Security Audit Report

PokeMoon (PKM)

BEP20 on Binance Smart Chain

24th of February, 2023





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Overview

Project Summary	
Project Name	PokeMoon (PKM)
Platform	Binance Smart Chain
Language	Solidity
Contract Type	BEP20
Contract Address	0xDD9A21502f44f5756660cCFD460BbC90D0c06DDF
Block Explorer	https://bscscan.com/

Audit Summary	
Delivery Date	Feb 24th, 2023 GMT+0
Block Number	21870309
Static Analysis	Yes
Graphic Analysis	Yes
Logic Disassemble	Yes
Mannual Review	Yes



Vulnerability Summary

Severity Level	Total	Acknowledged	Alleviated	Resolved
Critical	0	0	0	0
Major	0	0	0	0
Medium	0	0	0	0
Minor	0	0	0	0
Informational	0	0	0	0
Discussion	1	1	0	0



Fully Sanity Checks

	Read	Write	Al Scanned	Human Reviewed	Result	Suggested	Resolved
name()	Yes		Completed	Completed	No Risk		
symbol()	Yes		Completed	Completed	No Risk		
balanceOf()	Yes		Completed	Completed	No Risk		
decimals()	Yes		Completed	Completed	No Risk		
totalSupply()	Yes		Completed	Completed	No Risk		
allowance()	Yes		Completed	Completed	No Risk		
approve()		Yes	Completed	Completed	No Risk		
burn()		Yes	Completed	Completed	No Risk		
decreaseAllowance()		Yes	Completed	Completed	/ Low/No Risk		
increaseAllowance()		Yes	Completed	Completed	/ Low/No Risk		
renounceOwnership()		Yes	Completed	Completed	/ Low/No Risk		
transfer()		Yes	Completed	Completed	Low/No Risk		
transferFrom()		Yes	Completed	Completed	Low/No Risk		
transferOwnership()		Yes	Completed	Completed	Low/No Risk		

Source Code Analysis

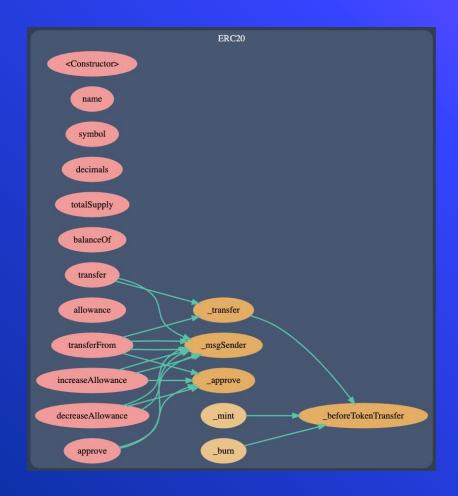
```
ontract ERC20 is Context, IERC20 (
  mapping (address => wint256) private balances;
  mapping (address => mapping (address => uint256)) private allowances:
 string private _name;
string private _symbol
  constructor (string memory name , string memory symbol ) {
     _symbol = symbol_;
  function totalSupply() public view virtual override returns (uint256) {
  function balanceOf(address account) public view virtual override returns (uint256) {
  function transfer(address recipient, uint256 amount) public virtual override returns (bool) {
     __transfer(_msqSender(), recipient, amount);
  function allowance(address owner, address spender) public view virtual override returns (uint256)
  function approve(address spender, uint256 amount) public virtual override returns (bool)
    approve( msgSender(), spender, amount);
  function transferFrom(address sender, address recipient, uint256 amount) public virtual override returns (bool
    - uint256 currentAllowance = _allowances |sender| (_msgSender());
     __require(currentAllowance >= amount, "ERC20: transfer amount exceeds allowance");
approve(sender, msoSender(), currentAllowance = amount);
  function increaseAllowance(address spender, uint256 addedValue) public virtual returns (bool) {
    - approve( msqSender(), spender, allowances[ msqSender()][spender] + addedValue];
  function decreaseAllowance(address spender, uint256 subtractedValue) public virtual returns (bool)
     function_transfer(address sender, address recipient, wint256 amount) internal virtual
     _require(sender != address(0], "ERC20: transfer from the zero address");
_require(recipient != address(0), "ERC20: transfer to the zero address");
     _beforeTokenTransfer(sender, recipient, amount);
     uint256 senderBalance = balances[sender]:
      require(senderBalance >= amount, "ERCZ0: transfer amount exceeds balance");
      _balances[sender] = senderBalance - amount
     emit Transfer(sender, recipient, amount):
```

We've found 6 contracts in PokeMoon project source code and the partial screenshot of the contract code as left side shown.

- PokeMoon,
- Ownable,
- ERC20,
- Pausable,
- Context,
- IERC20, respectively.

And PokeMoon is an interface in which will be implementing in later time.





ERC20 Contract

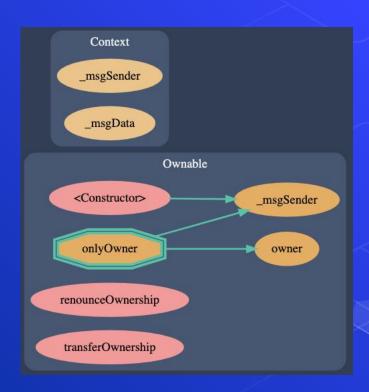
- name()
- symbol()
- decimals()
- totalSupply()
- balanceOf()
- allowance()

Read functions are running as expected while analyzing at the time of this writing.

- transferFrom()
- transfer()
- increaseAllowance()
- decreaseAllowance()
- approve()

Write functions are in no risk at the time of this writing





Context Contract
No public or external function can be called

Ownable Contract

- renounceOwnership()
- transferOwnership()

The owner of the contract can initiate ownership renounced or transferred.



66 Contract Ownership

Contract Ownership Has Not Been Renounced at the Time of Audit.



The contract ownership is not currently renounced. It's because the project team will implement the game contract and set the implementation solidity contract in later time.

We just placed the contract of the owner address below for you to look up: 0x226ecfb308a5174dd0065cF5195cd4f4695684cD

Some feasible suggestions that would also mitigate the potential risk at a different level for priviledged ownership.

- Time-lock with reasonable latency, e.g., 48 hours for awareness on priviledged operations
- Assignment of priviledged roles to multi-signature wallets to prevent a single point of failure, for example, due to the private key compromised

Liquidity Ownership

No Lock/Unlock Liquidity Logic Code Has Been Found.



This page will contain if there is that code that links to locked liquidity for the project if we are able to locate that information.

Locked liquidity information was neither found on the project's website nor inside the contracts.

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Mint Function

The Contract Cannot Mint New PokeMoon Tokens.

We do understand that Mint functions are crucial to the functionality of the project, it's core related to its investors.

But a mint function was not found in the contract code.

66 Burn Function

The Contract Has a Burn Function.

The Burn function works well as expected according to buy back from the market periodically.

A burn function was found in the contract code.





Present Mode



The left image is an actual snapshot of the current live website.

The website was registered on Feb-05-2023.





General Web Security



DOMAIN

A valid domain hosted by Cloudflare.

Registered on 05-Feb-2023

pokemoon.site



A legal SSL certificate was found. Issued at 05-Feb-2023 Signature Algorithm is

SSL CERTIFICATE

sha256WithRSAEncryption



Social Media Accounts

A bundle of social media accounts was found.

Twitter: https://twitter.com/PokeMoon_BEP20 Telegram: https://t.me/PokeMoonCommunity



No malware found. No injected spam found. No internal server errors.

Domain is marked clean by Google and McAfee.

SPAM/MALWARE

Disclaimer



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About

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