787 |     return true;
788 | }
789 |
790 | function allowance(address owner, address spender) public view override returns (uint256) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "allowance" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
788 }  
789  
790 function allowance(address owner, address spender) public view override returns (uint256) {  
791     return _allowances[owner][spender];  
792 }  
793  
794 function approve(address spender, uint256 amount) public override returns (bool) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "approve" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
792 }  
793  
794 function approve(address spender, uint256 amount) public override returns (bool) {  
795     _approve(_msgSender(), spender, amount);  
796     return true;  
797 }  
798  
799 function transferFrom(address sender, address recipient, uint256 amount) public override returns (bool) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "transferFrom" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
797 }  
798  
799 function transferFrom(address sender, address recipient, uint256 amount) public override returns (bool) {  
800     _transfer(sender, recipient, amount);  
801     _approve(sender, _msgSender(), _allowances[sender][_msgSender()].sub(amount, "ERC20: transfer amount exceeds allowance"));  
802     return true;  
803 }  
804  
805 function increaseAllowance(address spender, uint256 addedValue) public virtual returns (bool) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "increaseAllowance" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
803 | }
804 |
805 | function increaseAllowance(address spender, uint256 addedValue) public virtual returns (bool) {
806 |     approve(_msgSender(), spender, _allowances[_msgSender()][spender].add(addedValue));
807 |     return true;
808 | }
809 |
810 | function decreaseAllowance(address spender, uint256 subtractedValue) public virtual returns (bool) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "decreaseAllowance" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
808 | }
809 |
810 | function decreaseAllowance(address spender, uint256 subtractedValue) public virtual returns (bool) {
811 |     approve(_msgSender(), spender, _allowances[_msgSender()][spender].sub(subtractedValue, "ERC20: decreased allowance below zero"));
812 |     return true;
813 | }
814 |
815 | function isExcludedFromReward(address account) public view returns (bool) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "isExcludedFromReward" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
813 | }
814 |
815 | function isExcludedFromReward(address account) public view returns (bool) {
816 |     return _isExcluded[account];
817 | }
818 |
819 | function totalFees() public view returns (uint256) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "totalFees" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
817 | }
818 |
819 | function totalFees() public view returns (uint256) {
820 |     return _tFeeTotal;
821 | }
822 |
823 | function deliver(uint256 tAmount) public {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "deliver" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
821 | }
822 |
823 | function deliver(uint256 tAmount) public {
824 |     address sender = _msgSender();
825 |     require(!_isExcluded(sender), "Excluded addresses cannot call this function");
826 |     (uint256 rAmount,,,,) = _getValues(tAmount);
827 |     _rOwned[sender] = _rOwned[sender].sub(rAmount);
828 |     _rTotal = _rTotal.sub(rAmount);
829 |     _tFeeTotal = _tFeeTotal.add(tAmount);
830 | }
831 |
832 | function reflectionFromToken(uint256 tAmount, bool deductTransferFee) public view returns(uint256) {
```


MEDIUM Function could be marked as external.

SWC-000

The function definition of "reflectionFromToken" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
830 }
831
832 function reflectionFromToken(uint256 tAmount bool deductTransferFee) public view returns(uint256) {
833     require(tAmount <= _tTotal, "Amount must be less than supply");
834     if (!deductTransferFee) {
835         uint256 rAmount = _getValues(tAmount);
836         return rAmount;
837     } else {
838         uint256 rTransferAmount = _getValues(tAmount);
839         return rTransferAmount;
840     }
841 }
842
843 function tokenFromReflection(uint256 rAmount) public view returns(uint256) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "excludeFromReward" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
847 }
848
849 function excludeFromReward(address account) public onlyOwner() {
850     // require(account != 0x7a250d5630B84cF539739dF2C5dAcb4c659F2488D, "We can not exclude Uniswap router.");
851     require(!_isExcluded(account), "Account is already excluded");
852     if (_rOwned[account] > 0) {
853         _tOwned[account] = _tokenFromReflection(_rOwned[account]);
854     }
855     _isExcluded[account] = true;
856     _excluded.push(account);
857 }
858
859 function includeInReward(address account) external onlyOwner() {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "excludeFromFee" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
880 | }
881 |
882 | function excludeFromFee(address account) public onlyOwner {
883 |     _isExcludedFromFee(account) = true;
884 | }
885 |
886 | function includeInFee(address account) public onlyOwner {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "includeInFee" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
884 | }
885 |
886 | function includeInFee(address account) public onlyOwner {
887 |     _isExcludedFromFee(account) = false;
888 | }
889 |
890 | function setTaxFeePercent(uint256 taxFee) external onlyOwner() {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "setSwapAndLiquifyEnabled" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
902 | }
903 |
904 | function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {
905 |     swapAndLiquifyEnabled = _enabled;
906 |     emit SwapAndLiquifyEnabledUpdated(_enabled);
907 | }
908 |
909 | //to recieve ETH from uniswapV2Router when swapping
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "isExcludedFromFee" is marked "public". However, it is never directly called by another function in the same contract or in any of its descendants. Consider to mark it as "external" instead.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
988 | }
989 |
990 | function isExcludedFromFee(address account) public view returns(bool) {
991 |     return _isExcludedFromFee(account);
992 | }
993 |
994 | function _approve(address owner, address spender, uint256 amount) private {
```

MEDIUM Read of persistent state following external call

SWC-107

The contract account state is accessed after an external call to a user defined address. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
756 |
757 | //exclude owner and this contract from fee
758 | _isExcludedFromFee[owner()] = true;
759 | _isExcludedFromFee[address(this)] = true;
```

MEDIUM Write to persistent state following external call

SWC-107

The contract account state is accessed after an external call to a user defined address. To prevent reentrancy issues, consider accessing the state only before the call, especially if the callee is untrusted. Alternatively, a reentrancy lock can be used to prevent untrusted callees from re-entering the contract in an intermediate state.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
757 | //exclude owner and this contract from fee
758 | _isExcludedFromFee[owner()] = true;
759 | _isExcludedFromFee[address(this)] = true;
760 |
761 | emit Transfer(address(0), _msgSender(), _tTotal);
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is `""^0.6.12""`. 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

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
13 | */
14 |
15 | pragma solidity ^0.6.12
16 | // SPDX-License-Identifier: Unlicensed
17 | interface IERC20 {
```

LOW

A call to a user-supplied address is executed.

SWC-107

An external message call to an address specified by the caller is executed. Note that the callee account might contain arbitrary code and could re-enter any function within this contract. Reentering the contract in an intermediate state may lead to unexpected behaviour. Make sure that no state modifications are executed after this call and/or reentrancy guards are in place.

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
749 | IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(0x10ED43C718714eb63d5aA57B78B54704E256024E);
750 | // Create a uniswap pair for this new token
751 | uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory());
752 | .createPair(address(this), _uniswapV2Router.WETH());
753 |
754 | // set the rest of the contract variables
```

LOW

Multiple calls are executed in the same transaction.

SWC-113

This call is executed following another call within the same transaction. It is possible that the call never gets executed if a prior call fails permanently. This might be caused intentionally by a malicious callee. If possible, refactor the code such that each transaction only executes one external call or make sure that all callees can be trusted (i.e. they're part of your own codebase).

Source file

github/Coin-of-Nature/Coin-of-Nature/Coin_of_Nature.sol

Locations

```
750 | // Create a uniswap pair for this new token
751 | uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
752 | .createPair(address(this), _uniswapV2Router.WETH());
753 |
754 | // set the rest of the contract variables
```