

expelee

Building the Futuristic **Blockchain Ecosystem**

Security Audit Report FOR



BTCBG

OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks.

According to the smart contract audit:

 Audit Result	Passed
 KYC Verification	Not Done
 Audit Date	30 March 2023

PROJECT DESCRIPTION

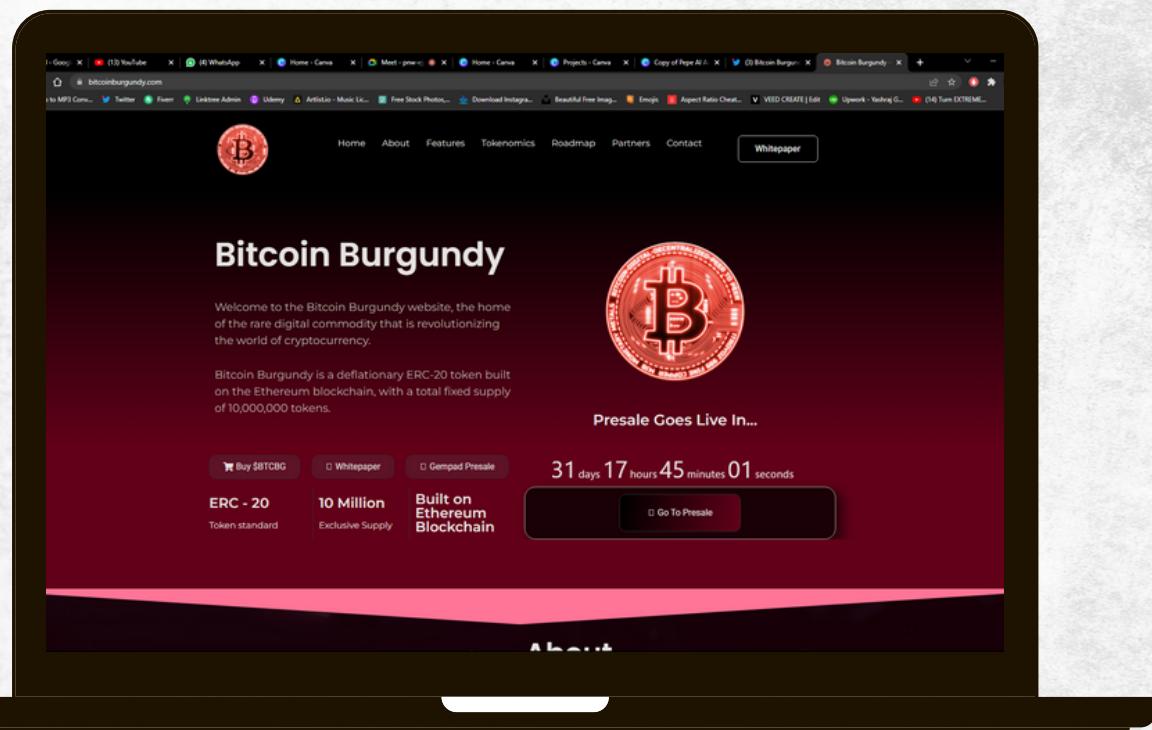
BTCBG

Bitcoin Burgundy is a deflationary ERC-20 token built on the Ethereum blockchain, with a total fixed supply of 10,000,000 tokens. The goal of the organization is to establish a long-term store of value for its users, incorporating a distinctive tokenomics structure that ensures a fair and equitable distribution of tokens, while also providing incentives for ongoing development and marketing initiatives.



Social Media Profiles

BTCBG



🌐 <https://www.bitcoinburgundy.com/>

Telegram: https://t.me/+dytF_Xe_NSdjZmYx

Twitter: <https://twitter.com/BitcoinBurgundy>

**It's always good to check the social profiles of the project,
before making your investment.**

-Team Expelee

CONTRACT DETAILS

Token Name

Bitcoin Burgundy

Symbol

BTCBG

Network

Ethereum

Language

Solidity

Contract Address (Verified)

Token Type

ERC20

Total Supply

10,000,000 (initial)

Contract SHA-256 Checksum:

f21614208705e207da7e5cc2d712488775bd2916

Owner's Wallet

--

Deployer's Wallet

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AUDIT METHODOLOGY



Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.



Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.



Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability



Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Complier
- Hardhat

FUNCTION OVERVIEW

Can Take Back Ownership	Not Detected
Owner Change Balance	Not Detected
Blacklist	Not Detected
Modify Fees	Not Detected
Proxy	Not Detected
Whitelisted	Not Detected
Anti Whale	Not Detected
Trading Cooldown	Not Detected
Transfer Pausable	Not Detected
Cannot Sell All	Not Detected
Hidden Owner	Not Detected
Mint	Not Detected

VULNERABILITY CHECKLIST

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

AUDIT SUMMARY

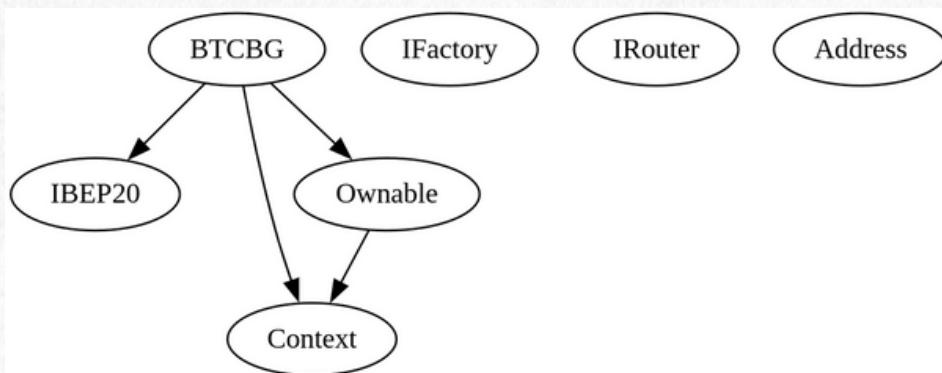
Used Tools:

The following tools were utilized to ensure the reliability and functionality of the code:

- 1. Manual Review:** The code underwent a thorough review process by the Expelee team, which involved analyzing the code line by line. This review helped to identify any potential issues or bugs that could impact the performance of the code.
- 2. BSC Test Network:** The code was tested extensively on the BSC Test network to ensure that it functions as intended. All tests were conducted using the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be accessed in the "Functional Tests" section of the report.

Overall, these tools were instrumental in identifying any potential issues and ensuring that the code functions as expected.

Inheritance Trees:



Summary:

-0.00025% of each buy/sell/transfer is burned until supply reach 5 mil tokens.

- Owner is not able to set buy/sell/transfer taxes higher than 12.5%
- Owner must enable trading for investors to be able to trade**
- Owner is not able to set max buy/sell/transfer/hold amount
- Owner is not able to blacklist an arbitrary wallet
- Owner is not able to disable trades
- Owner is not able to mint new tokens

Functional Tests

1- Adding liquidity (**passed**):

<https://testnet.bscscan.com/tx/0xd240d29e8dcb4aad202ed3c9993054699b2229f209fa0cea83768d64f55ef08>

2- Buying when excluded (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x69693569dfcb0b4519423e8acdd23135ac5207fef449dbb2bff904c0f617ccce>

3- Selling when excluded (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x368bd5e86e3876a0a650c0b0cd824260fc3cf75c91001e45cc7eaf024ba6a666>

4- Transferring when excluded from fees(0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xd6e41bb5f9c1cc4f0ef993bcf150ad7dbaa545519968b02e4ef5c49f3c42ef06>

5- Buying when not excluded from fees (1.00025% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x2fc339fadae1d8b3253fd2f4aff105b5b4d74850be904a7b10a68ee12e9211cd>

6- Selling when not excluded from fees (1.00025% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xa1b76a143aba3d085c18cf3a1117a0b8586a2eafdb3bb0fc5d8e70f4b995a1c4>

Functional Tests

7- Transferring when not excluded from fees (1.00025% tax) (passed):

<https://testnet.bscscan.com/tx/0x7a4c1aaa4c2853071d3bb0a70abf5168bc0932d7197746dd9da8b83ddd6bd854>

8- Burning (passed):

0.00025% of each transaction is burned until total supply reaches 5,000,000

<https://testnet.bscscan.com/token/0xf09a2a3fd8d37781b8c274fdb4b06731f8d0f864?>

a=0x00dead

MANUAL AUDIT

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to a methodology based on OWASP standards.

Vulnerabilities are divided into three primary risk categories: **high**, **medium**, and **low**.

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious Input Handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity				
Impact	HIGH	Medium	High	Critical
	MEDIUM	Low	Medium	High
	LOW	Note	Low	Medium
		LOW	MEDIUM	HIGH
Likelihood				

FINDINGS

- **High Risk Findings:** 1
 - **Medium Risk Findings:** 0
 - **Low Risk Findings:** 0
 - **Suggestions & discussion:** 0
 - **Gas Optimizations :** 0
-

High Risk Findings

Severity:

High

Function:

EnableTrading

Lines: ---

Status:

not resolved

Overview:

Tokens cannot be traded by investors unless the owner enables trading, which could lead to financial losses if trading remains disabled.

```
function EnableTrading() external onlyOwner {
    require(!tradingEnabled, "Cannot re-enable trading");
    tradingEnabled = true;
}
```

ABOUT EXPELEE

Expelee is a product-based aspirational Web3 Start-up. Coping up with numerous solutions for blockchain Security and constructing a Web3 Ecosystem from Deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.



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Always Do your own research and protect yourselves from being scammed. The Expelee team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools.

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