

Security Assessment

# Growilla

Verified on 9/20/24



#### **SUMMARY**

Project		CHAIN		METHODOLOGY		
Growilla		TRON Manual & Automatic Analysis		natic Analysis		
FILES Single		DELI 9/20/	IVERY /24	TYPE Standard Audit		
	1	0	0	0	0	1
0 Critical	Total Findings	Critical	Major	Medium		Informational  can affect the contract al events that can risk and ct
0 Major					when using the co	can affect the outcome ontract that can serve as nipulating the contract in ner
0 Medium					An opening that c executing the con	ould affect the outcome in tract in a specific situation
0 Minor					An opening but do the functionality o	pesn't have an impact on f the contract
1 Informational				An opening that consists information but will not risk or affect the contract		
STATUS	<b>√</b> AUE	OIT PASSI	ED			



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### **DISCLAIMER** Growilla

<u>ContractWolf</u> audits and reports should not be considered as a form of project's "Advertisement" and does not cover any interaction and assessment from "Project Contract" to "External Contracts" such as PancakeSwap, UniSwap, SushiSwap or similar.

**ContractWolf** does not provide any <u>warranty</u> on its released report and should not be used as a <u>decision</u> to invest into audited projects.

**ContractWolf** provides a transparent report to all its "Clients" and to its "Clients Participants" and will not claim any guarantee of bug-free code within its **SMART CONTRACT**.

**ContractWolf**'s presence is to analyze, audit and assess the Client's Smart Contract to find any underlying risk and to eliminate any logic and flow errors within its code.

Each company or project should be liable to its security flaws and functionalities.



# SCOPE OF WORK Growilla

**Growilla** team has agreed and provided us with the files that need to be tested (*Github*, *BSCscan*, *Etherscan*, *Local files etc*). The scope of audit is the main contract.

The goal of this engagement is to identify if there is a possibility of security flaws in the implementation of smart contract and its systems.

ContractWolf will be focusing on contract issues and functionalities along with the project claims from smart contract to their website, whitepaper, repository which has been provided by **Growilla**.



### AUDITING APPROACH Growilla

Every line of code along with its functionalities will undergo manual review to check for security issues, quality of logic and contract scope of inheritance. The manual review will be done by our team that will document any issues that they discovered.

#### **METHODOLOGY**

The auditing process follows a routine series of steps:

- 1. Code review that includes the following:
- Review of the specifications, sources and instructions provided to ContractWolf to make sure we understand the size, scope and functionality of the smart contract.
- Manual review of code. Our team will have a process of reading the code line-by-line with the intention of identifying potential vulnerabilities, underlying and hidden security flaws.
- 2. Testing and automated analysis that includes :
- Testing the smart contract function with common test cases and scenarios to ensure that it returns the expected results.
- 3. Best practices and ethical review. The team will review the contract with the aim to improve efficiency, effectiveness, clarifications, maintainability, security and control within the smart contract.
- 4. Recommendations to help the project take steps to eliminate or minimize threats and secure the smart contract.



# TOKEN DETAILS Growilla



The gaming world is evolving, and Growilla's Jungle Quest is at the forefront of that change, blending engaging gameplay, blockchain technology, and real-world environmental impact.

Token Name	Symbol	Decimal	Total Supply	Chain
Growilla	GRWL	18	1,000,000,000	TRON

### SOURCE

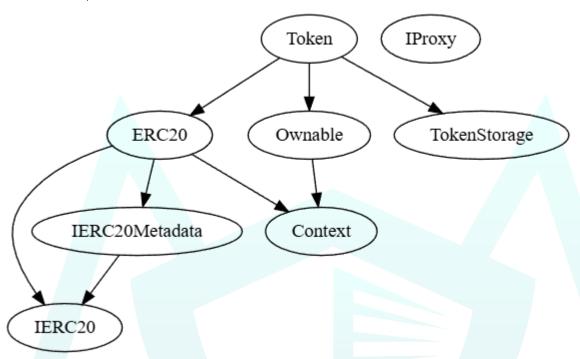
Source

TM9w3bhoabwR7cGekJBRNBxUHTW2GkPm78



### INHERITANCE GRAPH Growilla

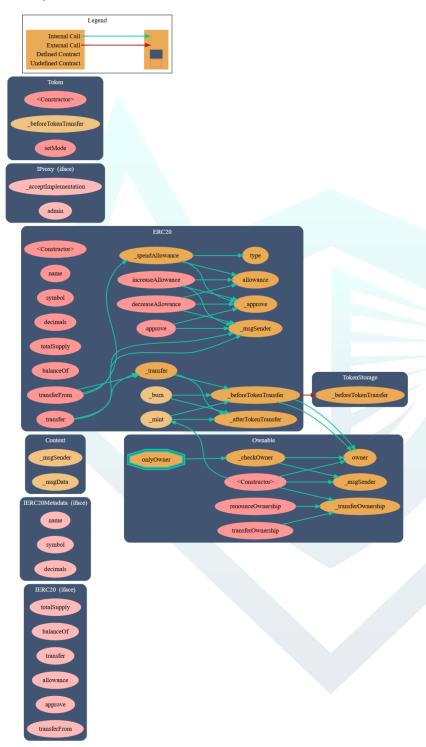
Inheritance Graph of Contract Functions





### CALL GRAPH Growilla

Call Graph of Contract Functions





# FINDINGS Growilla



This report has been prepared to state the issues and vulnerabilities for Growilla through this audit. The goal of this report findings is to identify specifically and fix any underlying issues and errors

ID	Title	File & Line #	Severity	Status
SWC-102	Outdated Compiler Version	Token.sol	Informational	<ul><li>Pending</li></ul>



