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*Bring trust into your projects*

**Blockchain Security | Smart Contract Audits | KYC**

MADE IN GERMANY

# InfinitySquad

# Audit

**Security Assessment**

**09. April, 2022**

**For**



**Infinity Squad**

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Version	Date	Description
1.0	09. April 2022	<ul style="list-style-type: none"><li>• Layout project</li><li>• Automated- /Manual-Security Testing</li><li>• Summary</li></ul>

## **Network**

Binance Smart Chain (BEP20)

## **Website**

<https://infinitysquad.finance/>

## **Telegram**

<https://t.me/infinitysquadfinance>

## **Twitter**

<https://twitter.com/InfinitysquadF>



## Description

Welcome to InfinitySquad, a leap forward in Rewards Tokens. Offering our investors the Power of Choice, InfinitySquad gives investors the freedom to choose their own rewards. By holding the \$SQUAD token and connecting their wallet to our innovative dashboard, investors have the ability to choose to be rewarded in any token traded on PancakeSwap. From the BUSD stable coin to the most recently launched project, all at your fingertips. InfinitySquad investors have the flexibility to follow the latest market trends to guide their choice of rewards.

Backed by a powerful new contract, InfinitySquad offers investors security and peace of mind by including chart-protection functions such as:

Maximum Wallet Size, no wallet can have more than 1% of total supply.

Maximum Daily Transaction Limit, sells are limited to a maximum of \$2000 USD per 24 hr period per wallet.

10% rewards are paid to holders on every buy and sell transaction

5% burn on every sell transaction.

As well as our dashboard, InfinitySquad investors have access to our Farming and staking platform where rewards are paid out in BUSD rather than the native coin. This approach allows us to remove the sell pressure created by paying out rewards in our native token thereby ensuring a more stable chart. InfinitySwap, our swap feature, is convenient and offers low fees. Simple and easy to use.

Our team is dedicated to offering innovative features and protections in order to safeguard your investment. We will continue to innovate in order to bring more features and utilities in the future. Read on for more detailed information about our project and thank you for visiting us.

## Project Engagement

During the 7th of April 2022, **InfinitySquad Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

## Logo



## Contract Link v1.0

- <https://bscscan.com/address/0x7e483b27827a221c75858be1c79e3d8fb017d85b#writeContract>



# Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
<b>Critical</b>	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
<b>High</b>	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon as possible.
<b>Medium</b>	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
<b>Low</b>	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
<b>Informational</b>	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

# Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

## **Methodology**

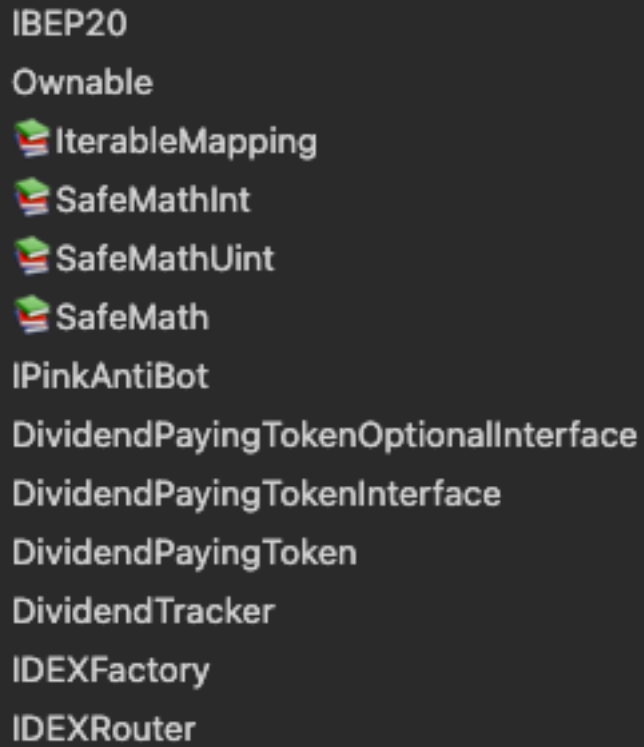
The auditing process follows a routine series of steps:

1. Code review that includes the following:
  - i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
  - ii) Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
2. Testing and automated analysis that includes the following:
  - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
  - ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.



