

Security Assessment: **Fort Block Games Token**





January 29, 2024

- Audit Status: **Pass**
- Audit Edition: **Standard**
































Risk Analysis

Classifications of Manual Risk Results

Classification	Description
 Critical	Danger or Potential Problems.
 High	Be Careful or Fail test.
 Low	Pass, Not-Detected or Safe Item.
 Informational	Function Detected

Manual Code Review Risk Results

Contract Privilege	Description
 Buy Tax	4%
 Sale Tax	4%
 Cannot Sale	Pass
 Cannot Sale	Pass
 Max Tax	4%
 Modify Tax	No
 Fee Check	Pass
 Is Honeypot?	Not Detected
 Trading Cooldown	Not Detected
 Can Pause Trade?	Pass
 Pause Transfer?	Not Detected
 Max Tx?	Pass
 Is Anti Whale?	Not Detected
 Is Anti Bot?	Not Detected

Contract Privilege	Description
 Is Blacklist?	Not Detected
 Blacklist Check	Pass
 is Whitelist?	Detected
 Can Mint?	Pass
 Is Proxy?	Not Detected
 Can Take Ownership?	Not Detected
 Hidden Owner?	Not Detected
 Owner	0x0580Fc95d0531E8e45Cfa30b910cB4cc5374540b
 Self Destruct?	Not Detected
 External Call?	Detected
 Other?	Not Detected
 Holders	1
 Auditor Confidence	High
 KYC Present	No
 KYC URL	

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.

Project Overview

Token Summary

Parameter	Result
Address	
Name	Fort Block Games
Token Tracker	Fort Block Games (FGB)
Decimals	18
Supply	777,000,000
Platform	BNBCHAIN
compiler	0.8.19+commit.7dd6d404
Contract Name	FGB
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	
Payment Tx	Corporate

Main Contract Assessed Contract Name

Name	Contract	Live
Fort Block Games		No

TestNet Contract Assessed Contract Name

Name	Contract	Live
Fort Block Games	0x4298C180d1608dCd2B1b10962d09903F6Cb52119	No

Solidity Code Provided

SolidID	File Sha-1	FileName
fgbv2	a287c23fc2a1b96832a69cf0f4e33c729a18049a	fgbv2.sol
fgbv2		
fgbv2		
fgbv2		
fgbv2		
fgbv2	undefined	

Smart Contract Vulnerability Checks

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	fgbv2.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	fgbv2.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	fgbv2.sol	L: 0 C: 0
SWC-103	Pass	A floating pragma is set.	fgbv2.sol	L: 0 C: 0
SWC-104	Pass	Unchecked Call Return Value.	fgbv2.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	fgbv2.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	fgbv2.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	fgbv2.sol	L: 0 C: 0
SWC-108	Low	State variable visibility is not set..	fgbv2.sol	L: 82 C: 12
SWC-109	Pass	Uninitialized Storage Pointer.	fgbv2.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	fgbv2.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	fgbv2.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	fgbv2.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	fgbv2.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	fgbv2.sol	L: 0 C: 0

ID	Severity	Name	File	location
SWC-115	Pass	Authorization through tx.origin.	fgbv2.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	fgbv2.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	fgbv2.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	fgbv2.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	fgbv2.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randomness.	fgbv2.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	fgbv2.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	fgbv2.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	fgbv2.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	fgbv2.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	fgbv2.sol	L: 0 C: 0
SWC-126	Pass	Insufficient Gas Griefing.	fgbv2.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	fgbv2.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	fgbv2.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	fgbv2.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U+202E).	fgbv2.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	fgbv2.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	fgbv2.sol	L: 0 C: 0

ID	Severity	Name	File	location
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	fgbv2.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	fgbv2.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	fgbv2.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	fgbv2.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.

Smart Contract Vulnerability Details

SWC-108 - State Variable Default Visibility

CWE-710: Improper Adherence to Coding Standards

Description:

Labeling the visibility explicitly makes it easier to catch incorrect assumptions about who can access the variable.

Remediation:

Variables can be specified as being public, internal or private. Explicitly define visibility for all state variables.

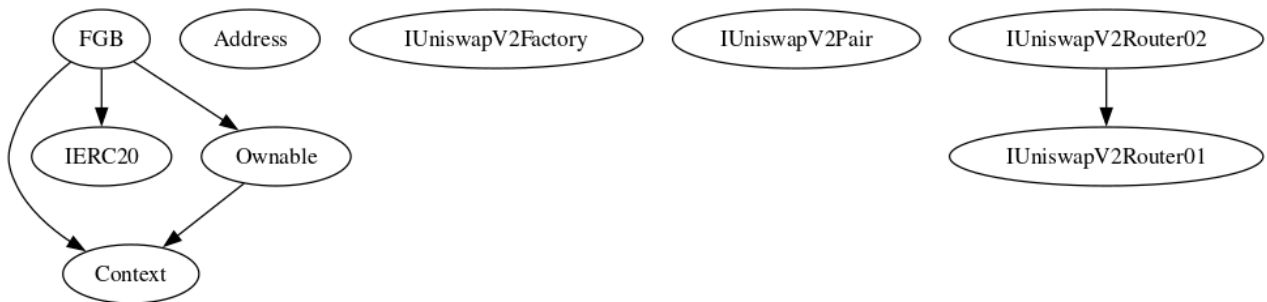
References:

Ethereum Smart Contract Best Practices - Explicitly mark visibility in functions and state variables



Inheritance

The contract for Fort Block Games has the following inheritance structure.

The Project has a Total Supply of 777,000,000



FGB-11 | Ownable has been modified..

Category	Severity	Location	Status
Optimization	 Low	fgbv2.sol: L: 05 C: 14	 Detected

Description

Ownable library has been updated from public to external, same as ERC20 standard functions.






Remediation

Untested or Unnecessary Updates.






Project Action

Technical Findings Summary

Classification of Risk

Severity	Description
 Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
 High	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
 Medium	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
 Low	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
 Informational	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

Findings

Severity	Found	Pending	Resolved
 Critical	0	0	0
 High	0	0	0
 Medium	0	0	0
 Low	1	1	0
 Informational	0	0	0
Total	1	1	0

Social Media Checks

Social Media	URL	Result
Twitter		N/A
Other		N/A
Website		N/A
Telegram		N/A

We recommend to have 3 or more social media sources including a completed working websites.

Social Media Information Notes:

Auditor Notes: undefined

Project Owner Notes:



Assessment Results

Score Results

Review	Score
Overall Score	86/100
Auditor Score	85/100
Review by Section	Score
Manual Scan Score	17
SWC Scan Score	35
Advance Check Score	34

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 84 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below.

Audit Passed



Assessment Results

Important Notes:

- Contract use an unnecessary `setEndTime`.
- Some changes from `erc20` standard libraries.
- Always DYOR.

Auditor Score =85
Audit Passed



Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how `block.timestamp` works.

Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invoke-able by anyone under certain circumstances.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different requirements on the input variables than a setter function.

Coding Best Practices

ERC 20 Coding Standards are a set of rules that each developer should follow to ensure the code meets a set of criteria and is readable by all the developers.

Disclaimer

Assure Defi has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocacy for the Project, and users relying on this report should not consider this as having any merit for financial advice in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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