



Security Assessment CATTIE TOKEN

Vital Block Security **Verified** on November 11th, 2023



 @Vital-Block

 @VB_Audit




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PREPARED FOR:
RED TOKEN



INTRODUCTION

Auditing Firm	 VITAL BLOCK SECURITY
Client Firm	 CATTIE TOKEN
Methodology	Automated Analysis, Manual Code Review
Language	Solidity
Contract	0x2a13808DD6a203aF83A35d3a43167728589b6E4d
Source Code Light	Verified
License	MIT
Centralization	Active ownership
Compiler Version	v0.6.12+commit.27d51765
Blockchain	 ARBITRUM
Website	https://cattieswap.xyz
Discord	https://discord.com/invite/7zhV2wUq5F
Twitter	https://twitter.com/cattieswap
Doc	https://cattieswap.gitbook.io/cattieswap-docs/
Prelim Report Date	November 10 th 2023
Final Report Date	November 11 th 2023

 Verify the authenticity of this report on our GitHub Repo: <https://www.github.com/vital-block>

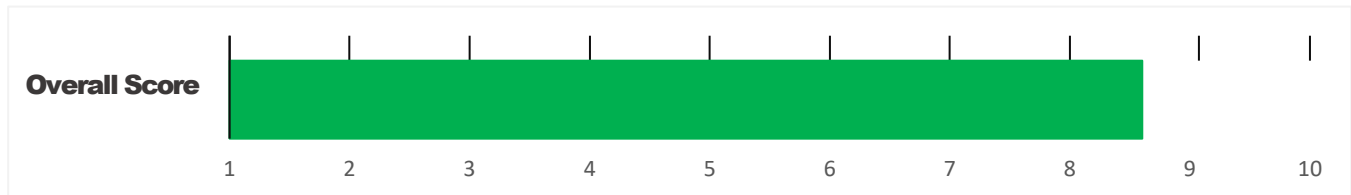


EXECUTIVE SUMMARY

Vital Block Security has performed the automated and manual analysis of the CATTIE TOKEN Sol code. The code was reviewed for common contract vulnerabilities and centralized exploits. Here's a quick audit summary:

Status	Critical ! 🔴	Major " 🟡	Medium # 🟡	Minor \$ 🟢	Unknown % 🟤
Open	0	0	1	3	0
Acknowledged	0	0	1	2	0
Resolved	0	0	0	0	0
Noteworthy OnlyOwner Privileges	Set Taxes and Ratios, Airdrop, Set Protection Settings, Set Reward Properties, Set Reflector Settings, Set Swap Settings, Set Pair and Router				

CATTIE TOKEN Smart contract has achieved the following score: **85.0**



i Please note that smart contracts deployed on blockchains aren't resistant to exploits, vulnerabilities and/or hacks. Blockchain and cryptography assets utilize new and emerging technologies. These technologies present a high level of ongoing risks. For a detailed understanding of risk severity, source code vulnerability, and audit limitations, kindly review the audit report thoroughly.

i Please note that centralization privileges regardless of their inherited risk status - constitute an elevated impact on smart contract safety and security.



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SCOPE OF WORK

Vital Block was consulted by **CATTIE TOKEN** to conduct the smart contract audit of its. Sol source code. The audit scope of work is strictly limited to mentioned .Sol file only:

0. CATTIETOKEN.sol

 External contracts and/or interfaces dependencies are not checked due to being out of scope.

Verify audited contract's contract address and deployed link below:

Public Contract Address	
https://arbiscan.io/token/0x2a13808DD6a203aF83A35d3a43167728589b6E4d	
Contract Name	CATTIE TOKEN
Token Symbol	CTS
Decimals	18



AUDIT METHODOLOGY

Smart contract audits are conducted using a set of standards and procedures. Mutual collaboration is essential to performing an effective smart contract audit. Here's a brief overview of Vital Block

Security auditing process and methodology:

CONNECT

- The onboarding team gathers source codes, and specifications to make sure we understand the size, and scope of the smart contract audit.

