



Swift, Accurate, Secure

# SMART CONTRACT AUDIT

+ Project Analysis



<b>PROJECT NAME:</b>	KeySwap
<b>TOKEN ADDRESS:</b>	0x07b1681C082039551952bDee4A505cecC2FF4998
<b>TOKEN WEBSITE:</b>	<a href="https://keyswap.exchange/">https://keyswap.exchange/</a>
<b>TELEGRAM:</b>	<a href="https://t.me/keyswap_chat">https://t.me/keyswap_chat</a>
<b>TWITTER:</b>	<a href="https://twitter.com/keyswap_dex">https://twitter.com/keyswap_dex</a>



KEYSWAP HAS **PASSED** THE AUDIT WITH A HIGH SCORE OF **97%** AND IS CONSIDERED  
**SAFE FROM A SECURITY STANDPOINT - PLEASE SEE FULL REPORT BELOW.**

## VULNERABILITIES DETECTED

CRITICAL	MAJOR	MEDIUM	MINOR	INFORMATIONAL
0	0	0	0	0

## PLEASE READ BELOW FOR THOROUGH REPORT

THIS DOCUMENT CERTIFIES THE SMART CONTRACT ABOVE AS AUDITED BY RHINOAUDITING.COM

## PROJECT OVERVIEW

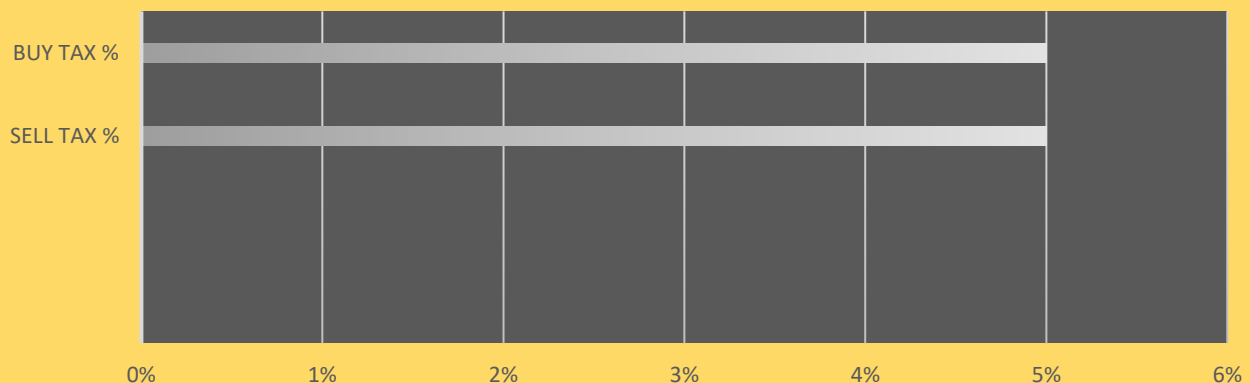
**RHINO AUDITING HAS AUDITED KEYSWAP ON THE 05TH OF MARCH 2022 AND CONDUCTED A SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS. THIS REPORT PRESENTS THE FINDINGS AND VULNERABILITIES TOGETHER WITH SUGGESTIONS ON HOW TO FIX SAID VULNERABILITIES. A SCORE WILL BE PRESENTED TO THE PROJECT BASED ON FINDINGS. THIS SCORE WILL DETERMINE IF THE PROJECT IS **SAFE** OR **UNSAFE**.**

## INTRODUCTION OF CLIENT

**ADVANCED DEFI ON BINANCE SMART CHAIN WITH NEW INTERESTING FEATURES. METAVERSE, NFTs, AND LAUNCHPAD ARE PROVIDED WITH NEW TYPES OF FARMS AND POOLS. START TO BOOST RIGHT NOW!**