## Used Code from other Frameworks/Smart Contracts (direct imports)

Imported packages:



IBEP20  
Ownable  
IterableMapping  
SafeMathInt  
SafeMathUint  
SafeMath  
IPinkAntiBot  
DividendPayingTokenOptionalInterface  
DividendPayingTokenInterface  
DividendPayingToken  
DividendTracker  
IDEXFactory  
IDEXRouter

# Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

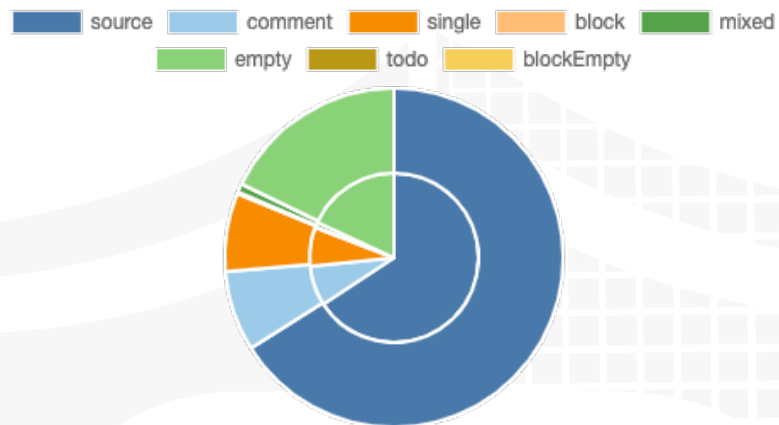
*A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.*

## v1.0

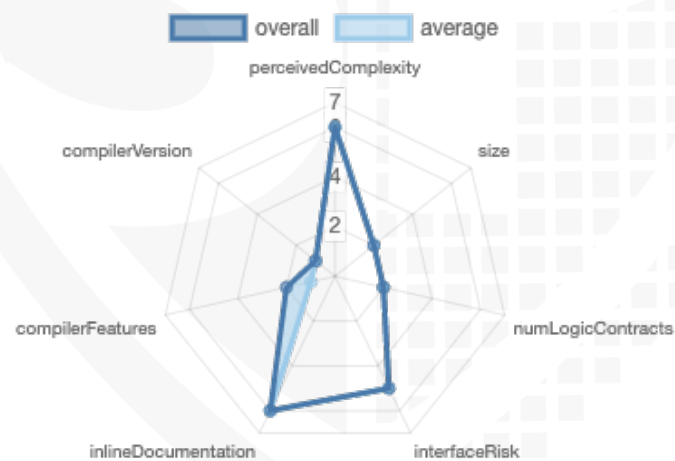
File Name	SHA-1 Hash
contracts/infinitysquad.sol	def79124cc3730d72f1b618c7c18dff72e25e24d

