

AUDIT REPORT

TOKEN NINJA (TKNJ)













Quick Result

Quick Result	Status
Owner can mint new token?	Not Detected
Owner can update tax over 25% ?	Yes
Owner can pause trade?	Yes
Owner can enable trading ?	Not Detected
Owner can add Blacklist ?	Pass
Owner can set Max Tx ?	Yes
Owner can set Max Wallet Amount ?	Not Detected
KYC?	Yes

Page 6,12 for more details



Findings

Risk Classification	Description	
High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, of the contract and its functions. Must be fixed as soon as possible.	
Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Must be fxed as soon as possible.	
Low	Effects are minimal in isolation and do not pose a signifcant danger to the project or its users. Issues under this classifcation are recommended to be fixed nonetheless.	
Informational	A vulnerability that have informational character but is not effecting any of the code	

Severity	Found	Pending	Resolved
High	0	6	O
Medium	0	0	o
Low	0	0	o
Informational	0	7	o
Total	0	13	0



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Overview

Token Name: Token Ninja (TKNJ)

Language: Solidity

Contract Address: 0xe8984FFF44cf219B9bA77800232e96AcF2b046cF

Network: Ethereum

Total Supply: 1000000

KYC: Yes

Website: https://tokenninja.xyz

Twitter: https://twitter.com/2crazylive

Telegram: https://t.me/TwoCrazyNFT

Report Date: September 4, 2023

Testnet Link:

https://testnet.bscscan.com/address/0xeec581fa8554fa6a8b06b2bd74744a8138028e43



Auditing Approach and Methodologies

SecureWise has performed starting with analyzing the code, issues, code quality, and libraries. Reviewed line-by-line by our team. Finding any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

Methodology

- Understanding the size, scope and functionality of your project's source code
- Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Testing and automated analysis of the Smart Contract to determine proper logic has been followed throughout the whole process
- Deploying the code on testnet using multiple live test
- Analyzing a program to determine the specific input that causes different parts of a program to execute its functions.
- Checking whether all the libraries used in the code are on the latest version.

Goals

Smart Contract System is secure, resilient and working according to the specifications and without any vulnerabilities.

Risk Classification

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Informational: A vulnerability that have informational character but is not effecting any of the code



Findings Summary

SecureWise has applied the automated and manual analysis of Smart Contract and were reviewed for common contract vulnerabilities and centralized exploits

Findings

The owner has the authority to set the tax rates without limit
The owner has the authority to set the maximum transaction amount without limit
The owner has the authority to set the uniswapV2router but there is a lack of input check
Trading Pair Issue
After the contract is deployed, the owner creates a pair
The owner has the authority to set the swap token at amount without limit
The owner has the authority to withdraw tokens from the contract
The owner has the authority to turn off the max tx amount limits
The owner has the authority to exclude/include addresses from max tx amount.
The owner has the authority to turn on/off the bot protection status
The owner has the authority to exclude/include addresses from bot protection
The owner has the authority to exclude/include addresses from fees.
The owner has the authority to turn on/off the tax status



Function Privileges

```
*IUniswapV2Factory** | Interface | |||
 ШШ
  **IUniswapV2Router01** | Interface | |||
 **IUniswapVZRouter01** | Interface | |||

L | factory | External ! | ||N0 ! ||

L | WETH | External ! | ||N0 ! ||

L | addLiquidity | External ! || ||N0 ! ||

L | addLiquidityETH | External ! || ||N0 ! ||

L | removeLiquidityETH | External ! || ||N0 ! ||

L | removeLiquidityWithPermit | External ! || ||N0 ! ||

L | removeLiquidityETHWithPermit | External ! || ||N0 ! ||

L | swapEyactTokensEngTokens | External ! || ||N0 ! ||

L | swapEyactTokensEngTokens | External ! || ||N0 ! ||
    | swapExactTokensForTokens | External ! |
  L | swapTokensForExactTokens | External !
    | swapExactETHForTokens | External | | 🔯 |NO | |
    | swapTokensForExactETH | External | | |
    | swapExactTokensForETH | External
                                                       N0
  | | swapETHForExactTokens | External | | 100 | NO
 L | swapETHForExactioners | NO ! | L | quote | External ! | NO ! |
 L | getAmountOut | External ! | |NO! |
L | getAmountIn | External ! | |NO! |
L | getAmountsOut | External ! | |NO! |
  L | getAmountsIn | External ! | |NO! |
ШШ
  **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
  | | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | | | | | | | | | | | | |
  l | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | № |NO! |
  L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | | 🛑 | NO!
ШШ
  **Context** | Implementation | |||
 **Ownable** | Implementation | Context |||
 | _transferOwnership | Internal 🔒 | 🛑 | |
```



