BULLDOG Token

Code Security Assessment

PREPARED BY:

THE AUDIT INSTITUTE ANALYST TEAM

PREPARED FOR:

THE BULLDOG TEAM

PREPARED ON:

MARCH 22ND 2021



Report Version 1.0

Table of Contents

DISCLAIMER	3
What is included in a report by <i>The Audit Institute</i> ?	3
OVERVIEW	4
Project Summary Summary of Findings	4
EXECUTIVE SUMMARY	5
CONTRACTS IN SCOPE	5
EXTERNAL VULNERABILITY FINDINGS	6
	6
INHERITANCE GRAPH	7
CONTROL FLOW	8
FUNCTIONS OVERVIEW	10
END OF REPORT	10
COPYRIGHT 2021 © THE AUDIT INSTITUTE LLC	10





The Audit Institute Reports are not, nor should be considered, an "endorsement" or "disapproval" of any particular project or team. These reports are not, nor should be considered, an indication of the economics or value of any "product" or "asset" created by any team or project that contracts The Audit Institute to perform a security review.

The Audit Institute Reports do not provide any warranty or guarantee regarding the absolute bugfree nature of the technology analyzed, nor do they provide any indication of the technology's proprietors, business, business model or legal compliance.

The Audit Institute Reports should not be used in any way to make decisions around investment or involvement with any particular project. These reports in no way provide investment advice, nor should be leveraged as investment advice of any sort.

The Audit Institute Reports represent an extensive auditing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

Blockchain technology and cryptographic assets present a high level of ongoing risk. The Audit Institute's position is that each company and individual are responsible for their own due diligence and continuous security. The Audit Institute's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies, and in no way claims any guarantee of security or functionality of the technology we agree to analyze. View our full legal terms and conditions at https://audit.institute/

What is included in a report by *The Audit Institute*?

- A document describing the detailed analysis of a particular piece(s) of source code provided to The Audit Institute by a Client.
- An organized collection of testing results, analysis and inferences made about the structure, implementation and overall best practices of a particular piece of source code.
- Representation that a Client of The Audit Institute has indeed completed a round of auditing with the intention to increase the quality of the company/product's IT infrastructure and or source code.



Project Summary



Project Name & Website BULLDOG Token - https://bulldogtoken.com/

Project Description BULLDOG Token is the Premier Puppy Appreciation Platform

with the goal of supporting animal shelters across the globe. The token contract contains standard ERC20 functionality. The total token supply is 100,000,000 BDOG.

Platform Ethereum, Solidity

Compiler Version v0.6.2

Mainnet Address <u>0x92416e32042c9e67B0771A1b00Bcdf92EcB64950</u>

Delivery Date March 22nd 2021

Method of Audit Static Analysis, Fuzzing, Manual Review

Consultants Engaged 2

Summary of Findings

Critical 0

Medium 0

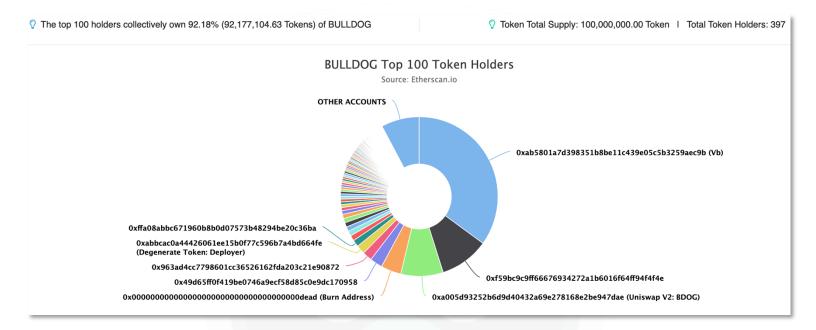
Informational 0

Total Issues 0



This Audit Report exclusively covers the analysis that was conducted on the BULLDOG Token contract written in Solidity. BULLDOG Token is the Premier Puppy Appreciation Platform with the goal of supporting animal shelters across the globe. The token contract contains standard ERC20 functionality.

BULLDOG Token (BDOG) uses 18 decimals and currently has a total supply of 100,000,000 tokens. At the time of writing this report, 8.68% of that supply is in the Uniswap v2 LP and 4.17% has been sent to the burn address. Also, it appears that 35% of the total token supply has been sent to Vitalik Buterin.



Disclosed in the report below is a full analytical review of the BULLDOG Token contract after undergoing various test scenarios and code review. Our findings based on the token contract alone were very limited, in fact, the team did not have any notable recommendations regarding any vulnerabilities.