AUDIT

- Automated analysis is performed to identify common contract vulnerabilities. We may use the following third-party frameworks and dependencies to perform the automated analysis:
 - Remix IDE Developer Tool
 - Open Zeppelin Code Analyzer
 - SWC Vulnerabilities Registry
 - DEX Dependencies, e.g., Pancakeswap, Uniswap
- Simulations are performed to identify centralized exploits causing contract and/or trade locks.
- A manual line-by-line analysis is performed to identify contract issues and centralized privileges.

We may inspect below mentioned common contract vulnerabilities, and centralized exploits:

Centralized Exploits	<ul style="list-style-type: none">○ Token Supply Manipulation○ Access Control and Authorization○ Assets Manipulation○ Ownership Control○ Liquidity Access○ Stop and Pause Trading○ Ownable Library Verification
----------------------	---



Common Contract Vulnerabilities

- **Integer Overflow**
- **Lack of Arbitrary limits**
- **Incorrect Inheritance Order**
- **Typographical Errors**
- **Requirement Violation**
- **Gas Optimization**
- **Coding Style Violations**
- **Re-entrancy**
- **Third-Party Dependencies**
- **Potential Sandwich Attacks**
- **Irrelevant Codes**
- **Divide before multiply**
- **Conformance to Solidity Naming Guides**
- **Compiler Specific Warnings**
- **Language Specific Warnings**

REPORT

- **The auditing team provides a preliminary report specifying all the checks which have been performed and the findings thereof.**
- **The client's development team reviews the report and makes amendments to the codes.**
- **The auditing team provides the final comprehensive report with open and unresolved issues.**

PUBLISH

- **The client may use the audit report internally or disclose it publicly.**

 **It is important to note that there is no pass or fail in the audit, it is recommended to view the audit as an unbiased assessment of the safety of solidity codes.**



RISK CATEGORIES

Smart contracts are generally designed to hold, approve, and transfer tokens. This makes them very tempting attack targets. A successful external attack may allow the external attacker to directly exploit. A successful centralization-related exploit may allow the privileged role to directly exploit. All risks which are identified in the audit report are categorized here for the reader to review:

Risk Type	Definition
Critical ! 🔴	These risks could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
Major " 🟡	These risks are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to high-risk severity.
Medium # 🟡	These risks should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution. Low-risk re-entrancy-related vulnerabilities should be fixed to deter exploits.
Minor \$ 🟢	These risks do not pose a considerable risk to the contract or those who interact with it. They are code-style violations and deviations from standard practices. They should be highlighted and fixed nonetheless.
Unknown % 🟤	These risks pose uncertain severity to the contract or those who interact with it. They should be fixed immediately to mitigate the risk uncertainty.

All statuses which are identified in the audit report are categorized here for the reader to review:

Status Type	Definition
Open	Risks are open.
Acknowledged	Risks are acknowledged, but not fixed.
Resolved	Risks are acknowledged and fixed.



CENTRALIZED PRIVILEGES

Centralization risk is the most common cause of cryptography asset loss. When a smart contract has a privileged role, the risk related to centralization is elevated.

There are some well-intended reasons have privileged roles, such as:

- **Privileged roles can be granted the power to `pause()` the contract in case of an external attack.**
- **Privileged roles can use functions like, `include()`, and `exclude()` to add or remove wallets from fees, swap checks, and transaction limits. This is useful to run a presale and to list on an exchange.**

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Lately, centralization-related losses are increasing in frequency and magnitude.






- **The client can lower centralization-related risks by implementing below mentioned practices:**
- **Privileged role's private key must be carefully secured to avoid any potential hack.**
- **Privileged role should be shared by multi-signature (multi-sig) wallets.**
- **Authorized privilege can be locked in a contract, user voting, or community DAO can be introduced to unlock the privilege.**
- **Renouncing the contract ownership, and privileged roles.**
- **Remove functions with elevated centralization risk.**

 Understand the project's initial asset distribution. Assets in the liquidity pair should be locked.