# SWC ATTACKS Growilla

Smart Contract Weakness Classification and Test Cases

ID	Description	Status
SWC-100	Function Default Visibility	<ul> <li>Passed</li> </ul>
SWC-101	Integer Overflow and Underflow	<ul> <li>Passed</li> </ul>
SWC-102	Outdated Compiler Version	<ul> <li>Not Passed</li> </ul>
SWC-103	Floating Pragma	<ul> <li>Passed</li> </ul>
SWC-104	Unchecked Call Return Value	<ul> <li>Passed</li> </ul>
SWC-105	Unprotected Ether Withdrawal	<ul> <li>Passed</li> </ul>
SWC-106	Unprotected SELF DESTRUCT Instruction	<ul> <li>Passed</li> </ul>
SWC-107	Reentrancy	<ul> <li>Passed</li> </ul>
SWC-108	State Variable Default Visibility	<ul> <li>Passed</li> </ul>
SWC-109	Uninitialized Storage Pointer	<ul> <li>Passed</li> </ul>
SWC-110	Assert Violation	<ul> <li>Passed</li> </ul>
SWC-111	Use of Deprecated Solidity Functions	<ul> <li>Passed</li> </ul>
SWC-112	Delegatecall to Untrusted Callee	<ul> <li>Passed</li> </ul>
SWC-113	DoS with Failed Call	<ul> <li>Passed</li> </ul>
SWC-114	Transaction Order Dependence	<ul> <li>Passed</li> </ul>
SWC-115	Authorization through tx.origin	<ul> <li>Passed</li> </ul>
SWC-116	Block values as a proxy for time	<ul> <li>Passed</li> </ul>
SWC-117	Signature Malleability	<ul> <li>Passed</li> </ul>
SWC-118	Incorrect Constructor Name	<ul> <li>Passed</li> </ul>
SWC-119	Shadowing State Variables	<ul> <li>Passed</li> </ul>
SWC-120	Weak Sources of Randomness from Chain Attributes	<ul> <li>Passed</li> </ul>
SWC-121	Missing Protection against Signature Replay Attacks	<ul> <li>Passed</li> </ul>
SWC-122	Lack of Proper Signature Verification	<ul> <li>Passed</li> </ul>



ID	Description	Status
SWC-123	Requirement Violation	<ul> <li>Passed</li> </ul>
SWC-124	Write to Arbitrary Storage Location	<ul> <li>Passed</li> </ul>
SWC-125	Incorrect Inheritance Order	<ul> <li>Passed</li> </ul>
SWC-126	Insufficient Gas Griefing	<ul> <li>Passed</li> </ul>
SWC-127	Arbitrary Jump with Function Type Variable	<ul> <li>Passed</li> </ul>
SWC-128	DoS With Block Gas Limit	<ul> <li>Passed</li> </ul>
SWC-129	Typographical Error	<ul> <li>Passed</li> </ul>
SWC-130	Right-To-Left-Override control character(U+202E)	<ul> <li>Passed</li> </ul>
SWC-131	Presence of unused variables	<ul> <li>Passed</li> </ul>
SWC-132	Unexpected Ether balance	<ul> <li>Passed</li> </ul>
SWC-133	Hash Collisions With Multiple Variable Arguments	<ul> <li>Passed</li> </ul>
SWC-134	Message call with hardcoded gas amount	<ul><li>Passed</li></ul>
SWC-135	Code With No Effects	<ul><li>Passed</li></ul>
SWC-136	Unencrypted Private Data On-Chain	<ul><li>Passed</li></ul>



### CW ASSESSMENT Growilla

ContractWolf Vulnerability and Security Tests

ID	Name	Description	Status
CW-001	Multiple Version	Presence of multiple compiler version across all contracts	V
CW-002	Incorrect Access Control	Additional checks for critical logic and flow	<b>V</b>
CW-003	Payable Contract	A function to withdraw ether should exist otherwise the ether will be trapped	V
CW-004	Custom Modifier	major recheck for custom modifier logic	<b>V</b>
CW-005	Divide Before Multiply	Performing multiplication before division is generally better to avoid loss of precision	<b>V</b>
CW-006	Multiple Calls	Functions with multiple internal calls	<b>V</b>
CW-007	Deprecated Keywords	Use of deprecated functions/operators such as block.blockhash() for blockhash(), msg.gas for gasleft(), throw for revert(), sha3() for keccak256(), callcode() for delegatecall(), suicide() for selfdestruct(), constant for view or var for actual type name should be avoided to prevent unintended errors with newer compiler versions	<b>V</b>
CW-008	Unused Contract	Presence of an unused, unimported or uncalled contract	<b>V</b>
CW-009	Assembly Usage	Use of EVM assembly is error-prone and should be avoided or double-checked for correctness	<b>V</b>
CW-010	Similar Variable Names	Variables with similar names could be confused for each other and therefore should be avoided	V
CW-011	Commented Code	Removal of commented/unused code lines	<b>V</b>
CW-012	SafeMath Override	SafeMath is no longer needed starting with Solidity v0.8+. The compiler now has built-in overflow checking.	<b>V</b>



#### **FIXES & RECOMMENDATION**

**SWC-103** A Floating Pragma is Set

Code

pragma solidity 0.8.6;

Using an outdated compiler version can be problematic especially if there are publicly disclosed bugs and issues that affect the current compiler version. It is recommended to use a recent version of the Solidity compiler.

pragma solidity 0.8.26;



### AUDIT COMMENTS Growilla

Smart Contract audit comment for a non-technical perspective

- Owner can pause/unpause trading
- Contract has no fees
- Owner can renounce and transfer ownership
- Owner cannot burn tokens
- Owner cannot mint after initial deployment
- Owner cannot set max transaction limit
- Owner cannot block users



# CONTRACTWOLF

**Blockchain Security - Smart Contract Audits**