



SMART CONTRACT SECURITY AUDIT

Bot Invasions

February, 2022

Website: soken.io

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Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Our analysis contains following steps:

1. Project Analysis;

2. Manual analysis of smart contracts:

- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- Hashes of all transaction will be recorded
- Behaviour of functions and gas consumption is noted, as well.

3. Unit Testing:

- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

4. Automated Testing:

- Mythril
- Oyente
- Manticore
- Solgraph

Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

Token Contract Details for 12.02.2022

Contract Name: **BOTIN**

Deployed address: **0x1d98e9e2ca9e77d49f323796fD0016E20c2B77D6**

Total Supply: **100,000,000**

Token Tracker: **BOTIN**

Decimals: **18**

Token holders: **2**

Transactions count: **2**

Top 100 holders dominance: **100.00%**

Audit Details



Project Name: **Bot Invasions**

Language: **Solidity**

Compiler Version: **v0.8.7**

Blockchain: **BSC**

Social Profiles

Project Website: <https://botinvasions.com/>

Project Telegram: <https://t.me/Botinvasion>

Project Twitter: <https://twitter.com/Botinvasions>

Project Facebook: <https://www.facebook.com/Bot-Invasion-105056428768339>

Project Instagram: <https://www.instagram.com/botinvasion/>

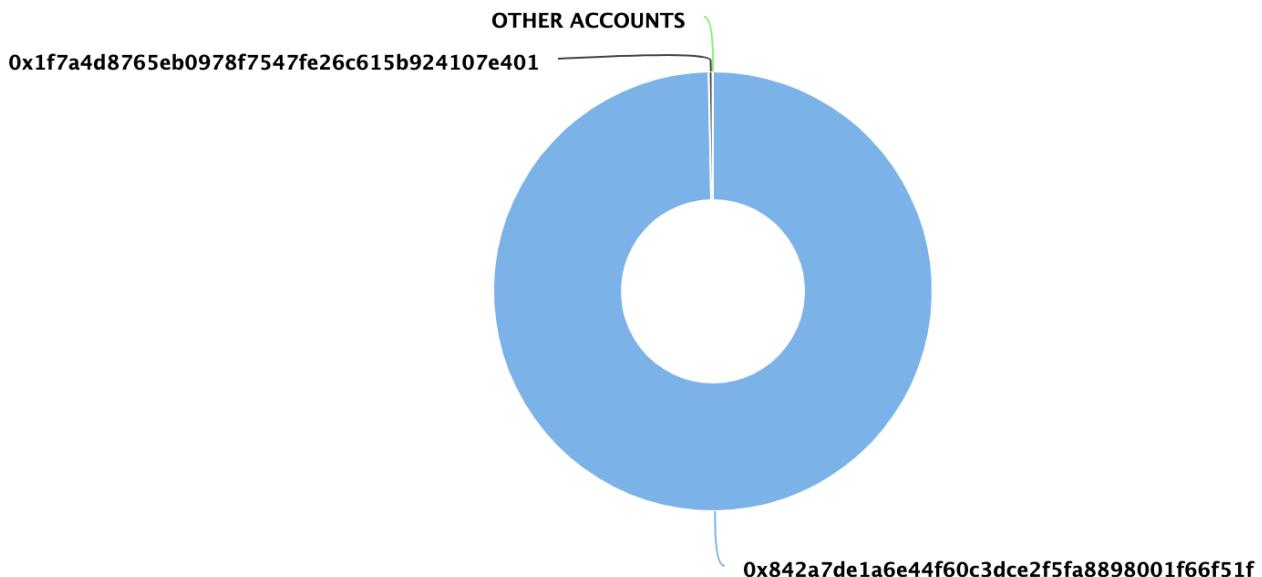
Project YouTube: <https://www.youtube.com/channel/UCsXtFCwWO6yhYPPj93h4GWQ>