<b>PROJECT NAME:</b>	KEYSWAP
<b>TOKEN TICKER:</b>	KEY
<b>TOKEN ADDRESS:</b>	0x07b1681C082039551952bDee4A505cecC2FF4998
<b>NETWORK:</b>	Binance Smart Chain Contract
<b>TOTAL SUPPLY:</b>	20,000,000 KEY
<b>DEV WALLET:</b>	0x7ed93b1a7ab560a8672d40ab5d713dd610b51c3d
<b>MARKETING WALLET:</b>	0xfae0c9848538588c2d3cbba16a8ea9d23581ab6e
<b>LIQUIDITY:</b>	NO LIQUIDITY AT THE TIME OF THE AUDIT
<b>LP PAIRING:</b>	BNB + KEY
<b>WEBSITE ADDRESS:</b>	KEYSWAP.EXCHANGE

## TOKENOMICS &amp; TAX



**THIS DOCUMENT CERTIFIES THE SMART CONTRACT ABOVE AS AUDITED BY RHINOAUDITING.COM**

## AUDIT METHODOLOGY

**THE SOURCE CODE OF THE CONTRACT AUDITED IS THE VERIFIED CONTRACT LOCATED ON BSCSCAN. THIS CONTRACT WHILE UNDER REVIEW BY RHINO AUDITING HAS WENT THROUGH A RIGOROUS ANALYSIS AND EVERY LINE OF CODE BOTH MANUALLY AND AUTOMATICALLY AUDITED.**

**THE FOLLOWING AUDITING METHODOLOGY IS BEING USED:**

- **ENSURING THE CONTRACT SOURCE MEETS THE NEEDS OF THE CLIENT AND THAT THERE ARE NO SECURITY VULNERABILITIES UNTURNED THAT MAY RESULT IN INVESTOR LOSS OR THE DISSOLVING OF THE PROJECT**
- **VERIFY CONTRACT FUNCTIONS SUCH AS MINT, LOCK, PAUSE, AND BLACKLIST – AND ESTABLISH WHO IS ALLOWED TO PERFORM THESE FUNCTIONS & IF THEY CAN BE EXPLOITED.**
- **TESTING THE SMART CONTRACT AGAINST VARIOUS ATTACK VECTORS, WITH VARIOUS DIFFICULTIES.**
- **CLASSIFICATION OF VULNERABILITIES FOUND, ALONGSIDE WITH SUGGESTIONS ON HOW TO FIX SAID VULNERABILITIES.**
- **SOCIAL MEDIA ANALYSIS TO ESTABLISH PROJECT SENTIMENT AND WEBSITE ANALYSIS & REVIEW**
- **ASSESSMENT OF THE CODE BASE, ALONGSIDE WITH GAS OPTIMIZATION TEST AND DEPLOYMENT ON OUR LOCAL TEST NETWORK FOR FURTHER ANALYSIS AFTER DEPLOYMENT**
- **INSPECTION OF LIQUIDITY AND ESTABLISHING IF IT IS LOCKED, HOW LONG IT IS LONG FOR, AND WHO HAS THE RIGHTS TO REMOVE LIQUIDITY**
- **AN IN-DEPTH REPORT PRESENTING ALL FINDINGS TO THE CLIENT AND TO HIS INVESTORS.**