Function Privileges

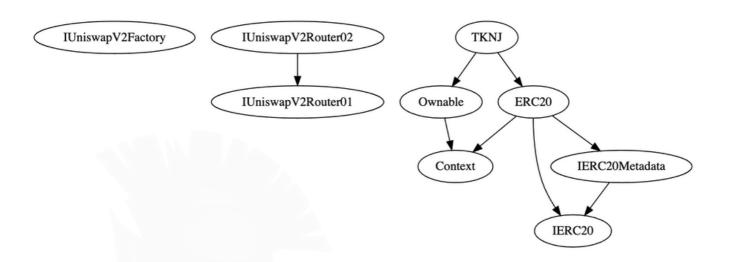
```
**IERC20** | Interface | |||
L | totalSupply | External ! | NO! |
L | balanceOf | External ! | |NO! |
L | transfer | External ! | | |NO! |
L | allowance | External ! | |NO! |
L | approve | External !
   **IERC20Metadata** | Interface | IERC20 |||
***ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
L | name | Public ! | | NO! |
L | symbol | Public ! | | NO! |
L | decimals | Public ! | | NO! |
L | totalSupply | Public ! | | NO! |
L | balanceOf | Public ! | | NO! |
L | transfer | Public ! | | NO! |
L | allowance | Public ! | | NO! |
L | approve | Public ! | | NO! |
L | transferFrom | Public ! | | NO! |
L | transferFrom | Public ! | | NO! |
L | increaseAllowance | Public ! | | NO! |
L | decreaseAllowance | Public ! | | NO! |
L | transfer | Internal | | | | | |
                                                     N0
L | _mint | Internal A | O | |
   | _approve | Internal 🔒 | 🧁
L | _spendAllowance | Internal A | O | |
L | _beforeTokenTransfer | Internal A | O | |
L | _afterTokenTransfer | Internal A | O | |
**TKNJ** | Implementation | ERC20, Ownable |||
L | excludeFromFee | Public ! |  | onlyOwner |
L | includeInFee | Public ! | | onlyOwner |
```



Function Privileges

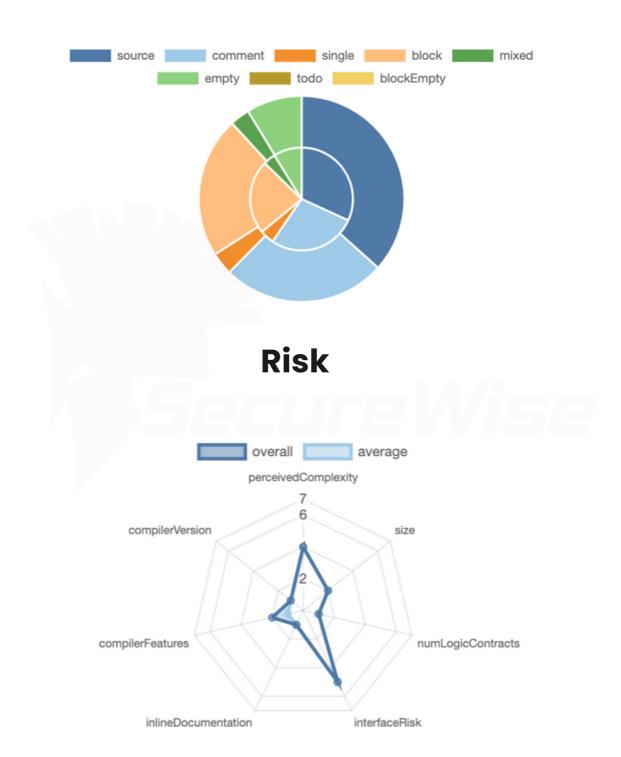


Inheritance Graph





Source Lines





High Risk

The owner has the authority to set the tax rates without limit

```
function setTaxRate(uint256 newRate) public onlyOwner {
   TAX = newRate;
}
```