Assets outside the liquidity pair should be locked with a release schedule.



AUTOMATED ANALYSIS

Symbol	Definition
	Function modifies state
	Function is payable
	Function is internal
	Function is private
	Function is important

```

**CATTIE TOKEN** | Interface | |||
| L | totalSupply | External | ! | NO |
| L | decimals | External | ! | NO |
| L | symbol | External | ! | NO |
| L | name | External | ! | NO |
| L | getOwner | External | NO |
| L | balanceOf | External | ! | NO |
| L | transfer | External | " ! ! | NO |
| L | allowance | External | ! | NO |
| L | approve | External | " ! ! | NO |
| L | transferFrom | External | " | NO |
|||||
**IFactoryV2** | Interface | |||
| L | getPair | External | NO | |
| L | createPair | External | " | NO |
|||||
**IV2Pair** | Interface | |||
| L | factory | External | NO | |
| L | getReserves | External | NO |
| L | sync | External | " | NO |

```



```
|||||
```

```
| **IRouter01** | Interface | |||
```

```
| L | factory | External ¶ | |NO¶|
```

```
| L | Sol | External ¶ | |NO¶|
```

```
| L | addLiquidityETH | External ¶ | # |NO¶|
```

```
| L | addLiquidity | External ¶ | " |NO¶|
```

```
| L | swapExactETHorTokens | External ¶ | # |NO¶|
```

```
| L | getAmountsOut | External ¶ | |NO¶|
```

```
| L | getAmountsIn | External ¶ | |NO¶|
```

```
|||||
```

```
| **IRouter02** | Interface | IRouter01 |||
```

```
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ¶ | " |NO¶|
```

```
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External ¶ | # |NO¶|
```

```
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ¶ | " ! 🚫 |NO¶|
```

```
| L | swapExactTokensForTokens | External ¶ | " |NO¶|
```

```
|||||
```

```
| **Protections** | Interface | |||
```

```
| L | checkUser | External ¶ | " ! 🚫 |NO¶|
```

```
| L | setLaunch | External ¶ | " |NO¶|
```

```
| L | setLpPair | External ¶ | " |NO¶|
```

```
| L | CTS | External ¶ | " |NO¶|
```

```
| L | removeSniper | External ¶ | " |NO¶|
```

```
|||||
```

```
| **Cashier** | Interface | |||
```

```
| L | setRewardsProperties | External ¶ | " |NO¶|
```

```
| L | tally | External ¶ | " |NO¶|
```

```
| L | load | External ¶ | # |NO¶|
```

```
| L | cashout | External ¶ | " |NO¶|
```

```
| L | giveMeWelfarePlease | External ¶ | " |NO¶|
```

```
| L | getTotalDistributed | External ¶ | |NO¶|
```

```
| L | getUserInfo | External ¶ | |NO¶|
```

```
| L | getUserRealizedRewards | External ¶ | |NO¶|
```



```

| L | getPendingRewards | External | | | NO |
| L | initialize | External | | " | NO |
| L | getCurrentReward | External | | | NO |
|||||
| **SOL** | Implementation | SafeMath | |||
| L | <Constructor> | Public | | # | NO |
| L | transferOwner | External | | " | onlyOwner |
| L | renounceOwnership | External | | " | NO |
| L | setOperator | Public | | " | NO |
| L | renounceOriginalDeployer | External | | " | NO |
| L | <Receive ETH> | External | | # | NO |
| L | totalSupply | External | | | NO |
| L | decimals | External | | | NO |
| L | symbol | External | | | NO |
| L | name | External | | | NO |
| L | getOwner | External | | ! | NO |
| L | balanceOf | Public | | ! | NO |
| L | allowance | External | | ! | NO |
| L | approve | External | | " ! | NO |
| L | _approve | Internal | $ | " | NO |
| L | approveContractContingency | Public | | " ! | onlyOwner |
| L | transfer | External | | " | NO |
| L | transferFrom | External | | " | NO |
| L | setNewRouter | External | | " | onlyOwner |
| L | setLpPair | External | | " | onlyOwner |
| L | setInitializers | External | | " | onlyOwner |
| L | isExcludedFromFees | External | | | NO |
| L | isExcludedFromDividends | External | | | NO |
| L | isExcludedFromProtection | External | | | NO |
| L | setDividendExcluded | Public | | " | onlyOwner |
| L | setExcludedFromFees | Public | | " | onlyOwner |