# Metrics

## Source Lines v1.0



## Risk Level v1.0



## Capabilities

### Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	3	4	6	1

### Exposed Functions

*This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.*

Version	Public	Payable
1.0	134	6

Version	External	Internal	Private	Pure	View
1.0	104	110	7	21	60

### State Variables

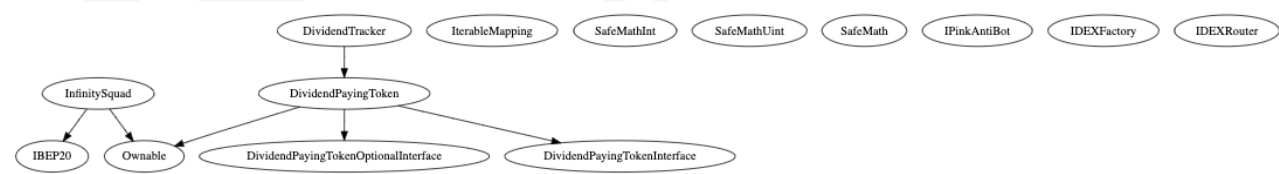
Version	Total	Public
1.0	73	52

### Capabilities

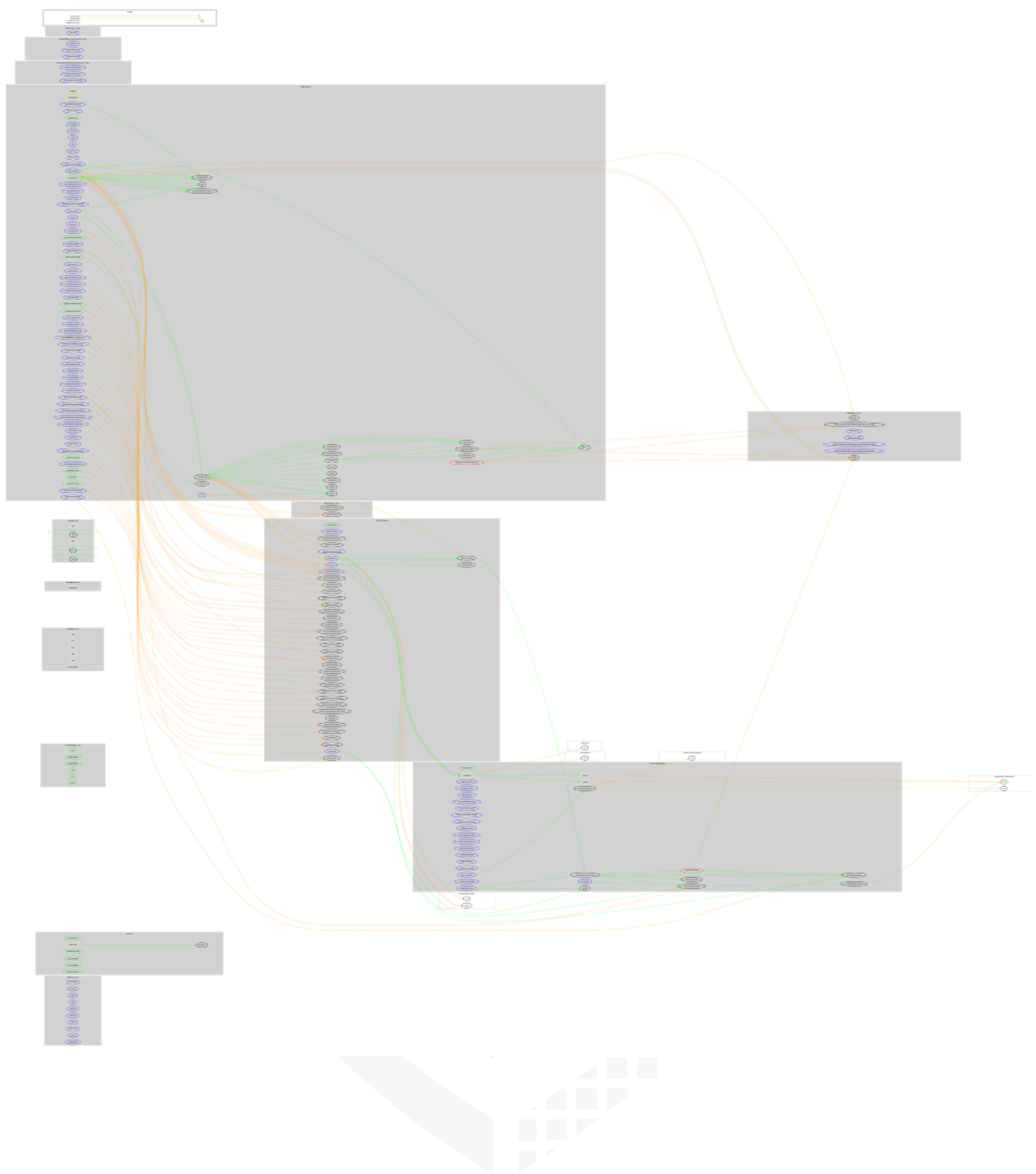
Version	Solidity Versions observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.0	0.8.13		yes	yes (1 asm blocks)	

Version	Transfers ETH	Low-Level Calls	DelegateCall	Uses Hash Functions	EC Recover	New/Create/Create2
1.0						yes → NewContract:DividendTracker

