



# SPYWOLF

## Security Audit Report



Audit prepared for  
**BNACoin Gold**

Completed on  
**October 1, 2024**

@SPYWOLFNETWORK



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SPYWOLF.CO





# OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

”

- SPYWOLF Team -





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# BNACoin Gold



## PROJECT DESCRIPTION:

BNACoin (BNA) is an innovative project based on artificial intelligence, quantitative trading, and blockchain technology, which aims to transform the traditional financial and cryptocurrency markets by building a decentralized financial ecosystem.

Our goal is to provide an efficient, secure and intelligent solution that helps users achieve asset management, quantitative trading, cross-chain exchange and other functions.

The BNA project includes not only BNACoin tokens, but also an exclusive public chain, wallet, decentralized communication (BNASwap) and other key components to build a complete digital asset ecosystem.

**Release Date:** TBA

**Launchpad:** Fairlaunch

**Category:** DeFi





# KEY RESULTS

Cannot mint new tokens	PASSED
Cannot pause trading (honeypot)	PASSED
Cannot blacklist an address	PASSED
Cannot raise taxes over 25%?	PASSED
No proxy contract detected	PASSED
Not required to enable trading	PASSED
No hidden ownership	PASSED
Cannot change the router	PASSED
No cooldown feature found	PASSED
Bot protection delay is lower than 5 blocks	PASSED
Cannot set max tx amount below 0.05% of total supply	PASSED
The contract cannot be self-destructed by owner	PASSED

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

\*Only new deposits/reinvestments can be paused





# CONTRACT INFO

Token Name  
BNAcoin

Symbol  
BNA

Contract Address  
0x00Db8321C431B62A6d42979Ed4A5D0f3661c959e

Network  
BSC

Language  
Solidity

Deployment Date  
Oct 1, 2024

Contract Type  
Dividend Token

Total Supply  
200,000,000

Decimals  
18

## TAXES

Buy Tax  
**4%**

Sell Tax  
**4%**

\*Taxes cannot be changed



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Last transaction time	2024-10-01 09:44:32 UTC
Deployment Date	2024-10-01 09:44:32 UTC
Create TX	0x993fed442b9f5ced9db814090845588b66be4542327287464256b0679ec7718d
Owner	0x00
Deployer	0xD21bC6fe3AdD547cb21Db1811C5E1E82886BD6E8

# TOKEN TRANSFERS STATS

Transfer Count	1
Total Amount	200000000 BNA
Median Transfer Amount	200000000 BNA
Average Transfer Amount	200000000 BNA
First transfer date	2024-10-01
Last transfer date	2024-10-01
Days token transferred	1 Day



# FEATURED WALLETS

Owner address	Ownership is renounced 0x00
Marketing fee receiver	0x6FDD35eD2a225097D95d93aA14bE8eecd6d821cE
LP address	Liquidity is not added yet

# TOP 3 UNLOCKED WALLETS

100%	Same as deployer Tokens are not distributed yet 0x6FDD35eD2a225097D95d93aA14bE8eecd6d821cE
unavailable	
unavailable	





# VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed



# VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



# VULNERABILITY ANALYSIS

## NO ERRORS FOUND



# MANUAL CODE REVIEW

---

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 4 different threat levels.

## THREAT 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.

**Code Score: 90%**



# FOUND THREATS

## High Risk: 0

No high risk-level threats found in this contract.

## Medium Risk: 0

No medium risk-level threats found in this contract.

## Low Risk: 0

No low risk-level threats found in this contract.



# FOUND THREATS

## Informational: 2

Three new random holders are generated for each taxed token transfer. Random holders will hold small fraction of a token.

```
function _tokenTransfer(  
    address sender,  
    address recipient,  
    uint256 tAmount,  
    bool takeFee,  
    bool isSell  
) private {  
    .....  
    if (takeFee) {  
        if(airdropNumbs > 0){  
            address ad;  
            for (uint256 i = 0; i < airdropNumbs; i++) {  
                ad = address(  
                    uint160(  
                        uint256(  
                            keccak256(  
                                abi.encodePacked(i, tAmount, block.timestamp)  
                            )  
                        )  
                    )  
                );  
                _takeTransfer(sender, ad, 1);  
            }  
            tAmount -= airdropNumbs;  
        }  
    }  
    .....  
}  
  
uint256 private airdropNumbs;  
constructor() {  
    .....  
    airdropNumbs = 3;  
    .....  
}
```