## SECURITY ANALYSIS

CRITICAL	MAJOR	MEDIUM	MINOR	INFORMATIONAL
0	0	0	0	0

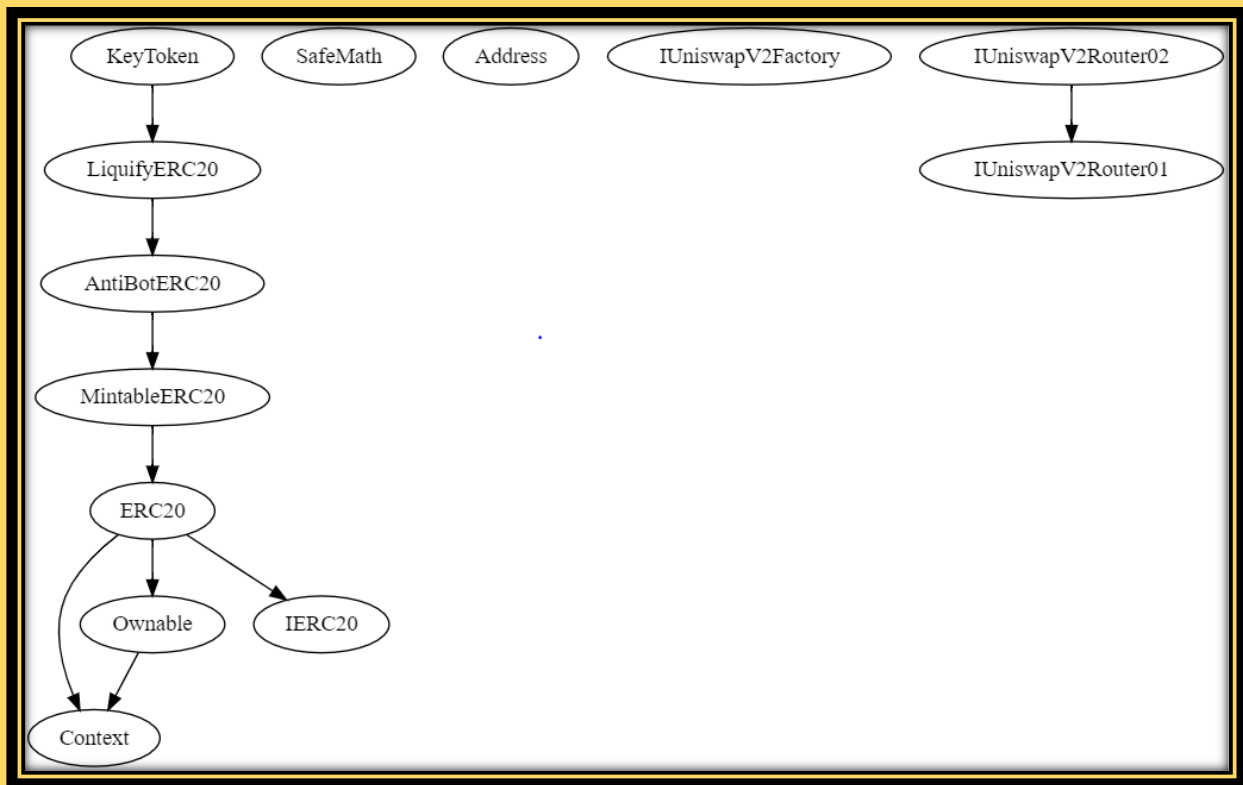
SWC VULNERABILITIES INSPECTED	STATUS
FUNCTION DEFAULT VISIBILITY	PASSED
INTEGER OVERFLOW AND UNDERFLOW	PASSED
OUTDATED COMPILER VERSION	PASSED
FLOATING PRAGMA	PASSED
UNCHECKED CALL RETURN VALUE	PASSED
UNPROTECTED ETHER/FUNDS WITHDRAWAL	PASSED
UNPROTECTED SELF DESTRUCT FUNCTION	PASSED
REENTRANCY	PASSED
STATE VARIABLE DEFAULT VISIBILITY	PASSED
ASSERT VIOLATION	PASSED
USE OF DEPRECATED SOLIDITY FUNCTIONS	PASSED
DELEGATECALL TO UNTRUSTED CALLEE	PASSED
DOS WITH FAILED CALL	PASSED
AUTHORIZATION THROUGH TX.ORIGIN	PASSED
BLOCK VALUES AS PROXY FOR TIME	PASSED
INCORRECT CONSTRUCTOR NAME	PASSED
SHADOWING STATE VARIABLES	PASSED
WEAK SOURCES OF RANDOMNESS FROM CHAIN	PASSED
REQUIREMENT VIOLATION	PASSED
INCORRECT INHERITANCE ORDERING	PASSED
PRESENCE OF UNUSED VARIABLES	PASSED
DOS WITH BLOCK GAS LIMIT	PASSED
TYPOGRAPHICAL ERRORS	PASSED
CODE WITH NO FUNCTIONS	PASSED
UNCRYPTED PRIVATE DATA ON BLOCKCHAIN	PASSED