# Inheritance Graph v1.0



# CallGraph v1.0



## Scope of Work/Verify Claims

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

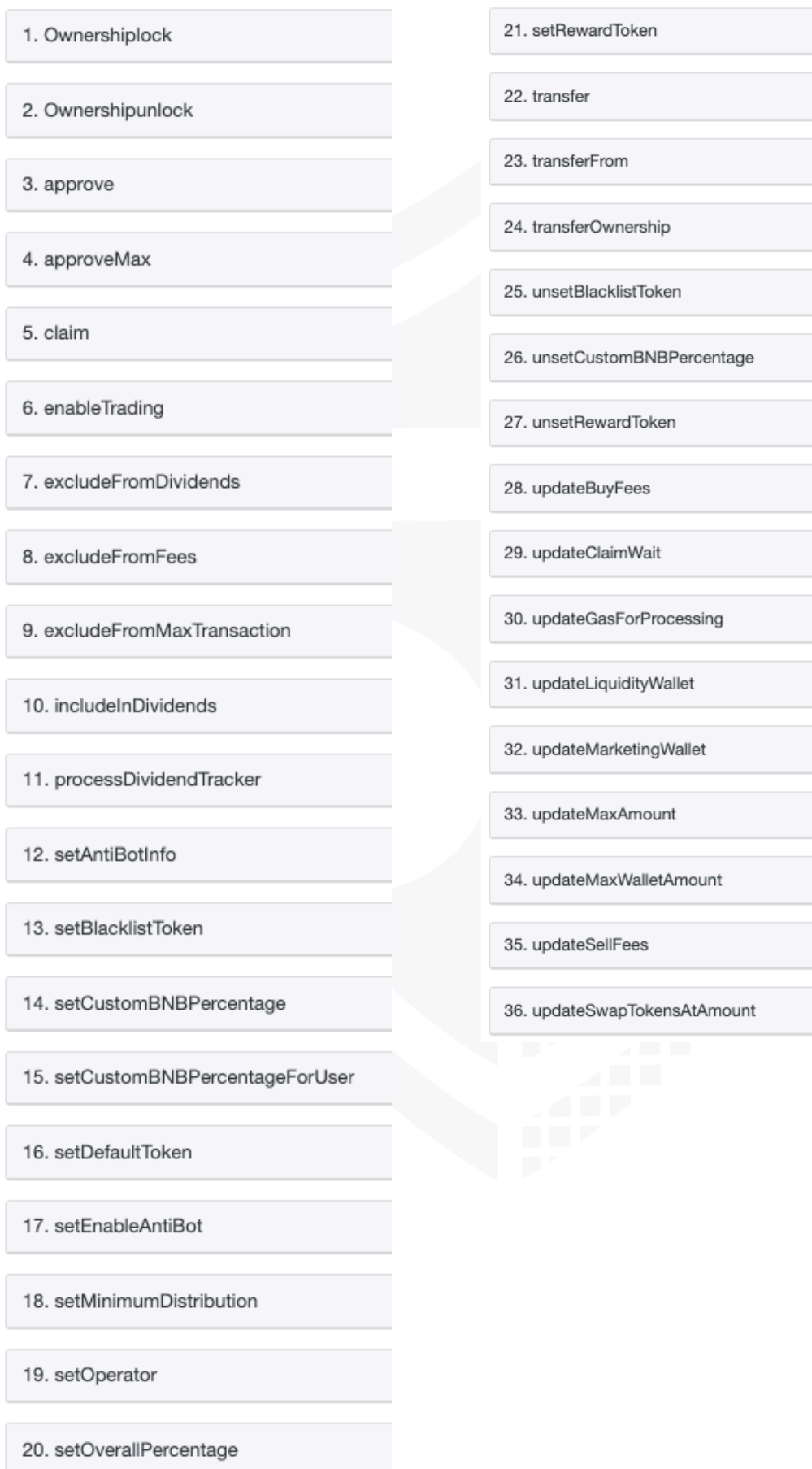
We will verify the following claims:

1. Correct implementation of Token standard
2. Deployer cannot mint any new tokens
3. Deployer cannot burn or lock user funds
4. Deployer cannot pause the contract
5. Overall checkup (Smart Contract Security)

### Correct implementation of Token standard

ERC20				
Function	Description	Exist	Tested	Verified
TotalSupply	Provides information about the total token supply	✓	✓	✓
BalanceOf	Provides account balance of the owner's account	✓	✓	✓
Transfer	Executes transfers of a specified number of tokens to a specified address	✓	✓	✓
TransferFrom	Executes transfers of a specified number of tokens from a specified address	✓	✓	✓
Approve	Allow a spender to withdraw a set number of tokens from a specified account	✓	✓	✓
Allowance	Returns a set number of tokens from a spender to the owner	✓	✓	✓

## Write functions of contract v1.0





## Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	—	—	—
Max / Total Supply	560000000		



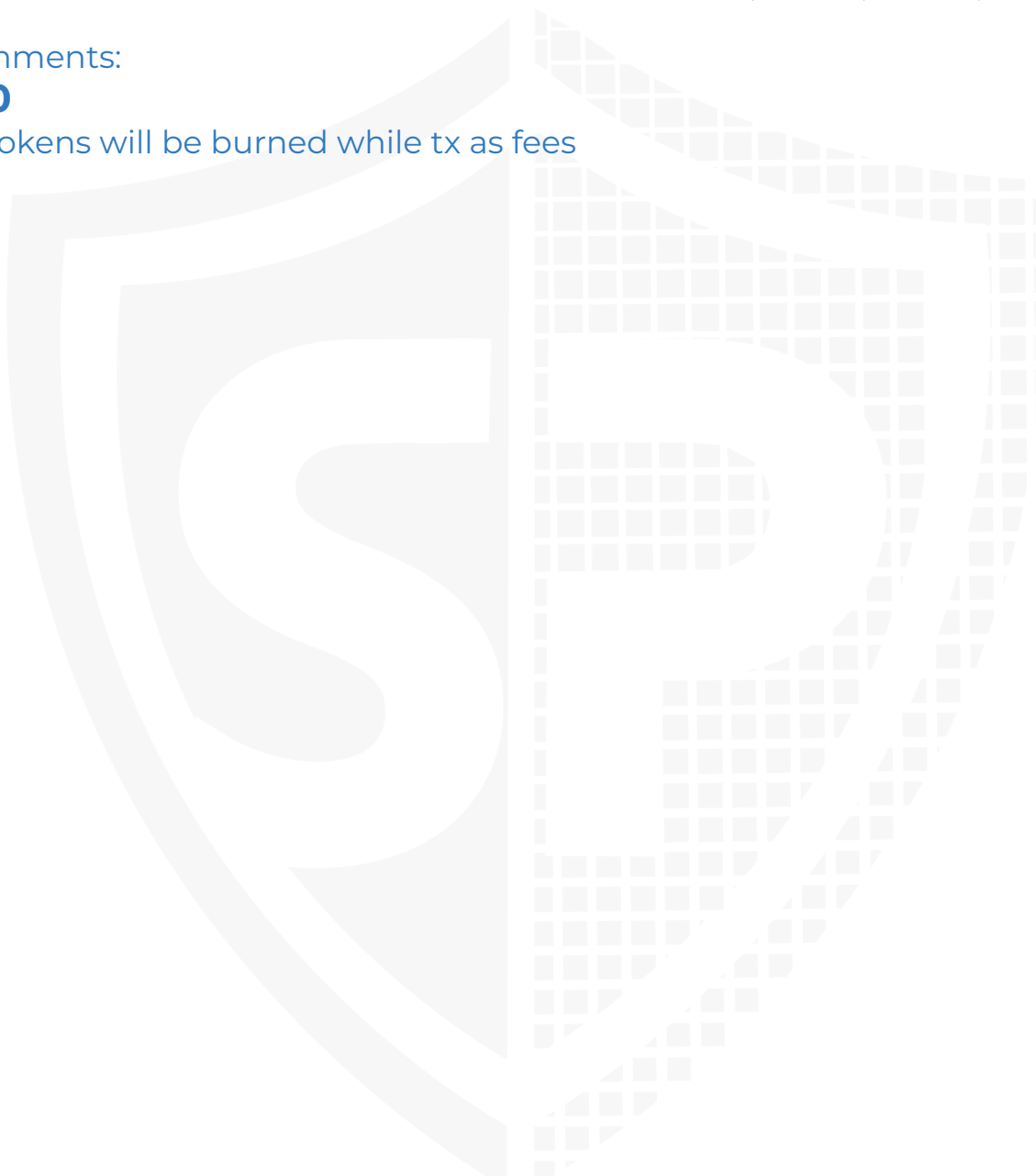
## Deployer cannot burn or lock user funds