# FOUND THREATS

## Informational

Fund address can withdraw any tokens from the contract. When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function claimBalance() external {  
    payable(fundAddress).transfer(address(this).balance);  
}  
  
function claimToken(address token, uint256 amount, address to) external {  
    require(fundAddress == msg.sender, "!Funder");  
    IERC20(token).transfer(to, amount);  
}
```



The following tokenomics are based on the project's whitepaper and/or website:

#### Tokenomics:

Ecosystem building - 30%,

Team & Consultants - 25%,

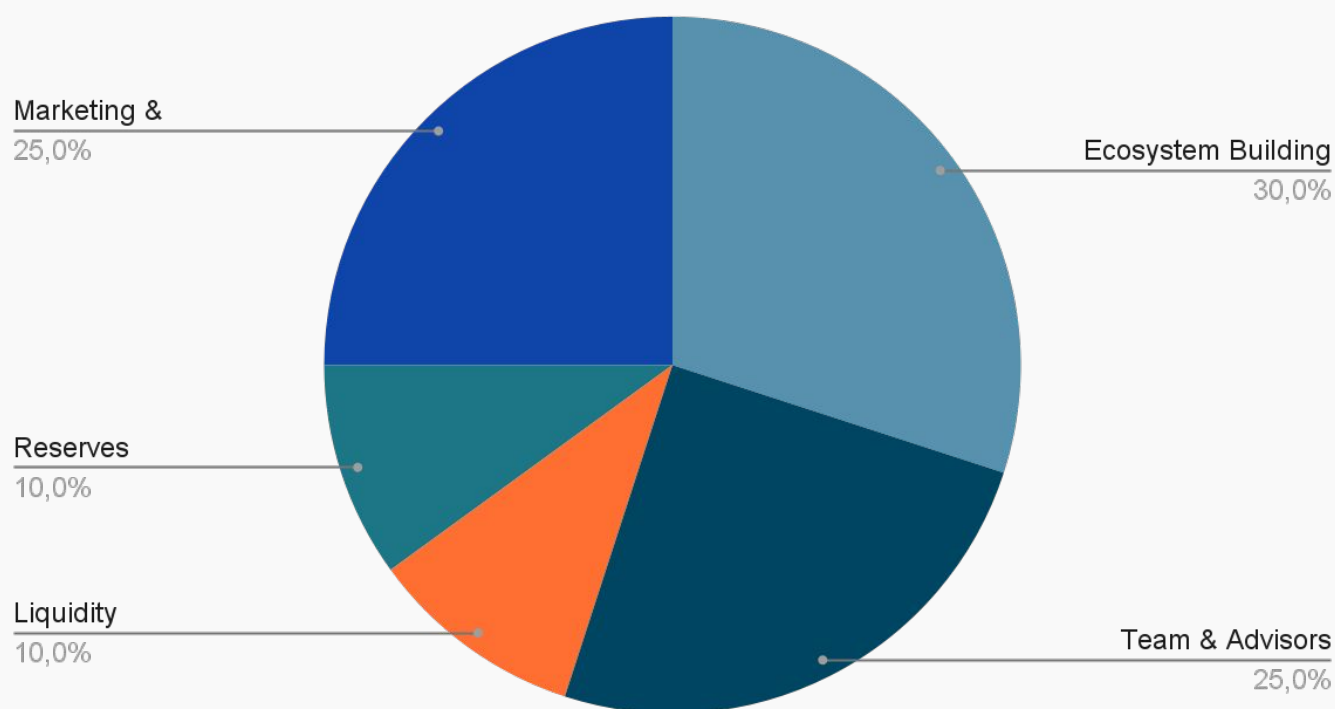
Marketing & Community - 25,

Liquidity - 10%,

Reserves - 10%,

### Token Distribution

Tokens distribution



TOKENOMICS



# WEBSITE

**Website URL:**  
unavailable

**Domain Registry**  
unavailable