**THE SMART CONTRACT HAS PASSED ALL  
VULNERABILITY CHECKS – NO CONCERNS**

THIS DOCUMENT CERTIFIES THE SMART CONTRACT ABOVE AS AUDITED BY RHINDAUDITING.COM

## INHERITANCE GRAPH



## OWNER PRIVILEGES

### Owner Can Blacklist Wallets & remove them from Blacklist

```

function excludeFromBlacklist(address account) public onlyOwner {
    _blacklist[account] = false;
    emit ExcludedFromBlacklist(account);
}
function includeInBlacklist(address account) public onlyOwner {
    _blacklist[account] = true;
    emit IncludedInBlacklist(account);
}

```

### Owner Can Exclude Wallets from the Anti-Whale Function

```

function excludeFromAntiWhales(address account) public onlyOwner {
    _isExcludedFromAntiWhales[account] = true;
    emit ExcludedFromAntiWhales(account);
}
function includeInAntiWhales(address account) public onlyOwner {
    _isExcludedFromAntiWhales[account] = false;
    emit IncludedInAntiWhales(account);
}

```

## OWNER PRIVILEGES PART 2

### Owner can Exclude and Include Wallets from Transaction fees

```
function excludeFromFee(address account) external onlyOwner {
    _isExcludedFromFee[account] = true;
}

function includeInFee(address account) external onlyOwner {
    _isExcludedFromFee[account] = false;
}
```

### Owner can **MINT** new tokens – May be necessary due to client running a SWAP service

```
function _mint(address account, uint256 amount) internal {
    require(account != address(0), "ERC20: mint to the zero address");

    _totalSupply = _totalSupply.add(amount);
    _balances[account] = _balances[account].add(amount);
    emit Transfer(address(0), account, amount);
}
```

### Owner can change Marketing Wallet of Token

```
function setMarketingWallet(address payable newMarketingWallet)
    external
    onlyOwner
```

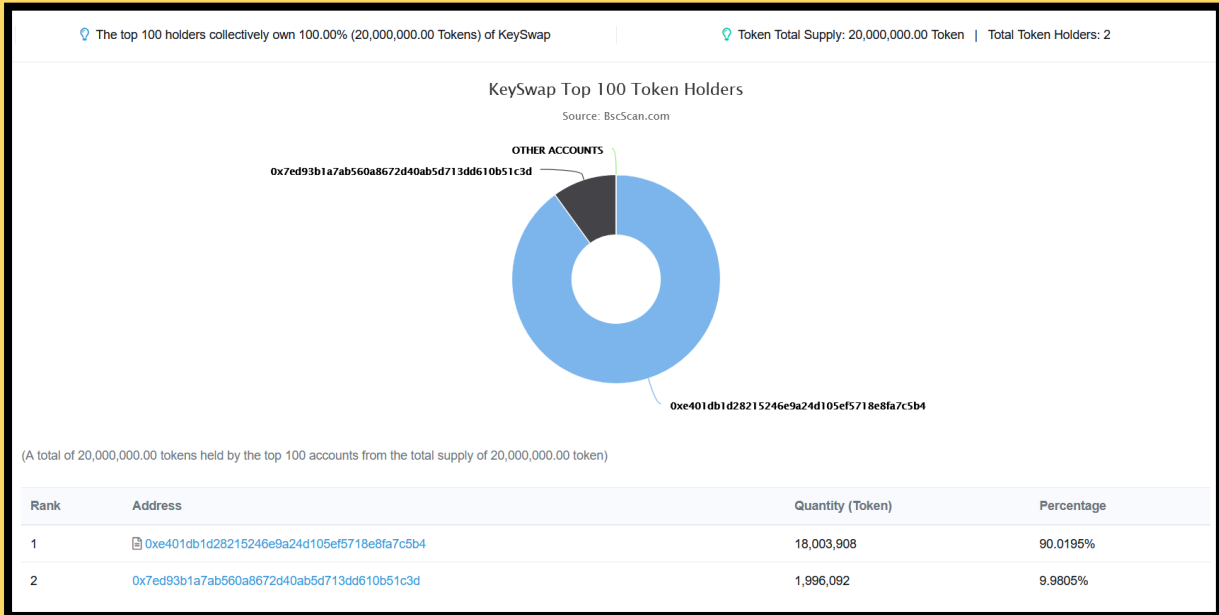
### The Owner can change the Tax up to 10% for every transaction

```
uint16 public MaxLiquifyFee = 500; // 30% max
uint16 public MaxMarketingFee = 500; // 30% max
-----
function setAllFeePercent(uint16 liquifyFee, uint16 marketingFee)
    external
    onlyOwner
{
    require(liquifyFee <= MaxLiquifyFee, "Liquidity fee overflow");
    require(marketingFee <= MaxMarketingFee, "Buyback fee overflow");
    _liquifyFee = liquifyFee;
    _marketingFee = marketingFee;
}
```

