



Cyberscope

Audit Report

Axeman Legends Gold

September 2022

Type BEP20

Network BSC

Address 0x39Ad15c6Cd91Dc10d7cd35B811d2753d7D659b57

Audited by © cyberscope

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Contract Review

| | |
|-------------------------|---|
| Contract Name | AxemanLegendsGold |
| Compiler Version | v0.8.17+commit.8df45f5f |
| Optimization | 5000 runs |
| Licence | MIT |
| Explorer | https://bscscan.com/token/0x39Ad15c6Cd91Dc10d7cd35B811d2753d7D659b57 |
| Symbol | AGOLD |
| Decimals | 18 |
| Total Supply | 1,000,000 |
| Domain | https://axemanlegends.com |

Source Files

| | |
|---------------------|--|
| Filename | SHA256 |
| contract.sol | eb5e14a4260300620878196f8eba75dce5cb0916206f9645f67ba3be9de58b86 |

Audit Updates

| | |
|----------------------|--|
| Initial Audit | 19th September 2022 https://github.com/cyberscope-io/audits/blob/main/agold/v1/audit.pdf |
| Corrected | 21st September 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 |
|----------|------|--|------------|
| ● | CO | Code Optimization | Unresolved |
| ● | L01 | Public Function could be Declared External | Unresolved |
| ● | L04 | Conformance to Solidity Naming Conventions | Unresolved |
| ● | L07 | Missing Events Arithmetic | Unresolved |
| ● | L12 | Using Variables before Declaration | Unresolved |
| ● | L14 | Uninitialized Variables in Local Scope | Unresolved |

CO - Code Optimization

| | |
|--------------------|---------------------|
| Criticality | minor / informative |
| Location | contract.sol#L510 |
| Status | Unresolved |

Description

There are code segments that could be optimized. A segment may be optimized so that it becomes a smaller size, consumes less memory, executes more rapidly, or performs fewer operations.

```
bool success;  
(success,) = developmentWallet.call{value: address(this).balance, gas:  
35000}("");
```

Recommendation

Rewrite some code segments so the runtime will be more performant.

L01 - Public Function could be Declared External

| | |
|--------------------|---------------------------|
| Criticality | minor / informative |
| Location | contract.sol#L277,358,523 |
| Status | Unresolved |

Description

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

```
transfer  
getCirculatingSupply  
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#L141,123,140,33,124,121,366,138,132,120,157,139,122 |
| 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.

