



Cyberscope

Audit Report

AvatarGrow

October 2022

Type BEP20

Network BSC

Address 0x05b61Cc6eeE6d0a4AC4E91b3E3A3ad9a16A6b5BD

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Contract Review

| | |
|-------------------------|---|
| Contract Name | AvatarGrow |
| Compiler Version | v0.8.17+commit.8df45f5f |
| Optimization | 5000 runs |
| Licence | MIT |
| Explorer | https://bscscan.com/token/0x05b61Cc6eeE6d0a4AC4E91b3E3A3ad9a16A6b5BD |
| Symbol | AVG |
| Decimals | 18 |
| Total Supply | 1,000,000,000 |
| Domain | avatargrow.com |

Source Files

| | |
|---------------------|--|
| Filename | SHA256 |
| contract.sol | 4ac71ff5ec212ba65f6c7459469f27c42a6953d1b95eb400d15cbd94a5c54168 |

Audit Updates

| | |
|----------------------|--|
| Initial Audit | 13th October 2022 https://github.com/cyberscope-io/audits/blob/main/2-avg/v1/audit.pdf |
| Corrected | 17th October 2022 |

Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

| Severity | Code | Description | Status |
|----------|------|------------------------------------|--------|
| ● | ST | Stops Transactions | Passed |
| ● | OCTD | Transfers Contract's Tokens | Passed |
| ● | OTUT | Transfers User's Tokens | Passed |
| ● | ELFM | Exceeds Fees Limit | Passed |
| ● | ULTW | Transfers Liquidity to Team Wallet | Passed |
| ● | MT | Mints Tokens | Passed |
| ● | BT | Burns Tokens | Passed |
| ● | BC | Blacklists Addresses | Passed |

Contract Diagnostics

● Critical ● Medium ● Minor / Informative

| Severity | Code | Description | Status |
|----------|------|--|------------|
| ● | L01 | Public Function could be Declared External | Unresolved |
| ● | L04 | Conformance to Solidity Naming Conventions | Unresolved |
| ● | L05 | Unused State Variable | Unresolved |
| ● | L07 | Missing Events Arithmetic | Unresolved |
| ● | L09 | Dead Code Elimination | Unresolved |
| ● | L12 | Using Variables before Declaration | Unresolved |
| ● | L14 | Uninitialized Variables in Local Scope | Unresolved |

L01 - Public Function could be Declared External

| | |
|--------------------|-----------------------|
| Criticality | minor / informative |
| Location | contract.sol#L319,612 |
| Status | Unresolved |

Description

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

```
approveContractContingency  
enableTrading
```

Recommendation

Use the external attribute for functions never called from the contract.

L04 - Conformance to Solidity Naming Conventions

| | |
|--------------------|--|
| Criticality | minor / informative |
| Location | contract.sol#L33,409,465,114,117,126,127,128,129,130,144,150,156,157,158,180 |
| Status | Unresolved |

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow `_` at the beginning of the `mixed_case` match for private variables and unused parameters.

```
WETH
_antiSnipe
_antiBlock
_minPeriod
_minReflection
_tOwned
_allowances
startingSupply
_name
...
```

Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>.

L05 - Unused State Variable

| | |
|--------------------|---------------------|
| Criticality | minor / informative |
| Location | contract.sol#L120 |
| Status | Unresolved |

Description

There are segments that contain unused state variables.

```
_isExcludedFromLimits
```

Recommendation

Remove unused state variables.

L07 - Missing Events Arithmetic

| | |
|--------------------|---------------------------|
| Criticality | minor / informative |
| Location | contract.sol#L444,453,470 |
| Status | Unresolved |

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.

```
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor  
piSwapPercent = priceImpactSwapPercent  
reflectorGas = gas
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

| | |
|--------------------|---------------------|
| Criticality | minor / informative |
| Location | contract.sol#L511 |
| Status | Unresolved |

Description

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

