MythX

REPORT 60F18B007135DB0018E58F0C

Created	Fri Jul 16 2021 13:34:56 GMT+0000 (Coordinated Universal Time)
Number of analyses	1
User	60c34533a6e1844644c6e4cb

REPORT SUMMARY

Analyses ID	Main source file	Detected vulnerabilities
a656aed6-cd8a-4e3e-900e-58f4929f9088	contracts/RedFeg.sol	9

Analysis a656aed6-cd8a-4e3e-900e-58f4929f9088

MythX

Started	Fri Jul 16 2021 13:35:00 GMT+0000 (Coordinated Universal Time)
Finished	Fri Jul 16 2021 13:37:15 GMT+0000 (Coordinated Universal Time)
Mode	Quick
Client Tool	Mythx-Cli-0.6.22
Main Source File	Contracts/RedFeg.Sol

DETECTED VULNERABILITIES

HIGH	MEDIUM	LOW
0	7	2

ISSUES

MEDIUM

SWC-000

Incorrect function "name" state mutability

Function "name" state mutability is considered "pure" by compiler, but should be set to non-payable (default).

Source file

contracts/RedFeg.sol

Locations

```
_teamFee = 7;
}
uint256 contractTokenBalance = balanceOf(address(this));
if (!inSwap && from != uniswapV2Pair && swapEnabled) {
swapTokensForEth(contractTokenBalance);
uint256 contractETHBalance = address(this).balance;
```

MEDIUM

SWC-000

Function could be marked as external.

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

contracts/RedFeg.sol

Locations

```
uint256 contractTokenBalance = balanceOf(address(this));
if (!inSwap && from != uniswapV2Pair && swapEnabled) {
swapTokensForEth(contractTokenBalance);
uint256 contractETHBalance = address(this).balance;
if (contractETHBalance > 0) {
sendETHToFee(address(this).balance);
}
```

MEDIUM

SWC-000

Function could be marked as external.

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

`contracts/RedFeg.sol`

Locations

```
swapTokensForEth(contractTokenBalance);
uint256 contractETHBalance = address(this).balance;
if (contractETHBalance > 0) {
sendETHToFee(address(this).balance);
}
}
}
```

MEDIUM

SWC-000

Function could be marked as external.

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

`contracts/RedFeg.sol`

Locations

```

if (_isExcludedFromFee[from] || _isExcludedFromFee[to]) {
takeFee = false;
}

_tokenTransfer(from, to, amount, takeFee);
}

function swapTokensForEth(uint256 tokenAmount) private lockTheSwap {
address[] memory path = new address[](2);
path[0] = address(this);
path[1] = uniswapV2Router.WETH();
```

MEDIUM

SWC-000

Function could be marked as external.

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

`contracts/RedFeg.sol`

Locations

```

function swapTokensForEth(uint256 tokenAmount) private lockTheSwap {
address[] memory path = new address[](2);
path[0] = address(this);
path[1] = uniswapV2Router.WETH();
_approve(address(this), address(uniswapV2Router), tokenAmount);
uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
tokenAmount,
0,
```

MEDIUM

SWC-000

Function could be marked as external.

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

`contracts/RedFeg.sol`

Locations

```
path[1] = uniswapV2Router.WETH();
_approve(address(this), address(uniswapV2Router), tokenAmount);
uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
tokenAmount,
0,
path,
address(this),
block.timestamp
);
}

function sendETHToFee(uint256 amount) private {
_FeeAddress.transfer(amount.div(2));
_marketingWalletAddress.transfer(amount.div(2));
```

MEDIUM

SWC-000

Function could be marked as external.

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

`contracts/RedFeg.sol`

Locations

```
}

function sendETHToFee(uint256 amount) private {
_FeeAddress.transfer(amount.div(2));
_marketingWalletAddress.transfer(amount.div(2));
}

function openTrading() external onlyOwner() {
require(!tradingOpen, "trading is already open");
IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(
0x10ED43C718714eb63d5aA57B78B54704E256024E
);
uniswapV2Router = _uniswapV2Router;
_approve(address(this), address(uniswapV2Router), _tTotal);
uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
```

LOW

SWC-134

Call with hardcoded gas amount.

The highlighted function call forwards a fixed amount of gas. This is discouraged as the gas cost of EVM instructions may change in the future, which could break this contract's assumptions. If this was done to prevent reentrancy attacks, consider alternative methods such as the checks-effects-interactions pattern or reentrancy locks instead.

Source file

`contracts/RedFeg.sol`

Locations

```
function _getTValues(
uint256 tAmount,
uint256 taxFee,
uint256 TeamFee
)
private
```

LOW

SWC-134

Call with hardcoded gas amount.

The highlighted function call forwards a fixed amount of gas. This is discouraged as the gas cost of EVM instructions may change in the future, which could break this contract's assumptions. If this was done to prevent reentrancy attacks, consider alternative methods such as the checks-effects-interactions pattern or reentrancy locks instead.

Source file

`contracts/RedFeg.sol`

Locations

```
uint256 tAmount,
uint256 taxFee,
uint256 TeamFee
)
private
pure
returns (
uint256,
uint256,
```