



# Audit Report

# **Valon Token**

December 2021

Type           BEP20

Address       0xc5419b49c60521116152fA47481b70CD8D0B742E

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# Table of Contents

|                             |           |
|-----------------------------|-----------|
| <b>Table of Contents</b>    | <b>1</b>  |
| <b>Contract Review</b>      | <b>2</b>  |
| <b>Audit Updates</b>        | <b>2</b>  |
| <b>Contract Analysis</b>    | <b>3</b>  |
| <b>MT - Mint Tokens</b>     | <b>4</b>  |
| <b>Description</b>          | <b>4</b>  |
| <b>Recommendation</b>       | <b>4</b>  |
| <b>Contract Diagnostics</b> | <b>5</b>  |
| <b>Contract Functions</b>   | <b>6</b>  |
| <b>Contract Flow</b>        | <b>8</b>  |
| <b>Domain Info</b>          | <b>9</b>  |
| <b>Summary</b>              | <b>10</b> |
| <b>Disclaimer</b>           | <b>11</b> |
| <b>About Coinscope</b>      | <b>12</b> |

## Contract Review

|                         |                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contract Name</b>    | ValonToken                                                                                                                                              |
| <b>Compiler Version</b> | v0.8.7+commit.e28d00a7                                                                                                                                  |
| <b>Optimization</b>     | 200 runs                                                                                                                                                |
| <b>Licence</b>          | None                                                                                                                                                    |
| <b>Explorer</b>         | <a href="https://bscscan.com/token/0xc5419b49c60521116152fA47481b70CD8D0B742E">https://bscscan.com/token/0xc5419b49c60521116152fA47481b70CD8D0B742E</a> |
| <b>Symbol</b>           | VLON                                                                                                                                                    |
| <b>Decimals</b>         | 18                                                                                                                                                      |
| <b>Total Supply</b>     | 250,000,000                                                                                                                                             |
| <b>Source</b>           | contract.sol                                                                                                                                            |
| <b>Domain</b>           | valon.info                                                                                                                                              |

## Audit Updates

|                      |                    |
|----------------------|--------------------|
| <b>Initial Audit</b> | 27th December 2021 |
| <b>Corrected</b>     |                    |

# Contract Analysis

● Critical
 ● Medium
 ● Pass

| Severity                            | Code | Description                                                                                                       |
|-------------------------------------|------|-------------------------------------------------------------------------------------------------------------------|
| <span style="color: red;">●</span>  | MT   | Contract Owner is not able to mint new tokens                                                                     |
| <span style="color: blue;">●</span> | BT   | Contract Owner is not able to burn tokens from specific wallet                                                    |
| <span style="color: blue;">●</span> | ELFM | Contract Owner is not able to increase fees more than a reasonable percent (25%)                                  |
| <span style="color: blue;">●</span> | ST   | Contract Owner is not able to pause transactions for everyone else except him                                     |
| <span style="color: blue;">●</span> | OCTD | Contract Owner is not able to transfer tokens from specific address                                               |
| <span style="color: blue;">●</span> | ULTW | Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent |
| <span style="color: blue;">●</span> | BC   | Contract Owner is not able to blacklist wallets from selling                                                      |

## MT - Mint Tokens

**Criticality**

critical

**Location**<https://bscscan.com/address/0xc5419b49c60521116152fA47481b70CD8D0B742E#code#L588>

## Description

The contract owner has the authority to mint tokens. The owner may take advantage of it by calling the `mint` function. As a result the total supply will be highly inflated.

```
function mint(uint256 amount) public onlyOwner returns (bool) {  
    _mint(_msgSender(), amount);  
    return true;  
}
```

## Recommendation

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by renouncing ownership.