Project Reddit: <https://linkedin.com/in/bot-invasions-302b18230/>

Contract Analytics



BOTIN Token Distribution



BOTIN Top Holders

Rank	Address	Quantity (Token)	Percentage
1	0x842a7de1a6e44f60c3dce2f5fa8898001f66f51f	99,700,000	99.7000%
2	0x1f7a4d8765eb0978f7547fe26c615b924107e401	300,000	0.3000%

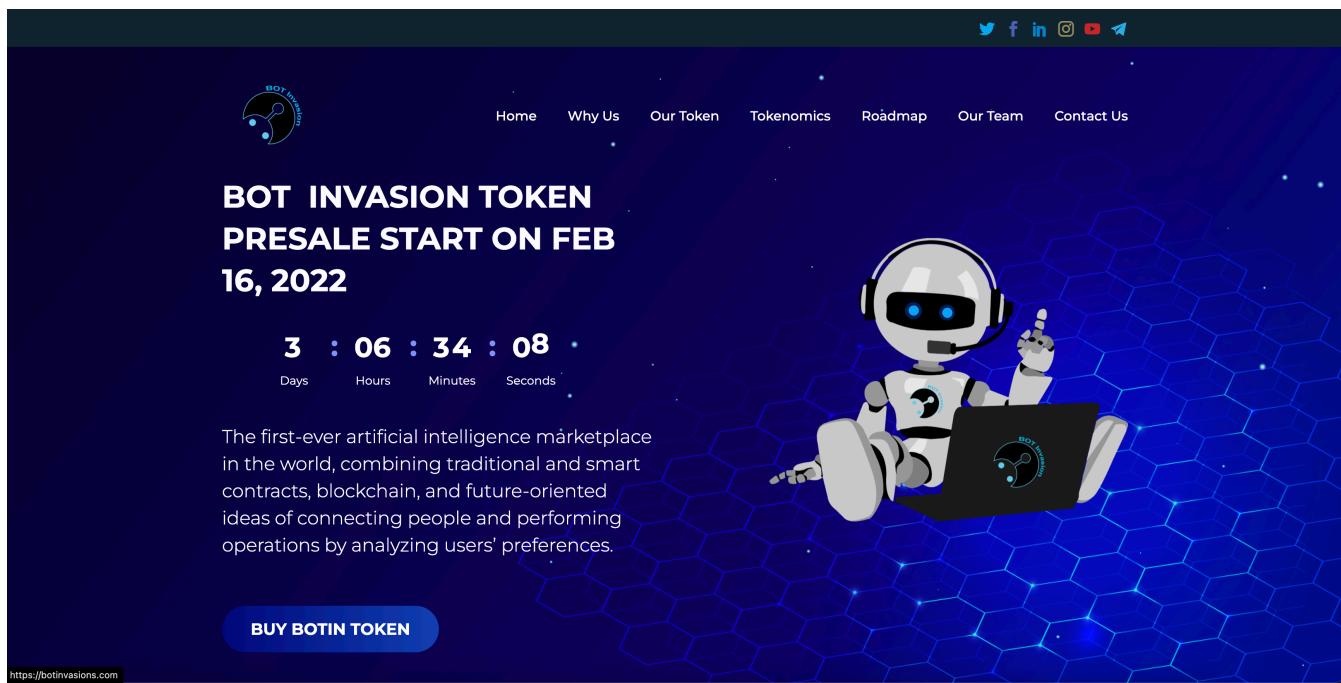
Contract Analysis

- ✓ Verified contract source
- ✗ No prior similar token contracts
- ✗ Source does not contain a max transaction amount
- ✗ Source does not contain a fee modifier
- ✗ Ownership renounced or source does not contain an owner contract.