### The Owner can enable/disable Taxation on Token Sale


```
bool public _applyFeeOnlyOnSell = false;
-----
function applyFeeOnlyOnSell(bool flag) external onlyOwner {
    _applyFeeOnlyOnSell = flag;
}
```

## TOKEN ANALYTICS

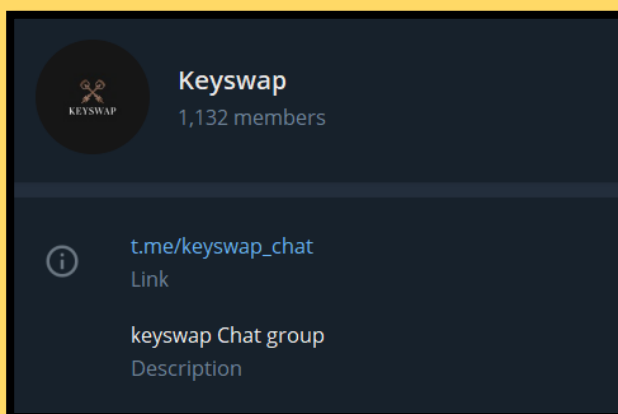


## SOCIAL MEDIA ANALYSIS

### TWITTER ACTIVITY ANALYSIS OF CLIENT AS OF 05/03/2022 FROM TRACKING AVAILABILITY

	keyswap	02.04.2022 - 03.05.2022			
Total Likes	Total Shares	Total Posts	Followers	ER day, %	
872	641	9	738	34.169%	
ER post, %	LR, %	Average Likes	Average Shares		
22.779%	13.129%	97	71		

### TELEGRAM CHANNEL MEMBER SIZE AS OF 05/03/2022



- Average new member per hour: **68**
- Average time between messages: **21 SEC**
- Telegram Hype Level: **HIGH**

## WEBSITE ANALYSIS

## KEYSWAP.EXCHANGE

The screenshot displays the KeySwap website interface. At the top, the navigation bar includes the KeySwap logo, links for Trade, Farms, Pools, NFT, Launchpad, and About, along with a balance of \$0.050 and a Connect Wallet button. The main heading reads "KeySwap to the Moon! Pump your profit." followed by a description of advanced DeFi features on the Binance Smart Chain. Below this are buttons for "Trade Now" and "Learn More".

The dashboard features four key statistics:

- 20,000,000** Total supply
- 0** Burned to date
- \$1 million** Market cap
- 25/block** Current emissions

Below these are two sections for "Farms" and "Total Value Locked". The "Farms" section shows "KEY to Harvest" and "KEY in Wallet" both at 0.00. The "Total Value Locked" section shows \$0.00 across all farms, pools, and NFTs.