# Contract Diagnostics

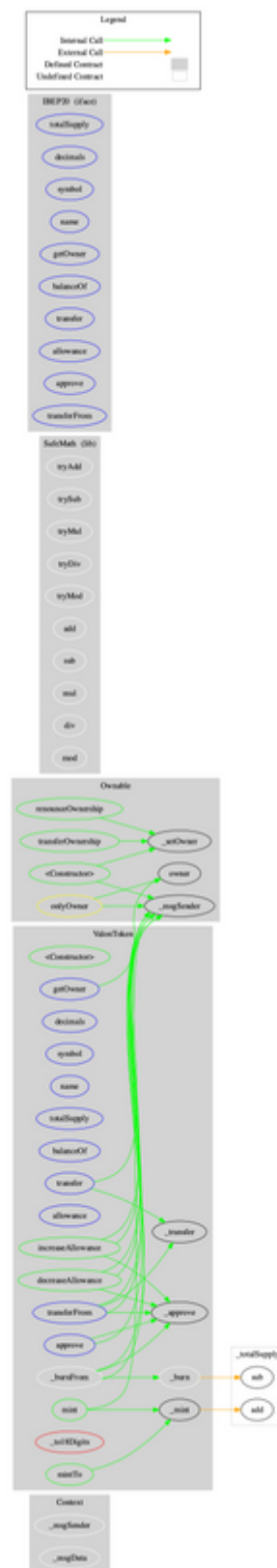
| Pass | Name                            |
|------|---------------------------------|
| ✓    | Integer Underflow               |
| ✓    | Parity Multisig Bug             |
| ✓    | Callstack Depth Attack          |
| ✓    | Transaction-Ordering Dependency |
| ✓    | Timestamp Dependency            |
| ✓    | Re-Entrancy                     |

# Contract Functions

| Contract        | Type              | Bases      |            |           |
|-----------------|-------------------|------------|------------|-----------|
|                 | Function Name     | Visibility | Mutability | Modifiers |
|                 |                   |            |            |           |
| <b>Context</b>  | Implementation    |            |            |           |
|                 | _msgSender        | Internal   |            |           |
|                 | _msgData          | Internal   |            |           |
|                 |                   |            |            |           |
| <b>Ownable</b>  | Implementation    | Context    |            |           |
|                 | <Constructor>     | Public     | ✓          | -         |
|                 | owner             | Public     |            | -         |
|                 | renounceOwnership | Public     | ✓          | onlyOwner |
|                 | transferOwnership | Public     | ✓          | onlyOwner |
|                 | _setOwner         | Private    | ✓          |           |
|                 |                   |            |            |           |
| <b>SafeMath</b> | Library           |            |            |           |
|                 | tryAdd            | Internal   |            |           |
|                 | trySub            | Internal   |            |           |
|                 | tryMul            | Internal   |            |           |
|                 | tryDiv            | Internal   |            |           |
|                 | tryMod            | Internal   |            |           |
|                 | add               | Internal   |            |           |
|                 | sub               | Internal   |            |           |
|                 | mul               | Internal   |            |           |
|                 | div               | Internal   |            |           |
|                 | mod               | Internal   |            |           |
|                 | sub               | Internal   |            |           |
|                 | div               | Internal   |            |           |
|                 | mod               | Internal   |            |           |
|                 |                   |            |            |           |
| <b>IBEP20</b>   | Interface         |            |            |           |

|                   |                   |                                |   |           |
|-------------------|-------------------|--------------------------------|---|-----------|
|                   | totalSupply       | External                       |   | -         |
|                   | decimals          | External                       |   | -         |
|                   | symbol            | External                       |   | -         |
|                   | name              | External                       |   | -         |
|                   | getOwner          | External                       |   | -         |
|                   | balanceOf         | External                       |   | -         |
|                   | transfer          | External                       | ✓ | -         |
|                   | allowance         | External                       |   | -         |
|                   | approve           | External                       | ✓ | -         |
|                   | transferFrom      | External                       | ✓ | -         |
|                   |                   |                                |   |           |
| <b>ValonToken</b> | Implementation    | Context,<br>IBEP20,<br>Ownable |   |           |
|                   | <Constructor>     | Public                         | ✓ | -         |
|                   | getOwner          | External                       |   | -         |
|                   | decimals          | External                       |   | -         |
|                   | symbol            | External                       |   | -         |
|                   | name              | External                       |   | -         |
|                   | totalSupply       | External                       |   | -         |
|                   | balanceOf         | External                       |   | -         |
|                   | transfer          | External                       | ✓ | -         |
|                   | allowance         | External                       |   | -         |
|                   | approve           | External                       | ✓ | -         |
|                   | transferFrom      | External                       | ✓ | -         |
|                   | increaseAllowance | Public                         | ✓ | -         |
|                   | decreaseAllowance | Public                         | ✓ | -         |
|                   | mint              | Public                         | ✓ | onlyOwner |
|                   | _transfer         | Internal                       | ✓ |           |
|                   | _mint             | Internal                       | ✓ |           |
|                   | _burn             | Internal                       | ✓ |           |
|                   | _approve          | Internal                       | ✓ |           |
|                   | _burnFrom         | Internal                       | ✓ |           |
|                   | _to18Digits       | Private                        |   |           |
|                   | mintTo            | Public                         | ✓ | onlyOwner |