Holder Analysis

- ✓ All other holders possess less than 10% of token supply

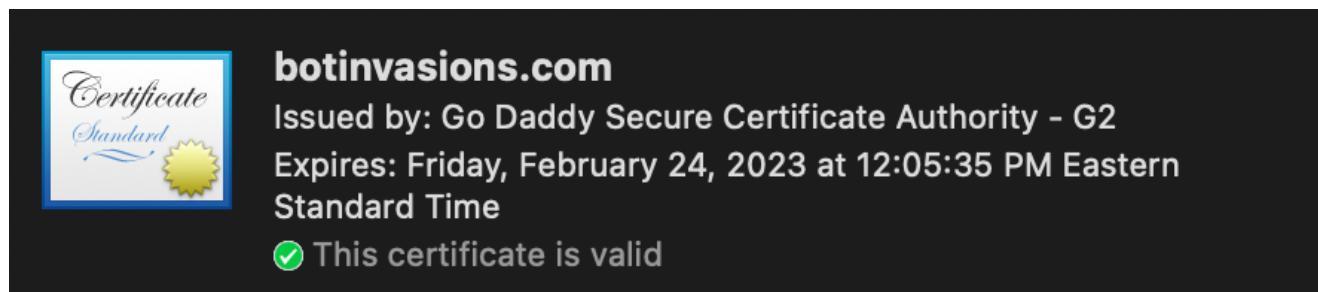
Project Website Overview



The screenshot shows the homepage of the Bot Invasion Token project. At the top, there's a navigation bar with links to Home, Why Us, Our Token, Tokenomics, Roadmap, Our Team, and Contact Us. Social media icons for Twitter, Facebook, LinkedIn, Instagram, YouTube, and Telegram are also present. The main header features a stylized robot head logo with the text "BOT INVASION TOKEN" and "PRESALE START ON FEB 16, 2022". Below this is a timer showing "3 : 06 : 34 : 08" (Days, Hours, Minutes, Seconds). A descriptive text block explains the project as "The first-ever artificial intelligence marketplace in the world, combining traditional and smart contracts, blockchain, and future-oriented ideas of connecting people and performing operations by analyzing users' preferences." A prominent blue button labeled "BUY BOTIN TOKEN" is located at the bottom left. The background features a dark blue hexagonal grid pattern.

- ✓ JavaScript errors hasn't been found.
- ✓ Malware pop-up windows hasn't been detected.
- ✓ No issues with loading elements, code, or stylesheets.

Project Website SSL Certification



The screenshot displays an SSL certificate for the domain botinvasions.com. The certificate is issued by Go Daddy Secure Certificate Authority - G2 and is valid until Friday, February 24, 2023, at 12:05:35 PM Eastern Standard Time. A green checkmark indicates that the certificate is valid. The certificate image includes the word "Certificate" and "Standard" with a gold seal.

Project Website Performance Audit

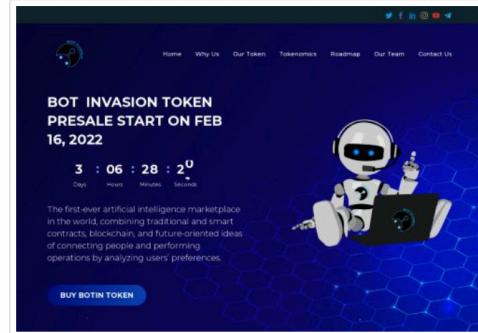
<https://botinvasions.com/>



Performance

Values are estimated and may vary. The [performance score](#) is calculated directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100



METRICS

[Expand view](#)

First Contentful Paint

0.9 s

Speed Index

2.5 s

Largest Contentful Paint

1.8 s

Time to Interactive

1.6 s

Total Blocking Time

0 ms

Cumulative Layout Shift

0.014

Project Website Optimization for Mobile

<https://botinvasions.com/>



Performance

Values are estimated and may vary. The [performance score](#) is calculated directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100



METRICS

[Expand view](#)

First Contentful Paint

3.6 s

Speed Index

10.9 s

Largest Contentful Paint

10.9 s

Time to Interactive

13.5 s

Total Blocking Time

2,300 ms

Cumulative Layout Shift

0.004

Whitepaper of the project

The whitepaper of Bot Invasion project has been verified on behalf of Soken team.



