

REPORT 60668A8AB857B00011F186FA

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Number of analyses 1
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REPORT SUMMARY

Analyses ID	Main source file	Detected vulnerabilities
0911f61e-f770-4816-b2b2-0fa0361db315	Presale.sol	27

Started	Fri Apr 02 2021 03:08:02 GMT+0000 (Coordinated Universal Time)
Finished	Fri Apr 02 2021 03:53:03 GMT+0000 (Coordinated Universal Time)
Mode	Deep
Client Tool	Remythx
Main Source File	Presale.sol

DETECTED VULNERABILITIES

HIGH	MEDIUM	LOW
0	16	11

ISSUES

MEDIUM

Function could be marked as external.
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.

SWC-000

Source file
Presale.sol
Locations

```
387  * @dev Returns the name of the token.  
388  */  
389  function name() public view returns (string memory) {  
390  return _name;  
391  }  
392  
393  /**
```

MEDIUM

Function could be marked as external.
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.

SWC-000

Source file
Presale.sol
Locations

```
395  * name.  
396  */  
397  function symbol() public view returns (string memory) {  
398  return _symbol;  
399  }  
400  
401  /**
```

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

Presale.sol

Locations

```
412 | * {IBEP20-balanceOf} and {IBEP20-transfer}.413 | */  
414 | function decimals() public view returns (uint8) {  
415 |     return _decimals  
416 | }  
417 |  
418 | /**
```

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

Presale.sol

Locations

```
419 | * @dev See {IBEP20-totalSupply}.420 | */  
421 | function totalSupply() public view override returns (uint256) {  
422 |     return _totalSupply  
423 | }  
424 |  
425 | /**
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "balanceOf" 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

Presale.sol

Locations

```
426 | * @dev See {IBEP20-balanceOf}.427 | */  
428 | function balanceOf(address account) public view override returns (uint256) {  
429 |     return _balances[account]  
430 | }  
431 |  
432 | /**
```

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

Presale.sol

Locations

```
438 * - the caller must have a balance of at least `amount`.
439 */
440 function transfer(address recipient, uint256 amount) public virtual override returns (bool) {
441     transfer(_msgSender(), recipient, amount);
442     return true;
443 }
444
445 /**
```

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

Presale.sol

Locations

```
446 * @dev See {IBEP20-allowance}.
447 */
448 function allowance(address owner, address spender) public view virtual override returns (uint256) {
449     return _allowances[owner][spender];
450 }
451
452 /**
```

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

Presale.sol

Locations

```
457 * - `spender` cannot be the zero address.
458 */
459 function approve(address spender, uint256 amount) public virtual override returns (bool) {
460     approve(_msgSender(), spender, amount);
461     return true;
462 }
463
464 /**
```

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

Presale.sol

Locations

```
474 * `amount`.
475 */
476 function transferFrom(address sender, address recipient, uint256 amount) public virtual override returns (bool) {
477     transfer(sender, recipient, amount);
478     approve(sender, _msgSender(), _allowances[sender][_msgSender()].sub(amount, "BEP20: transfer amount exceeds allowance"));
479     return true;
480 }
481
482 /**
```

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

Presale.sol

Locations

```
492 * - `spender` cannot be the zero address.
493 */
494 function increaseAllowance(address spender, uint256 addedValue) public virtual returns (bool) {
495     approve(_msgSender(), spender, _allowances[_msgSender()][spender].add(addedValue));
496     return true;
497 }
498
499 /**
```

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

Presale.sol

Locations

```
511 * `subtractedValue`.
512 */
513 function decreaseAllowance(address spender, uint256 subtractedValue) public virtual returns (bool) {
514     approve(_msgSender(), spender, _allowances[_msgSender()][spender].sub(subtractedValue, "BEP20: decreased allowance below zero"));
515     return true;
516 }
517
518 /**
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "owner" 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

Presale.sol

Locations

```
664 | * @dev Returns the address of the current owner.  
665 | */  
666 | function owner() public view returns (address) {  
667 |     return _owner;  
668 | }  
669 |  
670 | /**
```

MEDIUM Function could be marked as external.

SWC-000

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.