# Contract Flow



## Domain Info

|                               |                                         |
|-------------------------------|-----------------------------------------|
| <b>Domain Name</b>            | valon.info                              |
| <b>Registry Domain ID</b>     | 586fb1cb0b2746afa4f0f3f5e819f9ac-DONUTS |
| <b>Creation Date</b>          | 2021-05-25T01:07:27Z                    |
| <b>Updated Date</b>           | 2021-07-24T20:32:27Z                    |
| <b>Registry Expiry Date</b>   | 2022-05-25T01:07:27Z                    |
| <b>Registrar WHOIS Server</b> |                                         |
| <b>Registrar URL</b>          | http://www.internet.bs                  |
| <b>Registrar</b>              | Internet Domain Service BS Corp         |
| <b>Registrar IANA ID</b>      | 2487                                    |

The domain was created 7 months before the analysis of the audit. It is set for expiration in 5 months.

There is no public billing information, the creator is protected by the privacy settings.

## Summary

Valon is an interesting project with a friendly and growing community. Their goal is to create a platform for trading virtual items, NFTs and more. The smart contract analysis showed no compiler errors and one critical security threat. There is an Owner-only function that allows the owner to mint any amount of new tokens. A multi-wallet signing pattern will provide security against potential hacks. Renouncing ownership will eliminate all the contract threats.

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## About Coinscope

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Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>



# Audit Report

## **Valon Staking**

January 2022

|            |                                            |
|------------|--------------------------------------------|
| Type       | BEP20                                      |
| Network    | BSC                                        |
| Address    | 0x050026BC64dCfED18FcB3D57923827EcF11f3208 |
| Audited by | © coinscope                                |

# Table of Contents

|                                                         |           |
|---------------------------------------------------------|-----------|
| <b>Table of Contents</b>                                | <b>1</b>  |
| <b>Contract Review</b>                                  | <b>3</b>  |
| <b>Audit Updates</b>                                    | <b>3</b>  |
| <b>Contract Analysis</b>                                | <b>4</b>  |
| <b>Contract Owner Can Disable the Rewards</b>           | <b>4</b>  |
| Description                                             | 4         |
| Recommendation                                          | 4         |
| <b>Contract Owner Can Disable the Unstaking</b>         | <b>5</b>  |
| Description                                             | 5         |
| Recommendation                                          | 5         |
| <b>Rewards Amount Consideration</b>                     | <b>6</b>  |
| Description                                             | 6         |
| Recommendation                                          | 6         |
| <b>Contract Diagnostics</b>                             | <b>7</b>  |
| <b>CR - Code Repetition</b>                             | <b>8</b>  |
| Description                                             | 8         |
| Recommendation                                          | 8         |
| <b>L01 - Public Function could be Declared External</b> | <b>9</b>  |
| Description                                             | 9         |
| Recommendation                                          | 9         |
| <b>L09 - Dead Code Elimination</b>                      | <b>10</b> |
| Description                                             | 10        |
| Recommendation                                          | 10        |
| <b>L11 - Unnecessary Boolean equality</b>               | <b>11</b> |
| Description                                             | 11        |
| Recommendation                                          | 11        |

|                                        |           |
|----------------------------------------|-----------|
| <b>L07 - Missing Events Arithmetic</b> | <b>12</b> |
| <b>Description</b>                     | <b>12</b> |
| <b>Recommendation</b>                  | <b>12</b> |
| <b>Contract Functions</b>              | <b>13</b> |
| <b>Contract Flow</b>                   | <b>17</b> |
| <b>Summary</b>                         | <b>18</b> |
| <b>Disclaimer</b>                      | <b>19</b> |
| <b>About Coinscope</b>                 | <b>20</b> |