Whitepaper link: https://secureservercdn.net/160.153.137.99/x2k.612.myftpupload.com/wp-content/uploads/2022/02/whitepaper_01_page-0001-converted-compressed.pdf

Contract Function Details

- + Contract Source Code
 - [Int] _msgSender
 - [Int] _msgData
 - [Pub] owner
 - [Pub] renounceOwnership
 - [Pub] transferOwnership
 - [Pub] getUnlockTime
 - [Pub] lock
 - [Pub] unlock
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer
 - [Ext] allowance
 - [Ext] approve
 - [Ext] transferFrom
 - [Int] add
 - [Int] sub
 - [Int] sub
 - [Int] mul
 - [Int] div
 - [Int] div
 - [Int] mod
 - [Int] mod
 - [Int] isContract
 - [Int] sendValue
 - [Int] functionCall
 - [Int] functionCall
 - [Int] functionCallWithValue
 - [Int] functionCallWithValue
 - [Prv] _functionCallWithValue
 - [Ext] feeTo
 - [Ext] feeToSetter
 - [Ext] getPair
 - [Ext] allPairs
 - [Ext] allPairsLength
 - [Ext] createPair
 - [Ext] setFeeTo
 - [Ext] setFeeToSetter
 - [Ext] name
 - [Ext] symbol
 - [Ext] decimals
 - [Ext] totalSupply
 - [Ext] balanceOf

- [Ext] allowance
- [Ext] approve
- [Ext] transfer
- [Ext] transferFrom
- [Ext] DOMAIN_SEPARATOR
- [Ext] PERMIT_TYPEHASH
- [Ext] nonces
- [Ext] permit
- [Ext] MINIMUM_LIQUIDITY
- [Ext] factory
- [Ext] token0
- [Ext] token1
- [Ext] getReserves
- [Ext] price0CumulativeLast
- [Ext] price1CumulativeLast
- [Ext] kLast
- [Ext] burn
- [Ext] swap
- [Ext] skim
- [Ext] sync
- [Ext] initialize
- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity
- [Ext] addLiquidityETH
- [Ext] removeLiquidity
- [Ext] removeLiquidityETH
- [Ext] removeLiquidityWithPermit
- [Ext] removeLiquidityETHWithPermit
- [Ext] swapExactTokensForTokens
- [Ext] swapTokensForExactTokens
- [Ext] swapExactETHForTokens
- [Ext] swapTokensForExactETH
- [Ext] swapExactTokensForETH
- [Ext] swapETHForExactTokens
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn
- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens

- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer
- [Pub] allowance
- [Pub] approve
- [Pub] transferFrom
- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Pub] isExcludedFromReward
- [Pub] totalFees
- [Pub] deliver
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward
- [Ext] includeInReward
- [Prv] _transferBothExcluded
- [Prv] _reflectFee
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] _takeLiquidity
- [Prv] calculateTaxFee
- [Prv] calculateLiquidityFee
- [Prv] removeAllFee
- [Prv] restoreAllFee
- [Pub] isExcludedFromFee
- [Prv] _approve
- [Prv] _transfer
- [Prv] swapAndLiquify
- [Prv] swapTokensForEth
- [Prv] addLiquidity
- [Prv] _tokenTransfer
- [Prv] _transferStandard
- [Prv] takeBurn
- [Prv] takeDev
- [Prv] _transferToExcluded
- [Prv] _transferFromExcluded
- [Pub] excludeFromFee
- [Pub] includeInFee
- [Ext] setDevWallet

- [Ext] setDevFeePercent
- [Ext] setTaxFeePercent
- [Ext] setLiquidityFeePercent
- [Ext] setBurnFeePercent
- [Ext] setNumTokensSellToAddToLiquidity
- [Ext] setMaxTxAmount
- [Pub] setSwapAndLiquifyEnabled

Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

Security Issues

1) Owner Privileges

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behaviour (for example, disable selling or mint new tokens).

2) Volatile Code:

The return values of functions

`swapExactTokensForETHSupportingFeeOnTransferTokens` and

`addLiquidityETH` are not properly handled.

Recommendation:

We recommend using variables to receive the return value of the functions mentioned above and handle both success and failure cases if needed by the business logic.

Conclusion

Low-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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