

Audit Report

RaceGenesis

November 2022

Type BEP-20

Network BNB Chain

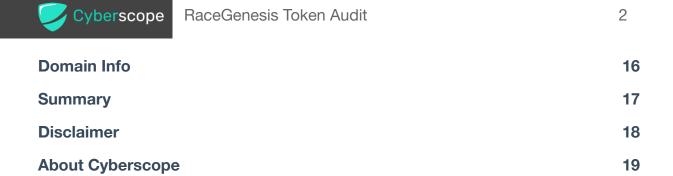
Address 0x601A9575F7931daa2e1EB8f55bD73F964E42e378

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Contract Review

Contract Name	RaceGenesis
Compiler Version	v0.8.9+commit.e5eed63a
Optimization	0 runs
Explorer	https://bscscan.com/token/0x601A9575F7931daa2e1EB 8f55bD73F964E42e378
Symbol	RACE
Decimals	9
Total Supply	1,000,000,000
Domain	racegenesis.com

Source Files

Filename	SHA256
contract.sol	b0a80ce309dccb9dec64ff816904528e293df9369cd3e9a c5a128329ea77fbd1

Audit Updates

Initial Audit	4th November 2022
Corrected	



Contract Analysis

CriticalMediumMinor / InformativePass

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



Contract Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	L02	State Variables could be Declared Constant	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L05	Unused State Variable	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L12	Using Variables before Declaration	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved



L02 - State Variables could be Declared Constant

Criticality	minor / informative
Location	contract.sol#L102,115
Status	Unresolved

Description

Constant state variables should be declared constant to save gas.

timeSinceLastPair taxesAreLocked

Recommendation

Add the constant attribute to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L33,112,122,282,113,109,111,110
Status	Unresolved

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.

```
WETH
_decimals
_hasLiqBeenAdded
_antiSnipe
_antiBlock
_tTotal
startingSupply
_symbol
_name
```

Recommendation

Follow the Solidity naming convention.

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



L05 - Unused State Variable

Criticality	minor / informative
Location	contract.sol#L102
Status	Unresolved

Description

There are segments that contain unused state variables.

timeSinceLastPair

Recommendation

Remove unused state variables.



L07 - Missing Events Arithmetic

Criticality	minor / informative
Location	contract.sol#L286
Status	Unresolved

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.

_maxTxSellAmount = (_tTotal * percent) / divisor

Recommendation

Emit an event for critical parameter changes.



L12 - Using Variables before Declaration

Criticality	minor / informative
Location	contract.sol#L375
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 the variable has been declared in a different scope.

check

Recommendation

The variables should be declared before any usage of them.



L14 - Uninitialized Variables in Local Scope

Criticality	minor / informative
Location	contract.sol#L374,375
Status	Unresolved

Description

The are variables that are defined in the local scope and are not initialized.

checked check

Recommendation

All the local scoped variables should be initialized.



Contract Functions

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	1	-
IFactoryV2	Interface			
-	getPair	External		-
	createPair	External	✓	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-
	sync	External	1	-
IRouter01	Interface			
inoutero i	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	✓	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-
	getAmountsIn	External		_



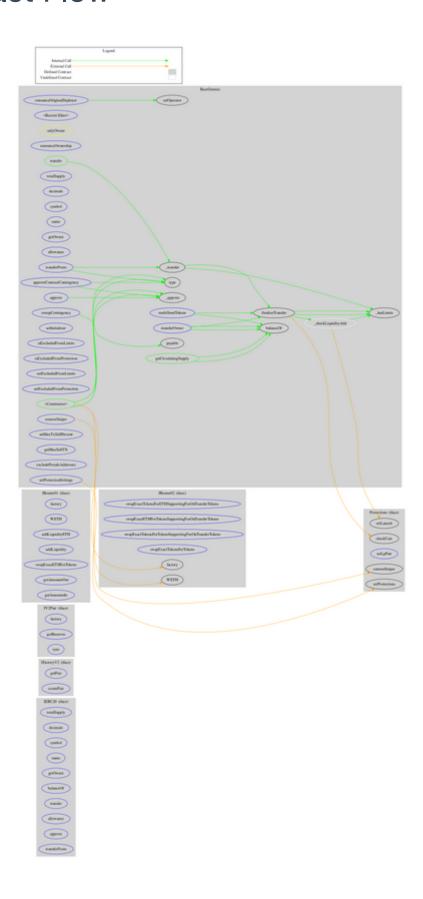
IRouter02	Interface	IRouter01		
IROULEFU2	swapExactTokensForETHSupporting FeeOnTransferTokens	External	√	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokens	External	√	-
Protections	Interface			
	checkUser	External	1	-
	setLaunch	External	/	_
	setLpPair	External	1	-
	setProtections	External	/	-
	removeSniper	External	1	-
RaceGenesis	Implementation	IERC20		
	<constructor></constructor>	Public	Payable	-
	<receive ether=""></receive>	External	Payable	-
	transferOwner	External	1	onlyOwner
	renounceOwnership	External	1	onlyOwner
	setOperator	Public	1	-
	renounceOriginalDeployer	External	1	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	allowance	External		-
	balanceOf	Public		-
	transfer	Public	1	-
	approve	External	1	-
	_approve	Internal	1	
	approveContractContingency	External	1	onlyOwner
	transferFrom	External	1	-



setInitializer	External	✓	onlyOwner
isExcludedFromLimits	External		-
isExcludedFromProtection	External		-
setExcludedFromLimits	External	✓	onlyOwner
setExcludedFromProtection	External	✓	onlyOwner
getCirculatingSupply	Public		-
removeSniper	External	✓	onlyOwner
setProtectionSettings	External	✓	onlyOwner
setMaxTxSellPercent	External	✓	onlyOwner
getMaxSellTX	External		-
excludePresaleAddresses	External	✓	onlyOwner
_hasLimits	Internal		
_transfer	Internal	✓	
_checkLiquidityAdd	Internal	✓	
sweepContingency	External	✓	onlyOwner
multiSendTokens	External	✓	onlyOwner
finalizeTransfer	Internal	1	



Contract Flow





Domain Info

Domain Name	racegenesis.com
Registry Domain ID	2515712477_DOMAIN_COM-VRSN
Creation Date	2020-04-17T15:07:05.00Z
Updated Date	2022-03-18T06:00:20.01Z
Registry Expiry Date	2023-04-17T15:07:05.00Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	http://www.namecheap.com
Registrar	NAMECHEAP INC
Registrar IANA ID	1068

The domain was created over 2 years before the creation of the audit. It will expire in 5 months.

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



Summary

RaceGenesis 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.



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Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

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