```

CTT-01 POSSIBLE OVERFLOW

Category	Severity ●	Location	Status
Suboptimal	Minor	Contract/code/Cattie Token	Acknowledged

Description

In `updateForTokenSupply`, Relevant Function Snippet

```
function totalSupply() public view override returns (uint256) {  
    return _totalSupply; }
```

```
Function balanceOf(address account) public view override  
returns (uint256) { return _balances[account]; }
```

`totalSupply()` should be declared external: -
`FaucetToken.totalSupply()` (`FaucetToken.sol#120-122`)

`balanceOf(address)` should be declared external: - `FaucetToken.balanceOf(address)`
(`FaucetToken.sol#127-129`).

Recommendation

We recommend either checking for overflow in this case, or ensuring that the `PairsIn` is close enough it will never cause an overflow

CST-02 POSSIBLE OVERFLOW

Category	Severity ●	Location	Status
Status Mathematical Operations	Minor	Contract/code/Cattie Token	Acknowledged

Description

In `updateForMinter`, the following equation is used inside an unchecked block

```
Mint function: FaucetToken.mint(address,uint256) (FaucetToken.sol 70-73) - in internal call: _mint(account,amount) -  
In expression: balances[account] = balances[account].add(amount)
```

Minter can issue more **CTS tokens** indefinitely.

Note that as of the date of publishing, the above review reflects the current understanding of known security patterns as they relate to the `CTS` contract.

Recommendation

We recommend either checking for overflow in this case, or ensuring that the `PairsIn` is close enough it will never cause an overflow.

CST-02 POSSIBLE OVERFLOW

Category	Severity ●	Location	Status
Status Mathematical Operations	Minor	Contract/code/Cattie Token	Acknowledged

Description

In `updateCTSMint` , Relevant Function Snippet

```
Mint function mint(address account, uint256 amount) public { require(_minters[msg.sender], "FaucetToken: forbidden"); _mint(account, amount); }
```

Mint max supply

Not found.

Mint Time lock

Not found.

Governance:

Hidden Owner

Recommendation

We recommend Making Mint Parameter Open on Standers flow in this case, or ensuring that the Governance is open to your community.



FZT-03 POSSIBLE OVERFLOW

Category	Severity ●	Location	Status
Inconsistency	Informational	Contract/code/Cattie Token	Acknowledged

Description

In `updateFormmapping`, the following equation is used inside an unchecked block






```
mapping(address => uint256) private _balances;  
mapping(address => mapping(address => uint256)) private _allowances;  
  
mapping(address => bool) private _minters;
```

The function `mapping()` does not have the override specifier. It should be noted that since `price0 >` a function that overrides only a single interface function does not require the override specifier (see doc). However, all other instances of this in the code base contain the override specifier.

Recommendation

We recommend either checking for overflow in this case, or ensuring that the `PairsIn` is close enough it will never cause an overflow.

OPTIMIZATIONS | CATTIE TOKEN

ID	Title	Category	Status
FTV	Logarithm Refinement Optimization	Gas Optimization	Acknowledged 
FOP	Checks Can Be Performed Earlier	Gas Optimization	Acknowledged 
FDP	Unnecessary Use Of SafeMath	Gas Optimization	Acknowledged 
FWY	Struct Optimization	Gas Optimization	Acknowledged 
FGT	Unused State Variable	Gas Optimization	Acknowledged 

General Detectors

Public Functions Should be Declared External

Some functions in this contract should be declared as external in order to save gas.









































Attention
Required

Uninitialized Local Variables

This contract's local variables are not all initialized, potentially resulting in lost funds or other exploits.