Recommendation

The owner can set tax rates without any restrictions. Mitigate the security risk associated with unlimited access to tax rate changes by the owner. Consider using a multi-signature wallet for tax rate changes. This requires multiple parties to collectively approve any changes, reducing the risk of unauthorized or malicious changes. Also Specify a maximum acceptable range for the tax rate. This range should be based on your contract's requirements and business logic.



High Risk

The owner has the authority to set the maximum transaction amount without limit

```
function setMaxTxAmount(uint256 newMaxTx) public onlyOwner {
   MAX_TX_AMOUNT = newMaxTx;
}
```

Recommendation

If owner set newMaxTx to "0". It impossible to trade for anyone except the owner. Add an additional condition that requires the maximum transaction percentage to be greater than 0.



High Risk

The owner has the authority to set the uniswapV2router but there is a lack of input check

```
function setUniswapV2Router(address uniswapV2Router) public onlyOwner {
    _uniswapV2Router = uniswapV2Router;
}
```

Secure Wise

Recommendation

setUniswapV2Router function allows the owner to set the **_uniswapV2Router** address without performing any input validation or checks. If the owner sets an invalid or malicious address (e.g., address 0x0 or a contract that is not a valid Uniswap V2 router), it could result in a situation where no one can sell tokens except the owner, potentially causing a liquidity lock or other critical issues. Implement input validation checks within the **setUniswapV2Router** function to ensure that the provided address is not **null** or **zero** and is a **valid** contract address.

require(uniswapV2Router!= address(0), "Invalid router address"); require(Address.isContract(uniswapV2Router), "Router address must be a contract");



High Risk

Trading Pair Issue

```
function addPair(address pair) public onlyOwner {
   pairs[pair] = true;
}

function removePair(address pair) public onlyOwner {
   pairs[pair] = false;
}
```

Recommendation

addPair and removePair functions allow the owner to add and remove trading pairs, respectively. However, if the owner removes the current trading pair or makes changes to the pairs without proper checks and safeguards, it can lead to severe security risks and issues. Specifically, if the current trading pair is removed or altered, users may not be able to sell or may buy without tax, potentially compromising the contract's functionality and investor interests.

Ensure that there is a default trading pair that is set during contract deployment in the constructor. This default pair should be essential for the contract's functionality, and its removal should not be allowed. Implement restrictions on the removal of trading pairs. For example, you can restrict the removal of the current trading pair, or you can introduce a delay mechanism that prevents immediate changes to pairs. Consider using a time lock or multisignature approval for critical pair changes.



High Risk

After the contract is deployed, the owner creates a pair

function createPair() public onlyOwner {
 pairs[IUniswapV2Factory(IUniswapV2Router02(_uniswapV2Router).factory()).createPair(address(this), IUniswapV2Router02(_uniswapV2Router).WETH())] = true;
}

Recommendation

createPair function allows the owner to create a pair after the contract is deployed. However, it is a potential issue that the pair creation is not performed in the constructor, which means the contract may not work correctly if the owner fails to call the createPair function after deployment. Ensure the contract's functionality is not dependent on the owner calling createPair separately after deployment, you should create the pair in the constructor.



High Risk

The owner has the authority to set the swap token at amount without limit

```
function setSwapTokensAtAmount(uint256 amount) public onlyOwner {
   swapTokensAtAmount = amount;
}
```

Recommendation

swapTokensAtAmount variable represents the minimum amount of tokens required to trigger a swap for ETH, with a value of 0 indicating that no swaps should occur. The owner has the authority to set this value without any restrictions. Ensure proper control over the minimum swap amount while allowing the owner to configure this feature.



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