**Domain Expiration**  
unavailable

**Technical SEO Test**  
Passed

**Security Test**  
Passed. SSL certificate present

**Design**  
unavailable

**Content**  
unavailable

**Whitepaper**  
Explanatory, poorly translated.

**Roadmap**  
Yes, goals set with time frames.

**Mobile-friendly?**  
Yes



**Website Score: 0%**



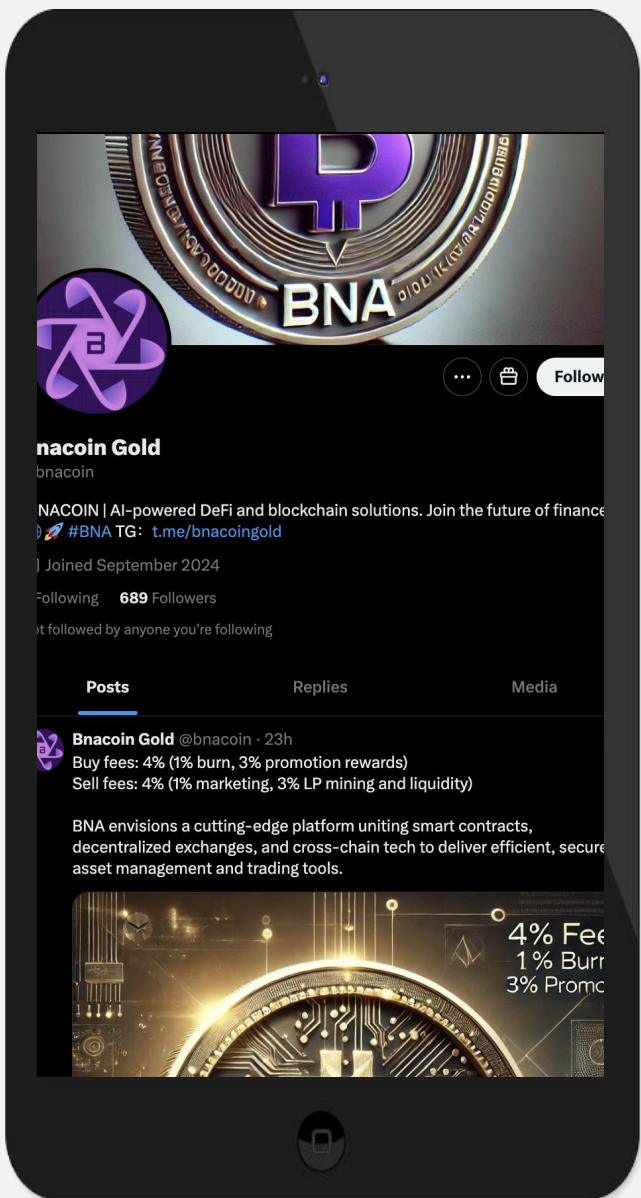
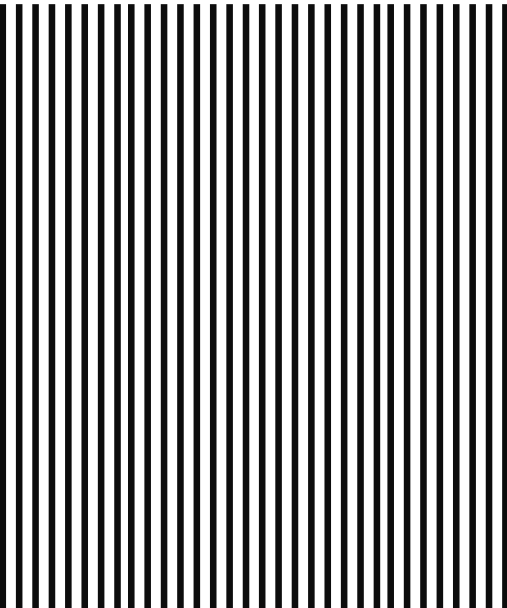
# SOCIAL MEDIA

Social Score: 100%



## ANALYSIS

Project's social media pages are active



Twitter:  
@bnacoin

- 614 followers
- Posts frequently
- Active



Discord  
unavailable



Telegram:  
@bnacoingold

- 209 members
- Active members
- Active mods



Medium  
unavailable



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 700 SUCCESSFUL CLIENTS
- ✓ MORE THAN 1000 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.