



Cyberscope

# Audit Report

## **Alkebuland**

July 2022

Type           BEP20

Network       BSC

Address       0xa6ff2c209c032f443efc03a848c16219dc474b78

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## Contract Review

<b>Contract Name</b>	AntiBotStandardToken
<b>Compiler Version</b>	v0.8.4+commit.c7e474f2
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0xa6ff2c209c032f443efc03a848c16219dc474b78">https://bscscan.com/token/0xa6ff2c209c032f443efc03a848c16219dc474b78</a>
<b>Symbol</b>	AKLD
<b>Decimals</b>	18
<b>Total Supply</b>	2,500,000,000
<b>Domain</b>	alkebuland.io

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	018174c70f79aa836fc246f8ee7d0890eb3883c1b40148388f8eaff14c97b391

## Audit Updates

<b>Initial Audit</b>	13th July 2022
<b>Corrected</b>	

# Contract Analysis

● Critical   ● Medium   ● Minor   ● Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

## BC - Blacklisted Contracts

**Criticality**

minor

**Location**

contract.sol#L725

### Description

The contract owner has the authority to stop contracts from transactions. The owner may take advantage of it by calling the `blacklistAddress` function.

```
if (enableAntiBot) {  
    pinkAntiBot.onPreTransferCheck(sender, recipient, amount);  
}
```

### 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 temporarily locking the contract or renouncing ownership.

# Contract Diagnostics

● Critical    ● Medium    ● Minor

Severity	Code	Description
●	US	Untrusted Source
●	STC	Succeeded Transfer Check
●	CO	Code Optimization
●	L01	Public Function could be Declared External
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination

## US - Untrusted Source

**Criticality**

minor

**Location**

contract.sol#L482

### Description

The contract uses an external contract in order to determine the transaction's flow. The external contract is untrusted. As a result it may produce security issues and harm the transactions.

```
IPinkAntiBot public pinkAntiBot;
```

### Recommendation

The contract should use a trusted external source. A trusted source could be either a commonly recognized or an audited contract. The pointing addresses should not be able to change after the initialization.



## STC - Succeeded Transfer Check

**Criticality**

minor

**Location**

contract.sol#L510

### Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
payable(serviceFeeReceiver_).transfer(serviceFee_);
```

### Recommendation

The contract should check if the result of the transfer methods is successful.

## CO - Code Optimization

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L768

### 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.

This code segment can be optimized by removing. The `_burn` function is not used on contract implementation.

```
function _burn(address account, uint256 amount) internal virtual {
    require(account != address(0), "ERC20: burn from the zero address");

    _beforeTokenTransfer(account, address(0), amount);

    _balances[account] = _balances[account].sub(
        amount,
        "ERC20: burn amount exceeds balance"
    );
    _totalSupply = _totalSupply.sub(amount);
    emit Transfer(account, address(0), amount);
}
```

### Recommendation

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

## L01 - Public Function could be Declared External

**Criticality**

minor

**Location**

contract.sol#L626,165,548,655,682,586,573,524,516,173,541,555,603

### Description

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

```
approve  
balanceOf  
decimals  
transferOwnership  
name  
symbol  
transfer  
allowance  
decreaseAllowance  
...
```

### Recommendation

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

## L04 - Conformance to Solidity Naming Conventions

**Criticality**

minor

**Location**

contract.sol#L509

### 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.

```
_enable
```

### Recommendation

Follow the Solidity naming convention.

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

## L09 - Dead Code Elimination

**Criticality**

minor

**Location**

contract.sol#L809,764

### Description

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

```
_burn  
_setupDecimals
```

### Recommendation

Remove unused functions.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<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>IPinkAntiBot</b>	Interface			
	setTokenOwner	External	✓	-
	onPreTransferCheck	External	✓	-
<b>BaseToken</b>	Implementation			
<b>AntiBotStandardToken</b>	Implementation	IERC20, Ownable, BaseToken		
	<Constructor>	Public	Payable	-
	setEnableAntiBot	External	✓	onlyOwner
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_setupDecimals	Internal	✓	
	_beforeTokenTransfer	Internal	✓	

# Contract Flow





## Domain Info

<b>Domain Name</b>	alkebuland.io
<b>Registry Domain ID</b>	340c4a0e24e548cfaa7c01ab314e362b-DONUTS
<b>Creation Date</b>	2022-06-20T22:39:47Z
<b>Updated Date</b>	2022-06-25T22:39:55Z
<b>Registry Expiry Date</b>	2023-06-20T22:39:47Z
<b>Registrar WHOIS Server</b>	whois.namecheap.com
<b>Registrar URL</b>	<a href="https://www.namecheap.com/">https://www.namecheap.com/</a>
<b>Registrar</b>	NameCheap, Inc.
<b>Registrar IANA ID</b>	1068

The domain has been created in 11 months before the creation of the audit.

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

## Summary

The Smart Contract analysis reported one minor severity issue. The contract owner has the authority to blacklist addresses. In addition, the IPinkAntiBot contract is out of the audit's scope. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

## Disclaimer

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The Cyberscope team disclaims any liability for the resulting losses.

## 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>