The "Core Features" section is divided into six categories:

- Trading:** KeySwap supports almost trading pairs on Binance Smart Chain and provides protected liquidity with high volumes. Button: Start Trading.
- Farming:** KeySwap supports fixed apr of farms including Gold Farm and Dismond Farm with withdraw locked up time & exit fee. Button: Start Farming.
- Pooling:** KeySwap supports fixed apr of pools with low risk. Users can earn KEY tokens or any other tokens from pool or staking. Button: Start Pooling.
- NFTs:** KeySwap supports NFT Marketplace and NFT staking pools with the highest apr. Just staking some NFTs will give you tons of rewards. Button: Start Staking.
- Launchpad:** KeySwap supports other projects to list tokens. All processes are transparent and protected by keyswap community. Button: View Launchpad.
- Metaverse:** KeySwap supports Metaverse Games to give good feeling with KEY tokens. Enjoy your time with some KEY tokens! Button: View Games.

**KEYSWAP.EXCHANGE** WEBSITE IS THE MAIN PLATFORM OF THE **KEYSWAP** TOKEN. IT IS WELL DESIGNED, PACKED WITH FEATURES, AND IS OF HIGH QUALITY. RHINO GIVES THIS WEBSITE A **9/10** IN TERMS OF DESIGN, RESPONSIVENESS, USER FRIENDLY INTERACTIVITY, AND OVERALL EASE OF READING.



## DISCLAIMER

**RHINO AUDITING HAS CHECKED THE CONTRACT CAREFULLY AND SCANNED EVERY LINE MANUALLY & USED A COMBINATION OF OVER 9 TOOLS FOR AUTOMATIC ANALYSIS. THIS GUARANTEES A HIGH LEVEL OF SAFETY AND LOW MARGIN OF ERROR. HOWEVER, WE DO NOT PROVIDE ANY WARRANTY OR GUARANTEE THAT THE CONTRACT IS ABSOLUTELY BUG FREE DUE TO THE NATURE OF THE SMART CONTRACTS.**

**AN AUDIT PROVIDED BY RHINO AUDITING SHOULD NOT BE CONSIDERED AS AN "ENDORSEMENT" OR "DISAPPROVAL" OF THE PROJECT/TOKEN ANALYZED AND SHOULD NOT BE USED AS A POSITIVE FOR INVESTMENT. AN AUDIT BY RHINOAUDITING IS MERELY AN ADVISORY TOOL PROVIDED TO THE CLIENT WHICH EMPHASIZES THE STRENGTH AND WEAKNESSES OF THEIR SMART CONTRACT/PROJECT. IT THE INVESTOR'S CHOICE IF THEY WISH TO SHARE THIS INFORMATION WITH INVESTORS.**

**RHINO AUDITING USUALLY PROVIDES SUGGESTIONS ON HOW TO FIX VULNERABILITIES THAT APPEAR – IF THERE IS NO SUCH INFORMATION THAT MEANS THAT THE SMART CONTRACT AUDIT HAS LIKELY DETECTED NO ERRORS, THEREFORE NO ADVICE TO BE GIVEN.**

**CRYPTOCURRENCIES AND ESPECIALLY NEWLY LAUNCHED CRYPTOCURRENCIES PROVIDE A HIGH LEVEL OF RISK. THEREFORE, IT'S EACH INVESTORS RESPONSIBILITY TO DO PROPER RESEARCH INTO THE TRUSTWORTHINESS OF EACH PROJECT THEY INVEST IN.**

## OUR SOCIAL MEDIA

**WEBSITE: [RHINOAUDITING.COM](https://rhinoauditing.com)**

**TWITTER: [@RHINOAUDITING](https://twitter.com/rhinoauditing)**

**TELEGRAM: [T.ME/RHINOAUDITING](https://t.me/rhinoauditing)**

**EMAIL: [ADMIN@RHINOAUDITING.COM](mailto:admin@rhinoauditing.com)**

**BOOK AN AUDIT BY CONTACTING: [T.ME/RHINOCEO](https://t.me/rhinoceo)**

**PLEASE CHECK OUR WEBSITE FOR VARIOUS PRICING PACKAGES, WE OFFER KYC SERVICES, ICO CONSULTING, WEBSITE & SOCIAL MEDIA ANALYSIS AND SUGGESTIONS ON HOW TO IMPROVE MOST ASPECTS OF YOUR CRYPTOCURRENCY BUSINESS.**