```
_basicTransfer
```

Recommendation

Remove unused functions.

L12 - Using Variables before Declaration

| | |
|--------------------|---------------------|
| Criticality | minor / informative |
| Location | contract.sol#L629 |
| Status | Unresolved |

Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

check

Recommendation

The variables should be declared before any usage of them.

L14 - Uninitialized Variables in Local Scope

| | |
|--------------------|-----------------------|
| Criticality | minor / informative |
| Location | contract.sol#L628,629 |
| Status | Unresolved |

Description

These are variables that are defined in the local scope and are not initialized.

checked
check

Recommendation

All the local scoped variables should be initialized.

Contract Functions

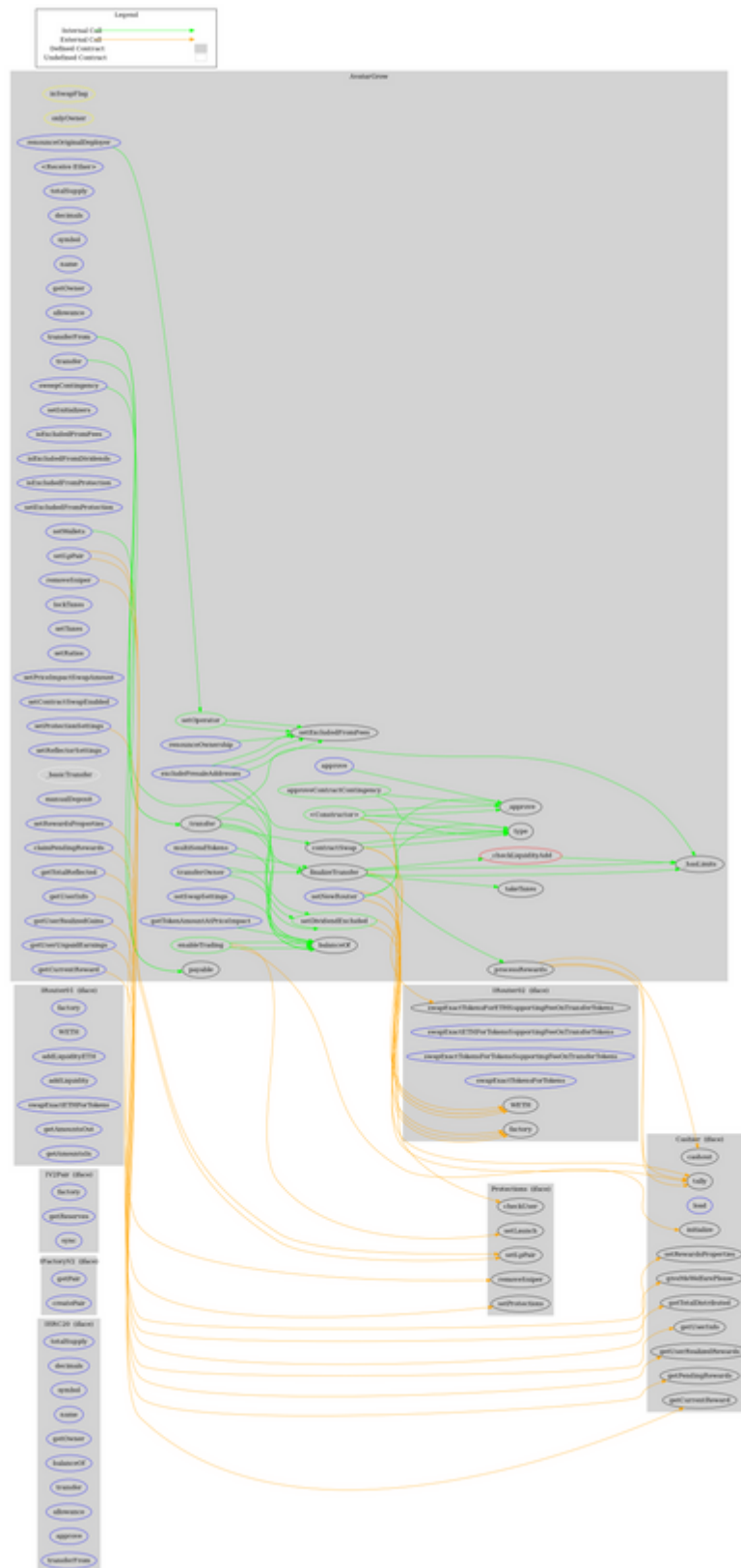
| Contract | Type | Bases | | |
|------------|-----------------------|------------|------------|-----------|
| | Function Name | Visibility | Mutability | Modifiers |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | decimals | External | | - |
| | symbol | External | | - |
| | name | External | | - |
| | getOwner | External | | - |
| | balanceOf | External | | - |
| | transfer | External | ✓ | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | | | | |
| IFactoryV2 | Interface | | | |
| | getPair | External | | - |
| | createPair | External | ✓ | - |
| | | | | |
| IV2Pair | Interface | | | |
| | factory | External | | - |
| | getReserves | External | | - |
| | sync | External | ✓ | - |
| | | | | |
| IRouter01 | Interface | | | |
| | factory | External | | - |
| | WETH | External | | - |
| | addLiquidityETH | External | Payable | - |
| | addLiquidity | External | ✓ | - |
| | swapExactETHForTokens | External | Payable | - |
| | getAmountsOut | External | | - |

| | | | | |
|--------------------|---|-----------|---------|-----------|
| | getAmountsIn | External | | - |
| | | | | |
| IRouter02 | Interface | IRouter01 | | |
| | swapExactTokensForETHSupportingFeeOnTransferTokens | External | ✓ | - |
| | swapExactETHForTokensSupportingFeeOnTransferTokens | External | Payable | - |
| | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | ✓ | - |
| | swapExactTokensForTokens | External | ✓ | - |
| | | | | |
| Protections | Interface | | | |
| | checkUser | External | ✓ | - |
| | setLaunch | External | ✓ | - |
| | setLpPair | External | ✓ | - |
| | setProtections | External | ✓ | - |
| | removeSniper | External | ✓ | - |
| | | | | |
| Cashier | Interface | | | |
| | setRewardsProperties | External | ✓ | - |
| | tally | External | ✓ | - |
| | load | External | Payable | - |
| | cashout | External | ✓ | - |
| | giveMeWelfarePlease | External | ✓ | - |
| | getTotalDistributed | External | | - |
| | getUserInfo | External | | - |
| | getUserRealizedRewards | External | | - |
| | getPendingRewards | External | | - |
| | initialize | External | ✓ | - |
| | getCurrentReward | External | | - |
| | | | | |
| AvatarGrow | Implementation | IERC20 | | |
| | <Constructor> | Public | Payable | - |
| | transferOwner | External | ✓ | onlyOwner |
| | renounceOwnership | External | ✓ | onlyOwner |
| | setOperator | Public | ✓ | - |

| | | | | |
|--|-----------------------------|----------|---------|-----------|
| | renounceOriginalDeployer | External | ✓ | - |