## Contract Review

|                         |                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contract Name</b>    | ValonStaking                                                                                                                                                |
| <b>Compiler Version</b> | v0.8.7+commit.e28d00a7                                                                                                                                      |
| <b>Optimization</b>     | 200 runs                                                                                                                                                    |
| <b>Licence</b>          | None                                                                                                                                                        |
| <b>Explorer</b>         | <a href="https://bscscan.com/address/0x050026BC64dCfED18FcB3D57923827EcF11f3208">https://bscscan.com/address/0x050026BC64dCfED18FcB3D57923827EcF11f3208</a> |
| <b>Source</b>           | contract.sol                                                                                                                                                |

## Audit Updates

|                      |                   |
|----------------------|-------------------|
| <b>Initial Audit</b> | 30th January 2022 |
| <b>Corrected</b>     |                   |

# Contract Analysis

## Contract Owner Can Disable the Rewards

|             |                    |
|-------------|--------------------|
| Criticality | minor              |
| Location    | contract.sol#L1177 |

### Description

The contract owner has the authority to disable the rewards for the users. The owner may take advantage of it by setting the `_rewardCap` to zero.

```
function claimRewards(address poolAddress) public nonReentrant {  
    uint256 actualRewards = this.getActualRewards(poolAddress, msg.sender);  
    require(actualRewards > 0, "BEP20: no rewards available");  
    require(_totalRewards < _rewardCap, "BEP20: Reward cap reached");  
    ...  
}
```

### Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one.

## Contract Owner Can Disable the Unstaking

|             |                    |
|-------------|--------------------|
| Criticality | minor              |
| Location    | contract.sol#L1205 |

### Description

The contract owner has the authority to disable the unstaking for the users. The owner may take advantage of it by setting the `_timelockHeight` to a high value.

```
function removeStake(address poolAddress, uint256 lptAmount) public nonReentrant
{
    require(lptAmount > 0, "BEP20: amount needs to be more than 0");
    require(lptAmount <= this.getStake(poolAddress, msg.sender), "BEP20: amount
more than staking balance");
    if (_timelockActive) {
        uint256 blocks =
block.number.sub(blockHeights[poolAddress][msg.sender]);
        require(blocks >= _timelockHeight, "BEP20: Timelock still active");
    }
    ...
}
```

### Recommendation

The owner should carefully manage the credentials of the owner's account. We advised considering an extra-strong security mechanism that the actions may be quarantined by many users instead of one.

## Rewards Amount Consideration

|             |                    |
|-------------|--------------------|
| Criticality | minor              |
| Location    | contract.sol#L1232 |

### Description

Users can stack liquidity pool tokens in the pool. As a reward, they get Valon tokens. Currently there is no guarantee that the rewards are enough for the claimers. During the pool creation, the contract owner could also transfer Valon tokens in the stacking contract. That way, it will guarantee that the rewards will be sufficient for the users.

```
function claimRewards(address poolAddress) public nonReentrant {  
    ...  
    require(valon.transfer(msg.sender, reward), "Failed to transfer rewards");  
}
```

### Recommendation

The contract could transfer Valon tokens to the stacking contract during the pool creation. That way it will be more transparent, and there will always be funds to cover the user's rewards.

# Contract Diagnostics

● Critical    ● Medium    ● Minor

| Severity | Code | Description                                |
|----------|------|--------------------------------------------|
| ●        | CR   | Code Repetition                            |
| ●        | L01  | Public Function could be Declared External |
| ●        | L09  | Dead Code Elimination                      |
| ●        | L11  | Unnecessary Boolean equality               |
| ●        | L07  | Missing Events Arithmetic                  |

## CR - Code Repetition

|                    |                    |
|--------------------|--------------------|
| <b>Criticality</b> | minor              |
| <b>Location</b>    | contract.sol#L1177 |

