



Cyberscope

Audit Report

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February 2023

SHA256 75ee9bb861d71b351440fd98a18e61ae031cc40c7605437a5414848a4cd0928d

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Review

Audit Updates

Initial Audit	20 Feb 2023
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Source Files

Filename	SHA256
WARC.sol	75ee9bb861d71b351440fd98a18e61ae0 31cc40c7605437a5414848a4cd0928d

Introduction

The WARC contract implements a token mechanism. It allows users to deposit and withdraw Ether, and provides functionalities for token transfers and approvals. The contract defines several public functions such as `deposit()`, `withdraw()`, `approve()`, `transfer()`, and `transferFrom()`, which can be called by users to interact with the contract.

Diagnostics

● Critical ● Medium ● Minor / Informative

Severity	Code	Description	Status
●	L02	State Variables could be Declared Constant	Unresolved

L02 - State Variables could be Declared Constant

Criticality	Minor / Informative
Location	WARC.sol#L6,7,8
Status	Unresolved

Description

State variables can be declared as constant using the constant keyword. This means that the value of the state variable cannot be changed after it has been set. Additionally, the constant variables decrease gas consumption of the corresponding transaction.

```
string public name      = "Wrapped ARC"  
string public symbol    = "WARC"  
uint8  public decimals = 18
```

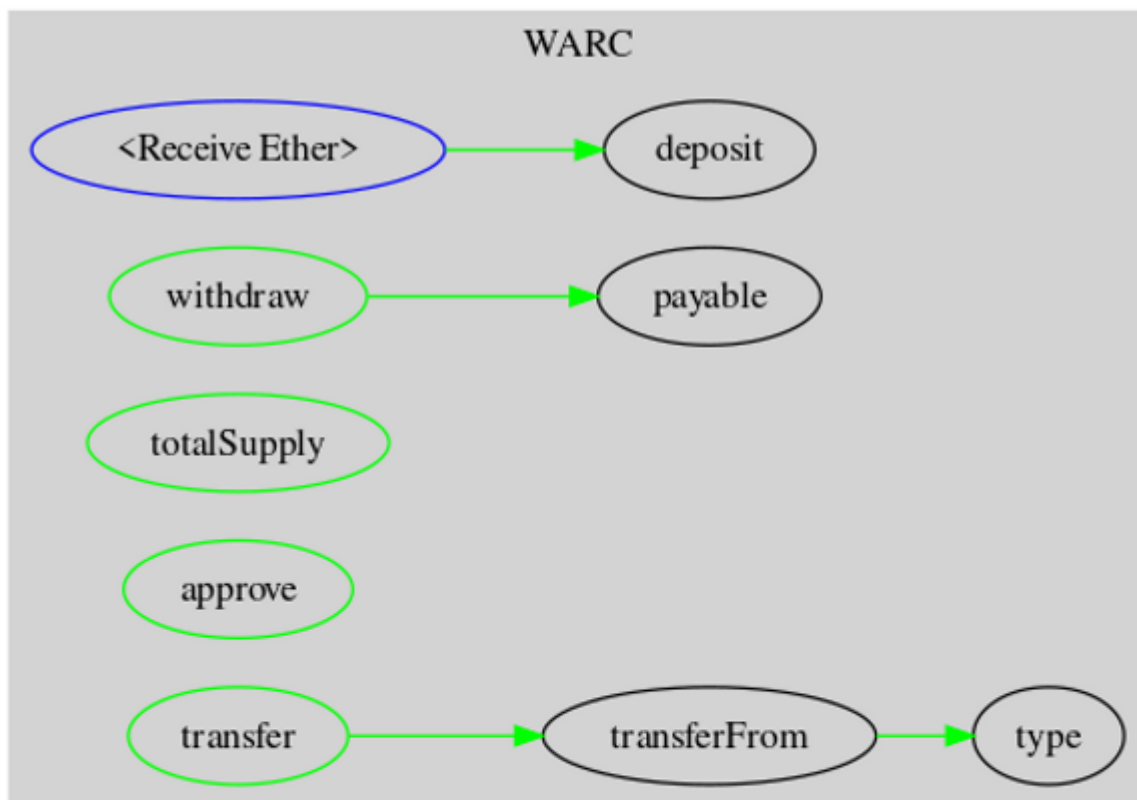
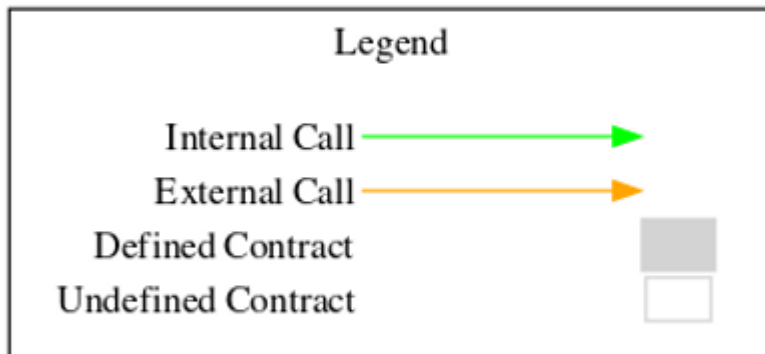
Recommendation

Constant state variables can be useful when the contract wants to ensure that the value of a state variable cannot be changed by any function in the contract. This can be useful for storing values that are important to the contract's behavior, such as the contract's address or the maximum number of times a certain function can be called. The team is advised to add the constant keyword to state variables that never change.

Functions Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
WARC	Implementation			
		External	Payable	-
	deposit	Public	Payable	-
	withdraw	Public	✓	-
	totalSupply	Public		-
	approve	Public	✓	-
	transfer	Public	✓	-
	transferFrom	Public	✓	-

Flow Graph



Summary

WARC contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements.

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Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

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