| | <Receive Ether> | External | Payable | - |
| | totalSupply | External | | - |
| | decimals | External | | - |
| | symbol | External | | - |
| | name | External | | - |
| | getOwner | External | | - |
| | balanceOf | Public | | - |
| | allowance | External | | - |
| | approve | External | ✓ | - |
| | _approve | Internal | ✓ | |
| | approveContractContingency | Public | ✓ | onlyOwner |
| | transfer | External | ✓ | - |
| | transferFrom | External | ✓ | - |
| | setNewRouter | External | ✓ | onlyOwner |
| | setLpPair | External | ✓ | onlyOwner |
| | setInitializers | External | ✓ | onlyOwner |
| | isExcludedFromFees | External | | - |
| | isExcludedFromDividends | External | | - |
| | isExcludedFromProtection | External | | - |
| | setDividendExcluded | Public | ✓ | onlyOwner |
| | setExcludedFromFees | Public | ✓ | onlyOwner |
| | setExcludedFromProtection | External | ✓ | onlyOwner |
| | removeSniper | External | ✓ | onlyOwner |
| | setProtectionSettings | External | ✓ | onlyOwner |
| | setWallets | External | ✓ | onlyOwner |
| | lockTaxes | External | ✓ | onlyOwner |
| | setTaxes | External | ✓ | onlyOwner |
| | setRatios | External | ✓ | onlyOwner |
| | getTokenAmountAtPriceImpact | External | | - |
| | setSwapSettings | External | ✓ | onlyOwner |
| | setPriceImpactSwapAmount | External | ✓ | onlyOwner |
| | setContractSwapEnabled | External | ✓ | onlyOwner |
| | setRewardsProperties | External | ✓ | onlyOwner |

| | | | | |
|--|-------------------------|----------|---|------------|
| | setReflectorSettings | External | ✓ | onlyOwner |
| | excludePresaleAddresses | External | ✓ | onlyOwner |
| | _hasLimits | Internal | | |
| | _basicTransfer | Internal | ✓ | |
| | _transfer | Internal | ✓ | |
| | contractSwap | Internal | ✓ | inSwapFlag |
| | _checkLiquidityAdd | Private | ✓ | |
| | enableTrading | Public | ✓ | onlyOwner |
| | finalizeTransfer | Internal | ✓ | |
| | processRewards | Internal | ✓ | |
| | takeTaxes | Internal | ✓ | |
| | multiSendTokens | External | ✓ | onlyOwner |
| | manualDeposit | External | ✓ | onlyOwner |
| | sweepContingency | External | ✓ | onlyOwner |
| | claimPendingRewards | External | ✓ | - |
| | getTotalReflected | External | | - |
| | getUserInfo | External | | - |
| | getUserRealizedGains | External | | - |
| | getUserUnpaidEarnings | External | | - |
| | getCurrentReward | External | | - |

Contract Flow



Domain Info

| | |
|-------------------------------|---|
| Domain Name | avatargrow.com |
| Registry Domain ID | 2731063139_DOMAIN_COM-VRSN |
| Creation Date | 2022-10-10T15:26:20Z |
| Updated Date | 2022-10-10T15:26:29Z |
| Registry Expiry Date | 2023-10-10T15:26:20Z |
| Registrar WHOIS Server | whois.ownregistrar.com |
| Registrar URL | http://www.ownregistrar.com |
| Registrar | OwnRegistrar, Inc. |
| Registrar IANA ID | 1250 |

The domain was created 3 days before the creation of the audit. It will expire in 12 months.

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

Summary

AvatarGrow Token is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is a limit of max 20% for sell and buy transactions. There is also a limit of 6% transferFee.

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About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

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.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>