```
masterTaxDivisor
_decimals
maxTransferTaxes
WETH
_tTotal
_name
_antiBlock
maxBuyTaxes
_taxRates
...
```

Recommendation

Follow the Solidity naming convention.

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

L07 - Missing Events Arithmetic

| | |
|--------------------|-----------------------|
| Criticality | minor / informative |
| Location | contract.sol#L403,394 |
| 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.

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

Recommendation

Emit an event for critical parameter changes.

L12 - Using Variables before Declaration

| | |
|--------------------|---------------------|
| Criticality | minor / informative |
| Location | contract.sol#L552 |
| 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#L551,552 |
| Status | Unresolved |

Description

There 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

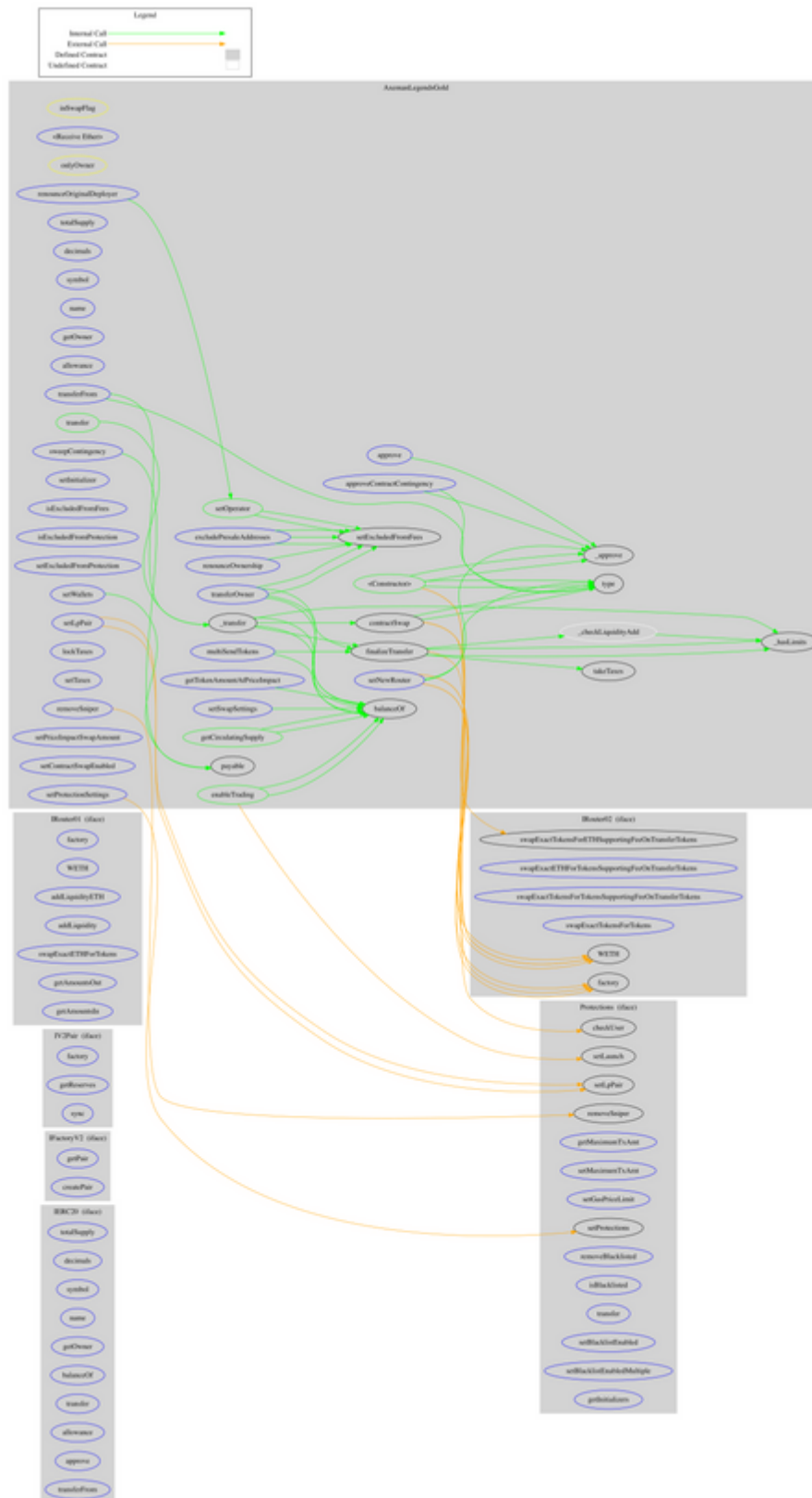
| Contract | Type | Bases | | |
|------------|-----------------------|------------|------------|-----------|
| | Function Name | Visibility | Mutability | Modifiers |
| IERC20 | Interface | | | |
| | totalSupply | External | | - |
| | decimals | External | | - |
| | symbol | External | | - |
| | name | 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 | ✓ | - |
| | setProtections | External | ✓ | - |
| | getMaximumTxAmt | External | | - |
| | setMaximumTxAmt | External | ✓ | - |
| | setGasPriceLimit | External | ✓ | - |
| | removeSniper | External | ✓ | - |
| | removeBlacklisted | External | ✓ | - |
| | isBlacklisted | External | | - |
| | transfer | External | ✓ | - |
| | setBlacklistEnabled | External | ✓ | - |
| | setBlacklistEnabledMultiple | External | ✓ | - |
| | getInitializers | External | ✓ | - |
| | | | | |
| AxemanLegendsGold | Implementation | IERC20 | | |
| | <Constructor> | Public | Payable | - |
| | <Receive Ether> | External | Payable | - |
| | transferOwner | External | ✓ | onlyOwner |
| | renounceOwnership | External | ✓ | onlyOwner |
| | setOperator | Public | ✓ | - |
| | renounceOriginalDeployer | External | ✓ | - |
| | totalSupply | External | | - |
| | decimals | External | | - |

| | | | | |
|--|-----------------------------|----------|---|------------|
| | symbol | External | | - |
| | name | External | | - |
| | getOwner | External | | - |
| | allowance | External | | - |
| | balanceOf | Public | | - |
| | transfer | Public | ✓ | - |
| | approve | External | ✓ | - |
| | _approve | Internal | ✓ | |
| | approveContractContingency | External | ✓ | onlyOwner |
| | transferFrom | External | ✓ | - |
| | setNewRouter | External | ✓ | onlyOwner |
| | setLpPair | External | ✓ | onlyOwner |
| | setInitializer | External | ✓ | onlyOwner |
| | isExcludedFromFees | External | | - |
| | isExcludedFromProtection | External | | - |
| | setExcludedFromFees | Public | ✓ | onlyOwner |
| | setExcludedFromProtection | External | ✓ | onlyOwner |
| | getCirculatingSupply | Public | | - |
| | removeSniper | External | ✓ | onlyOwner |
| | setProtectionSettings | External | ✓ | onlyOwner |
| | lockTaxes | External | ✓ | onlyOwner |
| | setTaxes | External | ✓ | onlyOwner |
| | setWallets | External | ✓ | onlyOwner |
| | getTokenAmountAtPriceImpact | External | | - |
| | setSwapSettings | External | ✓ | onlyOwner |
| | setPriceImpactSwapAmount | External | ✓ | onlyOwner |
| | setContractSwapEnabled | External | ✓ | onlyOwner |
| | excludePresaleAddresses | External | ✓ | onlyOwner |
| | _hasLimits | Internal | | |
| | _transfer | Internal | ✓ | |
| | contractSwap | Internal | ✓ | inSwapFlag |
| | _checkLiquidityAdd | Internal | ✓ | |
| | enableTrading | Public | ✓ | onlyOwner |
| | sweepContingency | External | ✓ | onlyOwner |
| | multiSendTokens | External | ✓ | onlyOwner |

| | | | | |
|--|------------------|----------|---|--|
| | finalizeTransfer | Internal | ✓ | |
| | takeTaxes | Internal | ✓ | |

Contract Flow



Domain Info

| | |
|-------------------------------|---|
| Domain Name | axemanlegends.com |
| Registry Domain ID | 2723656341_DOMAIN_COM-VRSN |
| Creation Date | 2022-09-06T23:00:14.00Z |
| Updated Date | 0001-01-01T00:00:00.00Z |
| Registry Expiry Date | 2023-09-06T23:00:14.00Z |
| Registrar WHOIS Server | whois.namecheap.com |
| Registrar URL | http://www.namecheap.com |
| Registrar | NAMECHEAP INC |
| Registrar IANA ID | 1068 |

The domain was created 13 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

Axeman Legends Gold 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 also a limit of max 12% fees. All the fees are liquidated to a team's address.

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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>