Audit Report

Game247

January 2022

Type	BEP20
Network	BSC
Address	0xF87b493B51D96ba2e0d3990DAD15B2EB13A7dcbF
Audited by	© coinscope

Table of Contents

Contract Review

Contract Name	GUBG_Token
Compiler Version	v0.8.0+commit.c7dfd78e
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xF87b493B51D96ba2e0d3990DAD15B2EB13A7dcbF
Symbol	GUBG
Decimals	6
Total Supply	1,000,000,000,000,000
Source	contract.sol
Domain	game247.online

Audit Updates

Initial Audit	20th January 2022
Corrected	

Contract Analysis

● Critical   ● Medium   ● Minor   ● Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

ST - Stop Transactions

Criticality	medium
Location	contract.sol#L1

Description

The contract owner has the authority to stop transactions for all users excluding the owner. The owner may take advantage of it by setting the `Accountlimit` to zero.

```solidity
require(Excluded[recipient] == true || _balances[recipient]+amount <=
Accountlimit && amount <= Accountlimit  , "error please Excluded your account"
);
```

Recommendation

The contract could embody a check for not allowing setting the Accountlimit less than a reasonable amount. A suggested implementation could check that the maximum amount should be more than a fixed percentage of the total supply.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

ELFM - Exceed Limit Fees Manipulation

Criticality	medium
Location	contract.sol#L1

Description

The contract owner has the authority to increase over the allowed limit of 25%. The owner may take advantage of it by calling the `setdistributionfee` function with a high percentage value.

```
function setdistributionfee(uint256 amount) public  onlyOwner
{
    distributionfee = amount;
}
```

Recommendation

The contract could embody a check for the maximum acceptable value.

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. That risk can be prevented by temporarily locking the contract or renouncing ownership.

Contract Diagnostics

● Critical   ● Medium   ● Minor

Severity	Code	Description
●	L01	Public Function could be Declared External
●	L04	Conformance to Solidity Naming Conventions
●	L09	Dead Code Elimination
●	L11	Unnecessary Boolean equality
●	L07	Missing Events Arithmetic

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L267,L262,L257 and 15 more

Description

Public functions that are never called by the contract should be declared external to save gas.

```
SetAccountlimit
FalseExcludedAddress
setExcludedAddress
...
```

Recommendation

Use the external attribute for functions never called from the contract

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L137,L120,L267 and 4 more

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
Excluded
Accountlimit
SetAccountlimit
...
```

Recommendation

Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L19,L35,L27 and 1 more

Description

Functions that are not used in the contract, and make the code's size bigger.

```
mul
mod
div
...
```

Recommendation

Remove unused functions.

L11 - Unnecessary Boolean equality

Criticality	minor
Location	contract.sol#L177

Description

The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
istrue[recipient] != true
require(bool,string)(Excluded[recipient] == true || _balances[recipient] +
amount <= Accountlimit && amount <= Accountlimit,error please Excluded your
account)
```

Recommendation

Remove the equality to the boolean constant.

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L267,L252

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
Accountlimit = amount
distributionfee = amount
```

Recommendation

Emit an event for critical parameter changes.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
SafeMath	Library			
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	mod	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Ownable	Implementation			
	<Constructor>	Public	✓	-
	owner	Public		-
	transferOwnership	Public	✓	onlyOwner
GUBG_Token	Implementation	IERC20, Ownable		
	<Constructor>	Public	✓	-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-

	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	burn	Public	✓	onlyOwner
	_approve	Internal	✓	
	_burnFrom	Internal	✓	
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	setdistributionfee	Public	✓	onlyOwner
	setExcludedAddress	Public	✓	onlyOwner
	FalseExcludedAddress	Public	✓	onlyOwner
	SetAccountlimit	Public	✓	onlyOwner

Contract Flow

Domain Info

Domain Name	game247.online
Registry Domain ID	D270468397-CNIC
Creation Date	2022-01-18T11:57:54+00:00
Updated Date	2022-01-18T11:57:57+00:00
Registry Expiry Date	2023-01-18T23:59:59+00:00
Registrar WHOIS Server	whois.porkbun.com
Registrar URL	https://porkbun.com/
Registrar	Porkbun, LLC
Registrar IANA ID	1861

The domain has been created 2 days before the creation of the audit. It will expire in 12 months.

There is no public billing information, the creator is protected by the privacy settings.

Summary

Gubg token is aiming to build a game. The token has a friendly and growing community. There are some functions that can be abused by the owner, like manipulating fees and stopping the transactions. The contract fees are distributed to the holders. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

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