Contracts in Scope

CONTRACT NAME

CONTRACT DESCRIPTION

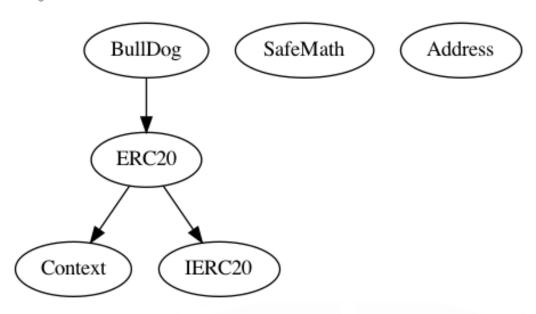
BullDog.sol

The BULLDOG Token Contract

Vulnerability Category	Notes	Results
Arbitrary Storage Write	N/A	PASS
Arbitrary Jump	N/A	PASS
Delegate Call to Untrusted Contract	N/A	PASS
Dependence on Predictable Variables	N/A	PASS
Deprecated Opcodes	N/A	PASS
Ether / Token Loss	N/A	PASS
Exceptions	N/A	PASS
External Calls	N/A	PASS
External Service Providers	N/A	PASS
Flash Loans	N/A	PASS
Inconsistent Emission of Events	N/A	PASS
Integer Over/Underflow	N/A	PASS
Multiple Sends	N/A	PASS
Oracles	N/A	PASS
Reentrancy Issues	N/A	PASS
Unchecked Retval	N/A	PASS
Suicide	N/A	PASS
State Change External Calls	N/A	PASS
Unchecked Retval	N/A	PASS

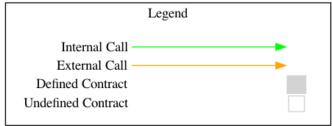


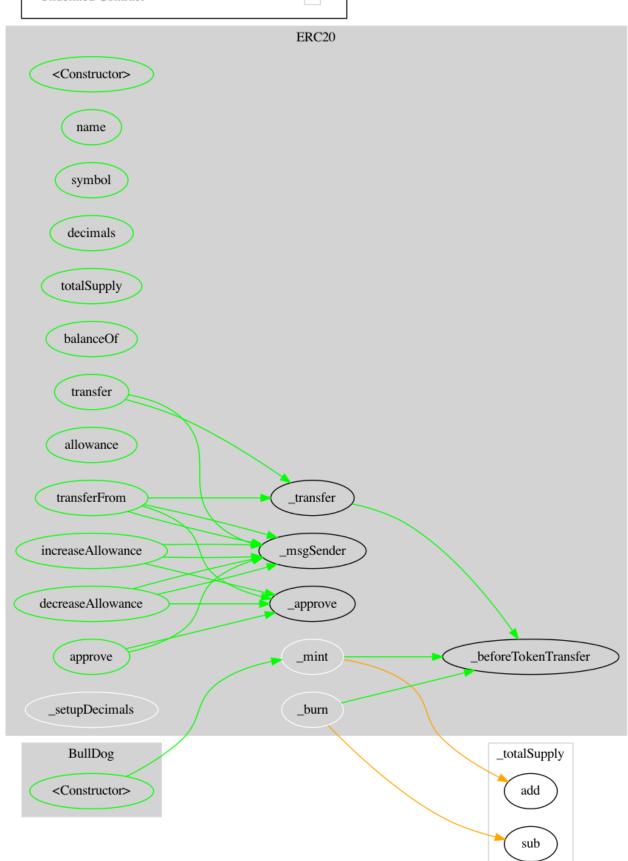
Inheritance Graph

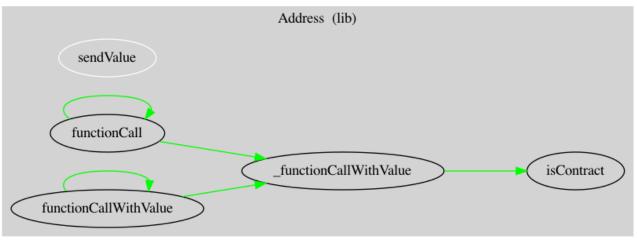


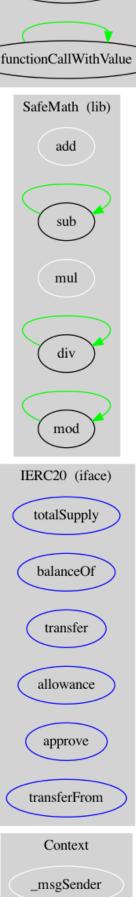














(\$) = payable function # = non-constant function Int = Internal Ext = External Pub = Public

+ Context

- [Int] _msgSender
- [Int] _msgData

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

+ [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] _functionCallWithValue #

+ ERC20 (Context, IERC20)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _approve #
- [Int] _setupDecimals #
- [Int] _beforeTokenTransfer #

+ BullDog (ERC20)

- [Pub] <Constructor> #

END OF REPORT

Copyright 2021 © The Audit Institute LLC www.Audit.Institute