Attention
Required

- | | |
|--|--|
|  No compiler version inconsistencies found |  No tautologies or contradictions found |
|  No unchecked call responses found |  No faulty true/false values found |
|  No vulnerable self-destruct functions found |  No innacurate divisions found |
|  No assertion vulnerabilities found |  No redundant constructor calls found |
|  No old solidity code found |  No vulnerable transfers found |
|  No external delegated calls found |  No vulnerable return values found |
|  No external call dependency found |  No uninitialized local variables found |
|  No vulnerable authentication calls found |  No default function responses found |
|  No invalid character typos found |  No missing arithmetic events found |
|  No RTL characters found |  No missing access control events found |
|  No dead code found |  No redundant true/false comparisons found |
|  No risky data allocation found |  No state variables vulnerable through function calls found |
|  No uninitialized state variables found |  No buggy low-level calls found |
|  No uninitialized storage variables found |  No expensive loops found |
|  No vulnerable initialization functions found |  No bad numeric notation practices found |
|  No risky data handling found |  No missing constant declarations found |
|  No number accuracy bug found |  No missing external function declarations found |
|  No out-of-range number vulnerability found |  No vulnerable payable functions found |
|  No map data deletion vulnerabilities found |  No vulnerable message values found |



Vulnerability Scan

REENTRANCY

✓ No reentrancy risk found

Severity Minor

Confidence Parameter Certain

✗ General Detectors: Public Functions Should be Declared External

Issue Location in Code

`mint(address,uint256)` should be declared `external`: -
FaucetToken.`mint(address,uint256)` (FaucetToken.sol#70-73)

Relevant Function Snippet

```
function mint(address account, uint256 amount) public {
    require(!_minters[msg.sender], "FaucetToken: forbidden");
    _mint(account, amount); }
```

Issue Location in Code

`burn(address,uint256)` should be declared `external`: -
FaucetToken.`burn(address,uint256)` (FaucetToken.sol#75-78)

Relevant Function Snippet

```
function burn(address account, uint256 amount) public {
    require(msg.sender == account, "FaucetToken: forbidden");
    _burn(account, amount); }
```

`setMinter(address,bool)` should be declared `external`: -
FaucetToken.`setMinter(address,bool)` (FaucetToken.sol#80-83)

Relevant Function Snippet

```
function setMinter(address account, bool enable) public {
    require(msg.sender == _gov, "FaucetToken: forbidden");
    _minters[account] = enable; }
```

`symbol()` should be declared `external`: - FaucetToken.`symbol()`
(FaucetToken.sol#96-98)

Relevant Function Snippet

```
function symbol() public view returns (string memory) { return
    _symbol; }
```

Alleviation:

Note That All Findings Can Remain Normal Based On The Dev Project Plan.

Vulnerability Description

Scanning Line:



Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor 

```
function transfer(address recipient, uint256 amount) public virtual  
override returns (bool) { _transfer(_msgSender(), recipient, amount);  
return true; }
```

Description:

Floating point calculations can vary across different architectures.

Alleviation:

This exhibit was acknowledged and ultimately discarded by the **CATTIE TOKEN** team due to low severity. We consider the exhibit fully attended to as it doesn't impose any meaningful security concerns.

RECOMMENDATION

Project stakeholders should be consulted during the initial asset distribution process.



Contract Owner Address:

<https://arbiscan.io/address/0x10f1fca8409962f241e375a9756e48967f02f44c>

Audited Files

CATTIETOKEN.SOL

Contracts:

Contract

CATTIETOKEN: :0x2a13808DD6a203aF83A35d3a43167728589b6E4d



Vulnerability Run check


Cattie Token / CTS

10/11/2023 09:45 PM UTC+8


Contract Info

Total supply 0
Transaction Tax Buy 0.00% / Sell 0.00%

Risk Analysis

 **Contract source code verified**

This token contract is open source. You can check the contract code for details. Unsourced token contracts are likely to have malicious functions to defraud their users of their assets.