### Description

There are code segments that are repetitive in the contract. Those segments increase the code size of the contract unnecessarily.

```
function _updateStakeHolderCount(address poolAddress, address stakeHolder, bool
addingStake) private {
    if (addingStake) {
        if (getStake(poolAddress, stakeHolder) == 0) {
            pools[poolAddress].stakeHolderCount =
pools[poolAddress].stakeHolderCount.add(1);
        }
    } else {
        if (getStake(poolAddress, stakeHolder) == 0) {
            pools[poolAddress].stakeHolderCount =
pools[poolAddress].stakeHolderCount.sub(1);
        }
    }
}
```

### Recommendation

Create an internal function that contains the code segment and remove it from all the sections.

Suggestion:

```
function _updateStakeHolderCount(address poolAddress, address stakeHolder, bool
addingStake) private {
    if (getStake(poolAddress, stakeHolder) > 0) return

    pools[poolAddress].stakeHolderCount = addingStake ?
pools[poolAddress].stakeHolderCount.add(1) :
pools[poolAddress].stakeHolderCount.sub(1)
}
```

## L01 - Public Function could be Declared External

|                    |                                            |
|--------------------|--------------------------------------------|
| <b>Criticality</b> | minor                                      |
| <b>Location</b>    | contract.sol#L1368,L1364,L1357 and 25 more |

### Description

Public functions that are never called by the contract should be declared external to save gas.

```
setDifficulty  
setTotalRewards  
setSharePoolRewards  
...
```

### Recommendation

Use the external attribute for functions never called from the contract

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

contract.sol#L1065,L1060,L1025 and 19 more

### Description

Functions that are not used in the contract, and make the code's size bigger.

```
_to18Digits  
_burnFrom  
_burn  
...
```

### Recommendation

Remove unused functions.

## L11 - Unnecessary Boolean equality

**Criticality**

minor

**Location**

contract.sol#L1189

### Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
require(bool,string)(pools[poolAddress].active == true,BEP20: pool is not active)
```

### Recommendation

Remove the equality to the boolean constant.

## L07 - Missing Events Arithmetic

**Criticality**

minor

**Location**

contract.sol#L1368,L1364,L1349 and 2 more

### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
_difficulty = difficulty  
_totalRewards = totalRewards  
_rewardCap = amountEth  
...
```

### Recommendation

Emit an event for critical parameter changes.