Name	Exist	Tested	Status
Deployer cannot lock	✓	✓	✓
Deployer cannot burn	-	-	-

Comments:

**v1.0**

- Tokens will be burned while tx as fees



## Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	—	—	—



## Overall checkup (Smart Contract Security)

Tested	Verified
✓	✓

### Legend

Attribute	Symbol
Verified / Checked	✓
Partly Verified	⚠
Unverified / Not checked	✗
Not available	—

# Modifiers and public functions

v1.0

- approve
- approveMax
- transfer
- transferFrom
- updateMaxWalletAmount
  - onlyOwner
- updateMaxAmount
  - onlyOwner
- excludeFromMaxTransaction
  - onlyOwner
- enableTrading
  - onlyOwner
- updateSwapTokensAtAmount
  - onlyOwner
- excludeFromFees
  - onlyOwner
- excludeFromDividends
  - onlyOwner
- includeInDividends
  - onlyOwner
- setOperator
  - onlyOwner
- setDefaultToken
  - onlyOwner
- setAntiBotInfo
  - onlyOwner
- setEnableAntiBot
  - onlyOwner
- updateLiquidityWallet
  - onlyOwner
- updateMarketingWallet
  - onlyOwner
- updateBuyFees
  - onlyOwner
- updateSellFees
  - onlyOwner
- updateGasForProcessing
  - onlyOwner
- updateClaimWait
  - onlyOwner
- setMinimumDistribution
  - onlyOwner
- setBlacklistToken
  - onlyOwner
- unsetBlacklistToken
  - onlyOwner
- setRewardToken
- unsetRewardToken
- setCustomBNBPercentage
- setCustomBNBPercentageForUser
  - onlyOwner
- unsetCustomBNBPercentage

- setOverallPercentage
  - onlyOwner
- claim
- processDividendTracker

- transferOwnership
  - onlyOwner
- Ownershiplock
  - onlyOwner
- Ownershipunlock

- excludeFromDividends
  - onlyOwner
- includeInDividends
  - onlyOwner
- updateDividendMinimum
  - onlyOwner
- updateClaimWait
  - onlyOwner
- setBalance
  - onlyOwner
- process
- processAccount
  - onlyOwner

- setBlacklistToken
  - onlyOwner
- unsetBlacklistToken
  - onlyOwner
- setDefaultToken
  - onlyOwner
- setCustomBNBPercentage
  - onlyOwner
- setOverallPercentage
  - onlyOwner
- unsetCustomBNBPercentage
  - onlyOwner
- setMinimumDistribution
  - onlyOwner
- setInitRewardToken
  - onlyOwner
- setRewardToken
  - onlyOwner
- unsetRewardToken
  - onlyOwner
- distributeDividends 💰
- withdrawDividend





## Comments

- Deployer can set following state variables without any limitations
  - overallPercentage
    - Can be set up to 100%
- Deployer can enable/disable following state variables
  - userHasCustomPercentage
  - holderBNBPercentage
  - blackListRewardTokens
  - enableAntiBot
  - excludedFromDividends
  - \_isExcludedFromFees
  - \_isExcludedMaxTransactionAmount
- Deployer can set following addresses
  - marketingFeeReceiver
  - liquidityWallet
  - pinkAntiBot
  - defaultToken
  - operator

**Please check if an `OnlyOwner` or similar restrictive modifier has been forgotten.**

# Source Units in Scope

## v1.0

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	contracts/infinisquad.sol	8	6	1470	1366	991	124	869	
	<b>Totals</b>	<b>8</b>	<b>6</b>	<b>1470</b>	<b>1366</b>	<b>991</b>	<b>124</b>	<b>869</b>	

### Legend

Attribute	Description
Lines	total lines of the source unit
nLines	normalized lines of the source unit (e.g. normalizes functions spanning multiple lines)
nSLOC	normalized source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments
Complexity Score	a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces, ...)