 **Mint function**

The contract may contain additional issuance functions, which could maybe generate a large number of tokens, resulting in significant fluctuations in token prices. It is recommended to confirm with the project team whether it complies with the token issuance instructions.


 **Owner cant change balance**

The contract owner does not have the authority to modify the balance of tokens at other addresses.

Honeypot Risk

 **This does not appear to be a honeypot**


We are not aware of any code that prevents the sale of tokens.

 **No Anti Whale**

There is no limit to the number of token transactions. The number of scam token transactions may be limited (honeypot risk).

 **No whitelist function**

Whitelist function found


 **No Proxy**

There is no proxy in the contract. The proxy contract means contract owner can modify the function of the token and possibly effect the price.




No function to retrieve ownership

If this function exists, it is possible for the project owner to regain ownership even after relinquishing it.

 **No trading cooldown**

The token contract has no trading cooldown function. If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying.

 **No blacklist function**

No blacklist function is included.

Holders

Holder count 0

Creator

0x10...f44c

OWNERSHIP NOT RENOUNCED

0.00 (0.00%)

Owner

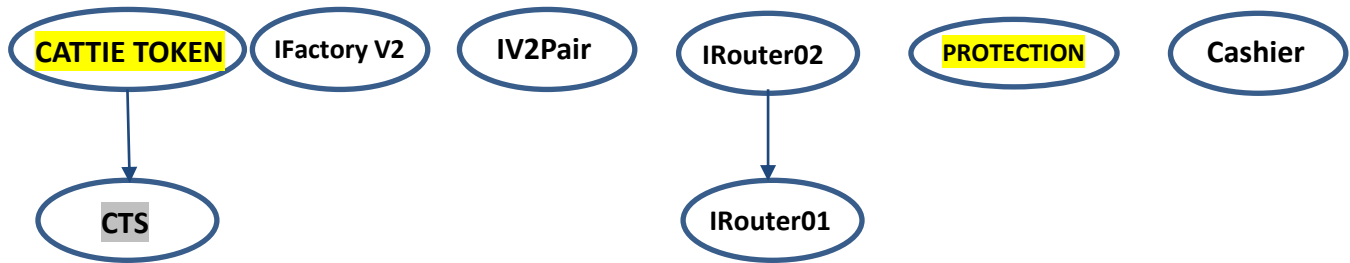
0x10...f44c

0.00 (0.00%)