# Contract Functions

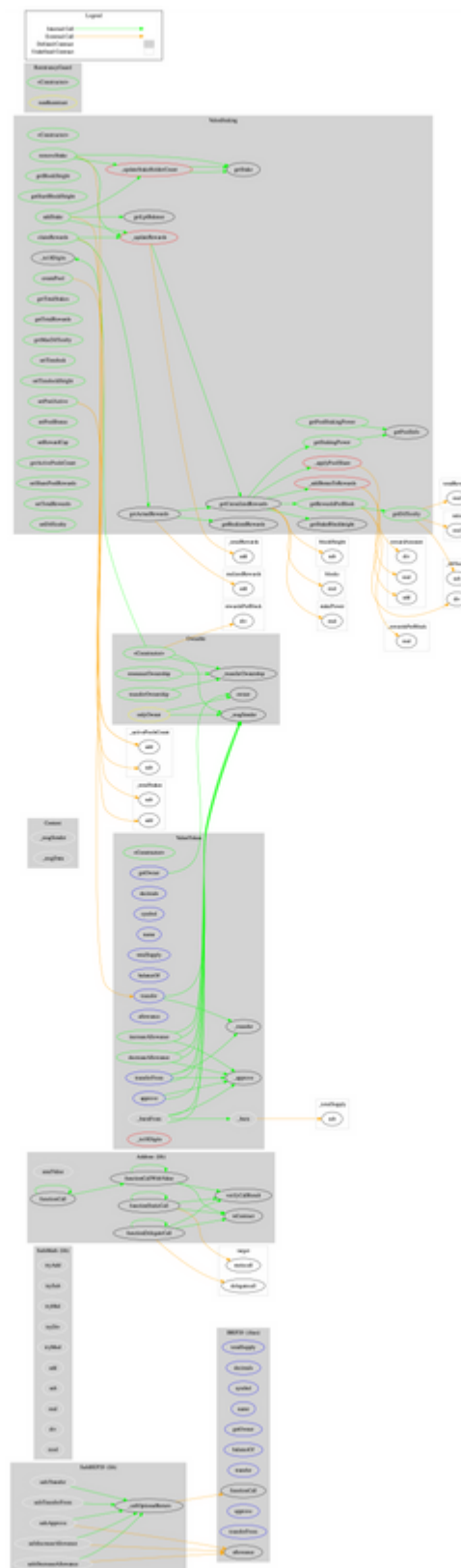
| Contract        | Type          | Bases      |            |           |
|-----------------|---------------|------------|------------|-----------|
|                 | Function Name | Visibility | Mutability | Modifiers |
|                 |               |            |            |           |
| <b>IBEP20</b>   | Interface     |            |            |           |
|                 | totalSupply   | External   |            | -         |
|                 | decimals      | External   |            | -         |
|                 | symbol        | External   |            | -         |
|                 | name          | External   |            | -         |
|                 | getOwner      | External   |            | -         |
|                 | balanceOf     | External   |            | -         |
|                 | transfer      | External   | ✓          | -         |
|                 | allowance     | External   |            | -         |
|                 | approve       | External   | ✓          | -         |
|                 | transferFrom  | External   | ✓          | -         |
|                 |               |            |            |           |
| <b>SafeMath</b> | Library       |            |            |           |
|                 | tryAdd        | Internal   |            |           |
|                 | trySub        | Internal   |            |           |
|                 | tryMul        | Internal   |            |           |
|                 | tryDiv        | Internal   |            |           |
|                 | tryMod        | Internal   |            |           |
|                 | add           | Internal   |            |           |
|                 | sub           | Internal   |            |           |
|                 | mul           | Internal   |            |           |
|                 | div           | Internal   |            |           |
|                 | mod           | Internal   |            |           |
|                 | sub           | Internal   |            |           |
|                 | div           | Internal   |            |           |
|                 | mod           | Internal   |            |           |
|                 |               |            |            |           |
| <b>Address</b>  | Library       |            |            |           |
|                 | isContract    | Internal   |            |           |

|                        |                       |                     |   |           |
|------------------------|-----------------------|---------------------|---|-----------|
|                        | sendValue             | Internal            | ✓ |           |
|                        | functionCall          | Internal            | ✓ |           |
|                        | functionCall          | Internal            | ✓ |           |
|                        | functionCallWithValue | Internal            | ✓ |           |
|                        | functionCallWithValue | Internal            | ✓ |           |
|                        | functionStaticCall    | Internal            |   |           |
|                        | functionStaticCall    | Internal            |   |           |
|                        | functionDelegateCall  | Internal            | ✓ |           |
|                        | functionDelegateCall  | Internal            | ✓ |           |
|                        | verifyCallResult      | Internal            |   |           |
|                        |                       |                     |   |           |
| <b>SafeBEP20</b>       | Library               |                     |   |           |
|                        | safeTransfer          | Internal            | ✓ |           |
|                        | safeTransferFrom      | Internal            | ✓ |           |
|                        | safeApprove           | Internal            | ✓ |           |
|                        | safeIncreaseAllowance | Internal            | ✓ |           |
|                        | safeDecreaseAllowance | Internal            | ✓ |           |
|                        | _callOptionalReturn   | Private             | ✓ |           |
|                        |                       |                     |   |           |
| <b>Context</b>         | Implementation        |                     |   |           |
|                        | _msgSender            | Internal            |   |           |
|                        | _msgData              | Internal            |   |           |
|                        |                       |                     |   |           |
| <b>Ownable</b>         | Implementation        | Context             |   |           |
|                        | <Constructor>         | Public              | ✓ | -         |
|                        | owner                 | Public              |   | -         |
|                        | renounceOwnership     | Public              | ✓ | onlyOwner |
|                        | transferOwnership     | Public              | ✓ | onlyOwner |
|                        | _transferOwnership    | Internal            | ✓ |           |
|                        |                       |                     |   |           |
| <b>ReentrancyGuard</b> | Implementation        |                     |   |           |
|                        | <Constructor>         | Public              | ✓ | -         |
|                        |                       |                     |   |           |
| <b>ValonToken</b>      | Implementation        | Context,<br>IBEP20, |   |           |