# Audit Results

# AUDIT PASSED

## Critical issues

**No critical issues**

## High issues

**No high issues**

## Medium issues

Issue	File	Type	Line	Description
#1	Main	Regain ownership	See description	<p>Owner can regain ownership after transferring it with following steps:</p> <ol style="list-style-type: none"><li>1. Call Ownershiplock function to set _previousOwner to the own address</li><li>2. Call Ownershipunlock function to get ownership back</li><li>3. Transfer/renounce ownership</li><li>4. Call Ownershipunlock function to get ownership back</li></ol> <p>Make sure to set the _previousOwnership back to address zero after using the unlock function</p>

## Low issues

Issue	File	Type	Line	Description
-------	------	------	------	-------------



#1	Main	Contract doesn't import npm packages from source (like OpenZeppelin etc.)	-	We recommend to import all packages from npm directly without flatten the contract. Functions could be modified or can be susceptible to vulnerabilities
#2	Main	Missing Zero Address Validation (missing-zero-check)	388, 1055	Check that the address is not zero
#3	Main	State variable visibility is not set	853, 854, 858, 325, 326	It is best practice to set the visibility of state variables explicitly
#4	Main	Missing Events Arithmetic	405	Emit an event for critical parameter changes

## Informational issues

Issue	File	Type	Line	Description
#1	Main	State variables that could be declared constant (constable-states)	851	Add the `constant` attributes to state variables that never change
#2	Main	Functions that are not used	1441	Remove unused functions
#3	Main	Unused state variables	143	Remove unused state variables
#4	Main	Misspelling	See description	Change following words: <ul style="list-style-type: none"> <li>- exlcude L903</li> <li>- tokensIntoLiquidity L917</li> <li>- manuall L1281</li> </ul> Make sure to change it everywhere else as well.
#5	Main	Error message is missing	664, 656, 505, 183, 175, 170, 165, 159, 153, 148, 147,	Provide an error message for require statement
#6	Main	Low level call	1417, 1418	Check low level call success status

## Commented Code exist

There are some instances of code being commented out in the following files that should be removed:

File	Line	Comment
Main	227	// assert(a == b * c + a % b); // There is no case in which this doesn't hold

## Recommendation

Remove the commented code, or address them properly.

## Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information <https://docs.soliditylang.org/en/v0.5.10/natspec-format.html>) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what that variables, functions etc. do.

### 09. April 2022:

- Read whole report for more information

## SWC Attacks

ID	Title	Relationships	Status
<a href="#">SW C-1 36</a>	Unencrypted Private Data On-Chain	<a href="#">CWE-767: Access to Critical Private Variable via Public Method</a>	PASSED
<a href="#">SW C-1 35</a>	Code With No Effects	<a href="#">CWE-1164: Irrelevant Code</a>	PASSED
<a href="#">SW C-1 34</a>	Message call with hardcoded gas amount	<a href="#">CWE-655: Improper Initialization</a>	PASSED
<a href="#">SW C-1 33</a>	Hash Collisions With Multiple Variable Length Arguments	<a href="#">CWE-294: Authentication Bypass by Capture-replay</a>	PASSED
<a href="#">SW C-1 32</a>	Unexpected Ether balance	<a href="#">CWE-667: Improper Locking</a>	PASSED
<a href="#">SW C-1 31</a>	Presence of unused variables	<a href="#">CWE-1164: Irrelevant Code</a>	NOT PASSED
<a href="#">SW C-1 30</a>	Right-To-Left-Override control character (U+202E)	<a href="#">CWE-451: User Interface (UI) Misrepresentation of Critical Information</a>	PASSED
<a href="#">SW C-1 29</a>	Typographical Error	<a href="#">CWE-480: Use of Incorrect Operator</a>	PASSED
<a href="#">SW C-1 28</a>	DoS With Block Gas Limit	<a href="#">CWE-400: Uncontrolled Resource Consumption</a>	PASSED