Liquidity Pool



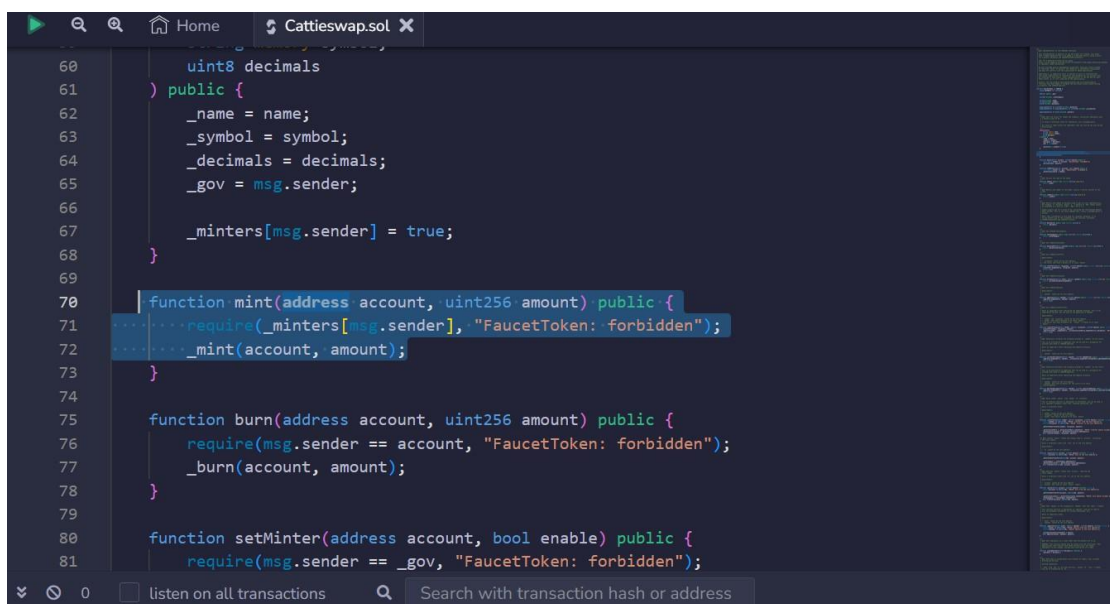
INHERITANCE GRAPH



Identifier	Definition	Severity
CEN-12	Centralization privileges of CATTIE TOKEN	Medium # 🟡

Vulnerability 1 : No important security issue detected.

Threat level: **Low**



```

60     uint8 decimals
61   } public {
62     _name = name;
63     _symbol = symbol;
64     _decimals = decimals;
65     _gov = msg.sender;
66
67     _minters[msg.sender] = true;
68   }
69
70   function mint(address account, uint256 amount) public {
71     ...require(_minters[msg.sender], "FaucetToken: forbidden");
72     ..._mint(account, amount);
73   }
74
75   function burn(address account, uint256 amount) public {
76     require(msg.sender == account, "FaucetToken: forbidden");
77     _burn(account, amount);
78   }
79
80   function setMinter(address account, bool enable) public {
81     require(msg.sender == _gov, "FaucetToken: forbidden");
  
```

MANUAL REVIEW

CattieSwap is Layer-2 DEX and Launchpad - Cutting-edge, fast and secure trading experience protocol on Scroll. With taking all of advantages of Scroll: Secure, Low-cost and Fast, CattieSwap offer a smooth, low gas fees and exceptionally secure trading experience.