|                     |                         |                                 |   |              |
|---------------------|-------------------------|---------------------------------|---|--------------|
|                     |                         | Ownable                         |   |              |
|                     | <Constructor>           | Public                          | ✓ | -            |
|                     | getOwner                | External                        |   | -            |
|                     | decimals                | External                        |   | -            |
|                     | symbol                  | External                        |   | -            |
|                     | name                    | External                        |   | -            |
|                     | totalSupply             | External                        |   | -            |
|                     | balanceOf               | External                        |   | -            |
|                     | transfer                | External                        | ✓ | -            |
|                     | allowance               | External                        |   | -            |
|                     | approve                 | External                        | ✓ | -            |
|                     | transferFrom            | External                        | ✓ | -            |
|                     | increaseAllowance       | Public                          | ✓ | -            |
|                     | decreaseAllowance       | Public                          | ✓ | -            |
|                     | _transfer               | Internal                        | ✓ |              |
|                     | _burn                   | Internal                        | ✓ |              |
|                     | _approve                | Internal                        | ✓ |              |
|                     | _burnFrom               | Internal                        | ✓ |              |
|                     | _to18Digits             | Private                         |   |              |
|                     |                         |                                 |   |              |
| <b>ValonStaking</b> | Implementation          | Ownable,<br>Reentrancy<br>Guard |   |              |
|                     | <Constructor>           | Public                          | ✓ | -            |
|                     | createPool              | Public                          | ✓ | onlyOwner    |
|                     | getPoolInfo             | Public                          |   | -            |
|                     | getBlockHeight          | Public                          |   | -            |
|                     | getStartBlockHeight     | Public                          |   | -            |
|                     | _updateRewards          | Private                         | ✓ |              |
|                     | _addBonusToRewards      | Private                         |   |              |
|                     | _applyPoolShare         | Private                         |   |              |
|                     | _updateStakeHolderCount | Private                         | ✓ |              |
|                     | addStake                | Public                          | ✓ | nonReentrant |
|                     | removeStake             | Public                          | ✓ | nonReentrant |
|                     | claimRewards            | Public                          | ✓ | nonReentrant |
|                     | _to18Digits             | Private                         |   |              |

|  |                      |        |   |           |
|--|----------------------|--------|---|-----------|
|  | getStake             | Public |   | -         |
|  | getLptBalance        | Public |   | -         |
|  | getStakeBlockheight  | Public |   | -         |
|  | getTotalStakes       | Public |   | -         |
|  | getTotalRewards      | Public |   | -         |
|  | getRealizedRewards   | Public |   | -         |
|  | getMaxDifficulty     | Public |   | -         |
|  | getDifficulty        | Public |   | -         |
|  | getPoolStakingPower  | Public |   | -         |
|  | getRewardsPerBlock   | Public |   | -         |
|  | getStakingPower      | Public |   | -         |
|  | getUnrealizedRewards | Public |   | -         |
|  | getActualRewards     | Public |   | -         |
|  | setTimelock          | Public | ✓ | onlyOwner |
|  | setTimelockHeight    | Public | ✓ | onlyOwner |
|  | setPoolActive        | Public | ✓ | onlyOwner |
|  | setPoolBonus         | Public | ✓ | onlyOwner |
|  | setRewardCap         | Public | ✓ | onlyOwner |
|  | getActivePoolsCount  | Public |   | -         |
|  | setSharePoolRewards  | Public | ✓ | onlyOwner |
|  | setTotalRewards      | Public | ✓ | onlyOwner |
|  | setDifficulty        | Public | ✓ | onlyOwner |

# Contract Flow



## Summary

Valon Staking providers stacking for multiple LP tokens. Every LP token is a different pool in the contract. Users can deposit LP tokens for the corresponding pool. As a reward they gain Valon tokens. The rewards are calculated according to the stacking period and the supplied amount. The audit remarks some optimizations and security concerns.

# Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

Coinscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Coinscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Coinscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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## About Coinscope

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>