<a href="#">SW</a> <a href="#">C-1</a> <a href="#">27</a>	Arbitrary Jump with Function Type Variable	<a href="#">CWE-695: Use of Low-Level Functionality</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">25</a>	Incorrect Inheritance Order	<a href="#">CWE-696: Incorrect Behavior Order</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">24</a>	Write to Arbitrary Storage Location	<a href="#">CWE-123: Write-what-where Condition</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">23</a>	Requirement Violation	<a href="#">CWE-573: Improper Following of Specification by Caller</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">22</a>	Lack of Proper Signature Verification	<a href="#">CWE-345: Insufficient Verification of Data Authenticity</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">21</a>	Missing Protection against Signature Replay Attacks	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">20</a>	Weak Sources of Randomness from Chain Attributes	<a href="#">CWE-330: Use of Insufficiently Random Values</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-11</a> <a href="#">9</a>	Shadowing State Variables	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-11</a> <a href="#">8</a>	Incorrect Constructor Name	<a href="#">CWE-665: Improper Initialization</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-11</a> <a href="#">7</a>	Signature Malleability	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	<b>PASSED</b>

<a href="#">SW C-11 6</a>	Timestamp Dependence	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	PASSED
<a href="#">SW C-11 5</a>	Authorization through tx.origin	<a href="#">CWE-477: Use of Obsolete Function</a>	PASSED
<a href="#">SW C-11 4</a>	Transaction Order Dependence	<a href="#">CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')</a>	PASSED
<a href="#">SW C-11 3</a>	DoS with Failed Call	<a href="#">CWE-703: Improper Check or Handling of Exceptional Conditions</a>	PASSED
<a href="#">SW C-11 2</a>	Delegatecall to Untrusted Callee	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	PASSED
<a href="#">SW C-11 1</a>	Use of Deprecated Solidity Functions	<a href="#">CWE-477: Use of Obsolete Function</a>	PASSED
<a href="#">SW C-11 0</a>	Assert Violation	<a href="#">CWE-670: Always-Incorrect Control Flow Implementation</a>	PASSED
<a href="#">SW C-1 09</a>	Uninitialized Storage Pointer	<a href="#">CWE-824: Access of Uninitialized Pointer</a>	PASSED
<a href="#">SW C-1 08</a>	State Variable Default Visibility	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	NOT PASSED
<a href="#">SW C-1 07</a>	Reentrancy	<a href="#">CWE-841: Improper Enforcement of Behavioral Workflow</a>	PASSED
<a href="#">SW C-1 06</a>	Unprotected SELFDESTRUCT Instruction	<a href="#">CWE-284: Improper Access Control</a>	PASSED

<a href="#">SW</a> <a href="#">C-1</a> <a href="#">05</a>	Unprotected Ether Withdrawal	<a href="#">CWE-284: Improper Access Control</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">04</a>	Unchecked Call Return Value	<a href="#">CWE-252: Unchecked Return Value</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">03</a>	Floating Pragma	<a href="#">CWE-664: Improper Control of a Resource Through its Lifetime</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">02</a>	Outdated Compiler Version	<a href="#">CWE-937: Using Components with Known Vulnerabilities</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">01</a>	Integer Overflow and Underflow	<a href="#">CWE-682: Incorrect Calculation</a>	<b>PASSED</b>
<a href="#">SW</a> <a href="#">C-1</a> <a href="#">00</a>	Function Default Visibility	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	<b>PASSED</b>

The logo features the words "Solid Proofed" in a white, elegant script font. The word "Solid" is positioned above "Proofed". Behind the text is a faint, stylized shield emblem with a grid-like pattern, rendered in a darker shade of blue. The entire composition is set against a solid blue background.

Solid  
Proofed

**Blockchain Security | Smart Contract Audits | KYC**

A small horizontal bar representing the German flag, with black, red, and gold stripes.

MADE IN GERMANY