TOKEN NAME: CATTIE TOKEN

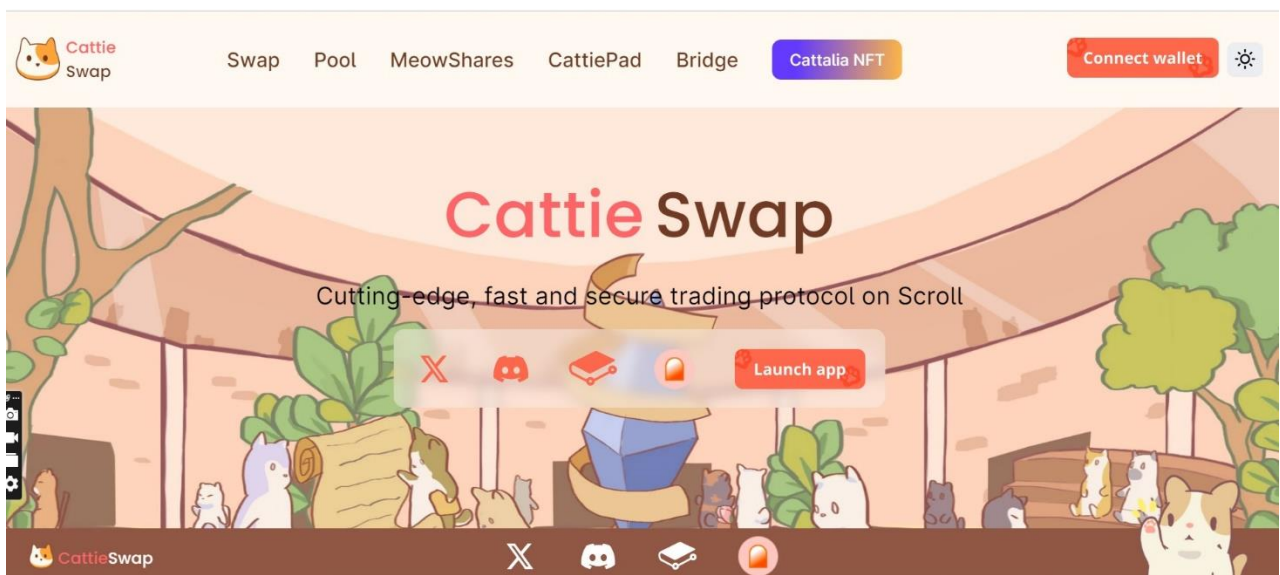
Ticker: CTS

Chain/Standard: Arbitrum Network

LAUNGUGE: Solidity



The CATTIE SWAP Platform Is Launching On the ARBITRUM Network





ISSUES CHECKING STATUS

Issue Description

Checking Status

1.	Compiler errors.	PASSED
2.	Race Conditions and reentrancy. Cross-Function Race Conditions.	PASSED
3.	Possible Delay In Data Delivery.	PASSED
4.	Oracle calls.	PASSED
5.	Front Running.	PASSED
6.	SOL Dependency.	PASSED
7.	Integer Overflow And Underflow.	PASSED
8.	DoS with Revert.	PASSED
9.	Dos With Block Gas Limit.	PASSED
10.	Methods execution permissions.	PASSED
11.	Economy Model of the contract.	PASSED
12.	The Impact Of Exchange Rate On the sol Logic.	PASSED
13.	Private use data leaks.	PASSED
14.	Malicious Event log.	PASSED
15.	Scoping and Declarations.	PASSED
16.	Uninitialized storage pointers.	PASSED
17.	Arithmetic accuracy.	PASSED
18.	Design Logic.	PASSED
19.	Cross-Function race Conditions	PASSED
20.	Save Upon Move contract Implementation and Usage.	PASSED
21.	Fallback Function Security	PASSED



AUDIT RESULT

PASSED

SMART CONTRACT AUDIT OF CATTIESWAP

Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor 

All of the initially minted assets are sent to the contract deployer when deploying the contract. This can be an issue as the deployer and/or contract owner can distribute tokens without consulting the community.

```
function allowance(address owner, address spender) public view virtual override
returns (uint256) {
    return _allowances[owner][spender];
}
```

RECOMMENDATION

Project stakeholders should be consulted during the initial asset distribution process.



RECOMMENDATION

Deployer and/or contract owner private keys are secured carefully.

Please refer to PAGE-09 **CENTRALIZED PRIVILEGES for a detailed understanding.**

ALLEVIATION

The **CATTIE TOKEN project team understands the centralization risk. Some functions are provided privileged access to ensure a good runtime behavior in the project**



Identifier	Definition	Severity
COD-10	Third Party Dependencies	Minor 

Smart contract is interacting with third party protocols e.g., Pancakeswap router, cashier contract, protections contract. The scope of the audit treats third party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised, and exploited. Moreover, upgrades in third parties can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.

RECOMMENDATION

Inspect and validate third party dependencies regularly, and mitigate severe impacts whenever necessary.



CERTIFICATE BY VITAL BLOCK SECURITY



DISCLAIMERS

Vital Block provides the easy-to-understand audit of Solidity, Move and Raw source codes (commonly known as smart contracts).

The smart contract for this particular audit was analyzed for common contract vulnerabilities, and centralization exploits. This audit report makes no statements or warranties on the security of the code. This audit report does not provide any warranty or guarantee regarding the absolute bug-free nature of the smart contract analyzed, nor do they provide any indication of the client's business, business model or legal compliance. This audit report does not extend to the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. Cryptographic tokens are emergent technologies, they carry high levels of technical risks and uncertainty. You agree that your access and/or use, including but not limited to any services, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. This audit report could include false positives, false negatives, and other unpredictable results.

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Vital Block is Dedicated to Making Defi & Web3 A Safer Place. We are Powered by Security engineers, developers, UI experts, and blockchain enthusiasts. Our team currently consists of 5 core members, and 4+ casual contributors.

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