

Audit Report Goge

February 2023

SHA256

2c3064913ef9d69a32e812ef38e2c36ded9962dd6280e12abffd5b0be730344f

Audited by © cyberscope



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Review

Contract Name	Goge
Testing Deploy	https://testnet.bscscan.com/address/0x65870145e7e21a3dcbed9ba722 19a4ce41671d7d
Symbol	GOG
Decimals	18
Total Supply	100,000,000

Audit Updates

Initial Audit	25 Jan 2023
Corrected Phase 2	12 Feb 2023

Source Files

Filename	SHA256
contracts/testingDeploy/sample.sol	2c3064913ef9d69a32e812ef38e2c36ded 9962dd6280e12abffd5b0be730344f

Analysis

Critical
 Medium
 Minor / Informative
 Pass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L12	Using Variables before Declaration	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved
•	L16	Validate Variable Setters	Unresolved



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	contracts/testingDeploy/sample.sol#L33,111,112,113,114,115,129,135,141,142,14 3,144,156,169,377
Status	Unresolved

Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

- 1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
- 2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
- 3. Use uppercase for constant variables and enums (e.g., MAX_VALUE, ERROR_CODE).
- 4. Use indentation to improve readability and structure.
- 5. Use spaces between operators and after commas.
- 6. Use comments to explain the purpose and behavior of the code.
- 7. Keep lines short (around 120 characters) to improve readability.



```
function WETH() external pure returns (address);
uint256 constant private startingSupply = 100_000_000
string constant private _name = "Goge"
string constant private _symbol = "GOG"
uint8 constant private _decimals = 18
uint256 constant private _tTotal = startingSupply * 10**_decimals

Fees public _taxRates = Fees({
            buyFee: 300,
            sellFee: 300,
            transferFee: 0
        })
...
```

Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention.



L07 - Missing Events Arithmetic

Criticality	Minor / Informative
Location	contracts/testingDeploy/sample.sol#L416,426
Status	Unresolved

Description

Events are a way to record and log information about changes or actions that occur within a contract. They are often used to notify external parties or clients about events that have occurred within the contract, such as the transfer of tokens or the completion of a task.

It's important to carefully design and implement the events in a contract, and to ensure that all required events are included. It's also a good idea to test the contract to ensure that all events are being properly triggered and logged.

```
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor
piSwapPercent = priceImpactSwapPercent
```

Recommendation

By including all required events in the contract and thoroughly testing the contract's functionality, the contract ensures that it performs as intended and does not have any missing events that could cause issues with its arithmetic.



L12 - Using Variables before Declaration

Criticality	Minor / Informative
Location	contracts/testingDeploy/sample.sol#L586
Status	Unresolved

Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or if the variable has been declared in a different scope. It is not a good practice to use a local variable before it has been declared.

bool check

Recommendation

By declaring local variables before using them, contract ensures that it operates correctly. It's important to be aware of this rule when working with local variables, as using a variable before it has been declared can lead to unexpected behavior and can be difficult to debug.



L14 - Uninitialized Variables in Local Scope

Criticality	Minor / Informative
Location	contracts/testingDeploy/sample.sol#L585,586
Status	Unresolved

Description

Using an uninitialized local variable can lead to unpredictable behavior and potentially cause errors in the contract. It's important to always initialize local variables with appropriate values before using them.

bool checked
bool check

Recommendation

By initializing local variables before using them, the contract ensures that the functions behave as expected and avoid potential issues.

L16 - Validate Variable Setters

Criticality	Minor / Informative
Location	contracts/testingDeploy/sample.sol#L264
Status	Unresolved

Description

The contract performs operations on variables that have been configured on user-supplied input. These variables are missing of proper check for the case where a value is zero. This can lead to problems when the contract is executed, as certain actions may not be properly handled when the value is zero.

operator = newOperator

Recommendation

By adding the proper check, the contract will not allow the variables to be configured with zero value. This will ensure that the contract can handle all possible input values and avoid unexpected behavior or errors. Hence, it can help to prevent the contract from being exploited or operating unexpectedly.

Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	✓	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-
	sync	External	✓	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-



	addLiquidityETH	External	Payable	-
	addLiquidity	External	✓	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-
	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupportingF eeOnTransferTokens	External	1	-
	swapExactETHForTokensSupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupportin gFeeOnTransferTokens	External	1	-
	swapExactTokensForTokens	External	1	-
Protections	Interface			
	checkUser	External	✓	-
	setLaunch	External	✓	-
	setLpPair	External	✓	-
	setProtections	External	✓	-
	removeSniper	External	✓	-
Goge	Implementation	IERC20		
		Public	Payable	-
		External	Payable	-
	transferOwner	External	✓	onlyOwner
	renounceOwnership	External	✓	onlyOwner
	setOperator	External	✓	-
	renounceOriginalDeployer	External	✓	-
	totalSupply	External		-
	decimals	External		-



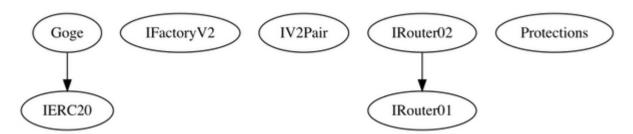
symbol	External		-
name	External		-
getOwner	External		-
allowance	External		-
balanceOf	Public		-
transfer	Public	✓	-
approve	External	✓	-
_approve	Internal	✓	
approveContractContingency	External	✓	onlyOwner
transferFrom	External	✓	-
setNewRouter	External	1	onlyOwner
setLpPair	External	1	onlyOwner
setInitializer	External	1	onlyOwner
isExcludedFromFees	External		-
isExcludedFromProtection	External		-
setExcludedFromFees	Public	1	onlyOwner
setExcludedFromProtection	External	1	onlyOwner
getCirculatingSupply	Public		-
removeSniper	External	1	onlyOwner
setProtectionSettings	External	1	onlyOwner
lockTaxes	External	1	onlyOwner
setTaxes	External	✓	onlyOwner
setRatios	External	✓	onlyOwner
getTokenAmountAtPriceImpact	External		-
setWallets	External	✓	onlyOwner
setSwapSettings	External	✓	onlyOwner
setPriceImpactSwapAmount	External	✓	onlyOwner
setContractSwapEnabled	External	✓	onlyOwner
excludePresaleAddresses	External	✓	onlyOwner



_hasLimits	Internal		
_transfer	Internal	✓	
contractSwap	Internal	✓	inSwapFlag
_checkLiquidityAdd	Internal	✓	
enableTrading	Public	✓	onlyOwner
sweepContingency	External	✓	onlyOwner
multiSendTokens	External	✓	onlyOwner
finalizeTransfer	Internal	✓	
takeTaxes	Internal	✓	

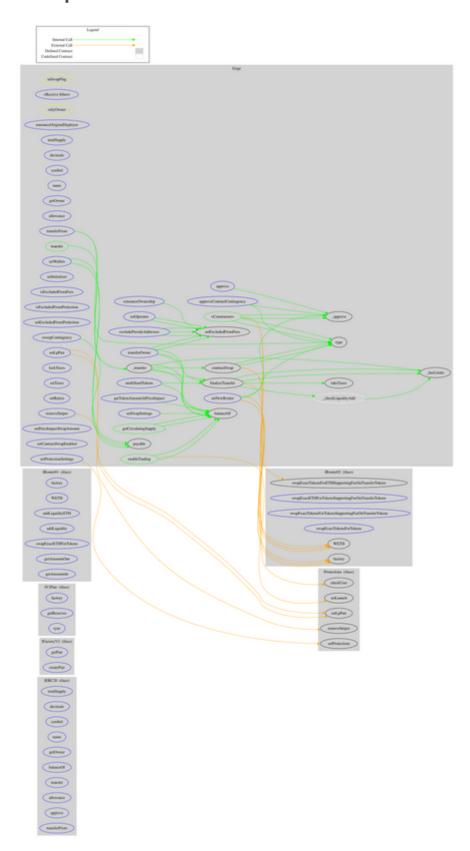


Inheritance Graph





Flow Graph





Summary

Goge is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 3% fees.

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About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

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