Source file

Presale.sol

Locations

```
683 | * thereby removing any functionality that is only available to the owner.  
684 | */  
685 | function renounceOwnership() public virtual onlyOwner {  
686 |     emit OwnershipTransferred(_owner, address(0));  
687 |     _owner = address(0);  
688 | }  
689 |  
690 | /**
```

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

Presale.sol

Locations

```
692 | * Can only be called by the current owner.  
693 | */  
694 | function transferOwnership(address newOwner) public virtual onlyOwner {  
695 |     require(newOwner != address(0), "Ownable: new owner is the zero address");  
696 |     emit OwnershipTransferred(_owner, newOwner);  
697 |     _owner = newOwner;  
698 | }  
699 | }
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "getDepositAmount" 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

Presale.sol

Locations

```
766 | }
767 |
768 | function getDepositAmount() public view returns (uint256) {
769 |     return totalDepositedEthBalance;
770 | }
771 |
772 | function getLeftTimeAmount() public view returns (uint256) {
```

MEDIUM Function could be marked as external.

SWC-000

The function definition of "getLeftTimeAmount" 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

Presale.sol

Locations

```
770 | }
771 |
772 | function getLeftTimeAmount() public view returns (uint256) {
773 |     if (now > presaleEndTimestamp) {
774 |         return 0;
775 |     } else {
776 |         return (presaleEndTimestamp - now);
777 |     }
778 | }
779 |
780 | event Deposited(address indexed user, uint256 amount);
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.6.2"". 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

Presale.sol

Locations

```
3 | // File: @openzeppelin/contracts/utils/Address.sol
4 |
5 | pragma solidity ^0.6.2;
6 |
7 | /**
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is `""^0.6.0""`. 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

Presale.sol

Locations

```
65 | // File: @openzeppelin/contracts/GSN/Context.sol
66 |
67 | pragma solidity ^0.6.0
68 |
69 | /*
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is `""^0.6.0""`. 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

Presale.sol

Locations

```
95 | // File: @openzeppelin/contracts/token/BEP20/IBEP20.sol
96 |
97 | pragma solidity ^0.6.0
98 |
99 | /**
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is `""^0.6.0""`. 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

Presale.sol

Locations

```
174 | // File: @openzeppelin/contracts/math/SafeMath.sol
175 |
176 | pragma solidity ^0.6.0
177 |
178 | /**
```


LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is `""^0.6.0""`. 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

Presale.sol

Locations

```
328 | // File: @openzeppelin/contracts/token/BEP20/BEP20.sol
329 |
330 | pragma solidity ^0.6.0
331 |
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is `""^0.6.0""`. 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

Presale.sol

Locations

```
633 | // File: @openzeppelin/contracts/access/Ownable.sol
634 |
635 | pragma solidity ^0.6.0
636 |
637 | /**
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is `""^0.6.0""`. 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

Presale.sol

Locations

```
702 | /// @title PresaleBEP20 Contract
703 |
704 | pragma solidity ^0.6.0;
705 |
706 | interface MYSTERY {
```

LOW

Unused function parameter "from".

SWC-131

The value of the function parameter "from" for the function `"_beforeTokenTransfer"` of contract "BEP20" does not seem to be used anywhere in `"_beforeTokenTransfer"`.

Source file

Presale.sol

Locations

```
627 | * To learn more about hooks, head to xref:ROOT:extending-contracts.adoc#using-hooks[Using Hooks].
628 | */
629 | function _beforeTokenTransfer(address from, address to, uint256 amount) internal virtual { }
630 | }
```

LOW

Unused function parameter "to".

The value of the function parameter "to" for the function "_beforeTokenTransfer" of contract "BEP20" does not seem to be used anywhere in "_beforeTokenTransfer".

SWC-131

Source file

Presale.sol

Locations

```
627 | * To learn more about hooks, head to xref:ROOT:extending-contracts.adoc#using-hooks[Using Hooks].
628 | */
629 | function _beforeTokenTransfer(address from, address to, uint256 amount) internal virtual { }
630 | }
```

LOW

Unused function parameter "amount".

The value of the function parameter "amount" for the function "_beforeTokenTransfer" of contract "BEP20" does not seem to be used anywhere in "_beforeTokenTransfer".

SWC-131

Source file

Presale.sol

Locations

```
627 | * To learn more about hooks, head to xref:ROOT:extending-contracts.adoc#using-hooks[Using Hooks].
628 | */
629 | function _beforeTokenTransfer(address from, address to, uint256 amount) internal virtual { }
630 | }
```

LOW

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.

SWC-134

Source file

Presale.sol

Locations

```
757 | function releaseFunds() external onlyOwner {
758 |     require(now >= presaleEndTimestamp || totalDepositedEthBalance == hardCapEthAmount, "presale is active");
759 |     presale.transfer(address(this), balance);
760 | }
```