

Audit Report YanHuangDao

June 2022

Type BEP20

Network BSC

Address 0xa5ae7b441d96ec1b5b05493d483c900f9f24e03d

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Contract Review

Contract Name	YHD
Compiler Version	v0.8.12+commit.f00d7308
Optimization	200 runs
Licence	None
Explorer	https://bscscan.com/token/0xA5AE7b441D96ec1b5B0 5493D483C900F9f24e03D
Symbol	YHD
Decimals	9
Total Supply	2,000,000
Domain	yhddao.xyz

Source Files

Filename	SHA256
contract.sol	1bc61b3cd8c030e52da35fc854ed0bd84ab9f9914305e bf6463f3f18815698dc

Audit Updates

Initial Audit	6th June 2022
Corrected	



Contract Analysis

CriticalMediumMinorPass

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
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling

Contract Diagnostics

CriticalMediumMinor

Severity	Code	Description
•	L01	Public Function could be Declared External
•	L02	State Variables could be Declared Constant
•	L04	Conformance to Solidity Naming Conventions
•	L07	Missing Events Arithmetic
•	L09	Dead Code Elimination



L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L163,168,469,473,477,481,489,493,498,503,507,521,529,540,545

Description

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

```
transferFrom
transfer
getCirculatingSupply
setIsExcludedFromFee
approve
minimumTokensBeforeSwapAmount
decreaseAllowance
increaseAllowance
allowance
...
```

Recommendation

Use the external attribute for functions never called from the contract.



L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L397,399,382,400,398,380,381,387,385,389,386,384,411,418,417

Description

Constant state variables should be declared constant to save gas.

```
swapAndLiquifyEnabled
swapAndLiquifyByLimitOnly
snipeBlocks
marketingWalletAddress
lpWallet
deadAddress
buyBackWallet
antibotWallet
_symbol
...
```

Recommendation

Add the constant attribute to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L206,207,223,242,391,397,398,399,400,402

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.

```
_totalTax
_lpFee
_buybackFee
_marketingFee
_burnFee
_balances
WETH
MINIMUM_LIQUIDITY
PERMIT_TYPEHASH
...
```

Recommendation

Follow the Solidity naming convention.

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



L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L525

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.

minimumTokensBeforeSwap = newLimit

Recommendation

Emit an event for critical parameter changes.



L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L123,106,110,114,118,87,98,657

Description

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

swapEthForCustomToken
sendValue
isContract
functionCallWithValue
functionCall
_functionCallWithValue

Recommendation

Remove unused functions.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Address	Library			
	isContract	Internal		
	sendValue	Internal	√	
	functionCall	Internal	√	
	functionCall	Internal	√	
	functionCallWithValue	Internal	✓	



	functionCallWithValue	Internal	1	
	_functionCallWithValue	Private	1	
Ownable	Implementation	Context		
	<constructor></constructor>	Public	1	-
	owner	Public		-
	waiveOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
IUniswapV2Fa ctory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	1	-
	setFeeTo	External	1	-
	setFeeToSetter	External	√	-
IUniswapV2Pa	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	1	-
	transfer	External	1	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	1	-
	MINIMUM_LIQUIDITY	External		-



	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	burn	External	✓	-
	swap	External	1	-
	skim	External	✓	-
	sync	External	√	-
	initialize	External	1	-
IUniswapV2Ro uter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	1	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	1	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	1	-
	swapExactTokensForTokens	External	1	-
	swapTokensForExactTokens	External	1	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External	,	-
	getAmountOut	External		_
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
	-			



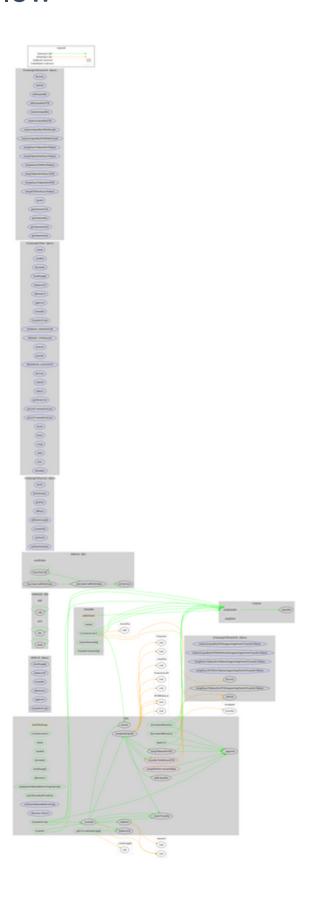
IUniswapV2Ro uter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOn TransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
YHD	Implementation	Context, IERC20, Ownable		
	<constructor></constructor>	Public	1	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	allowance	Public		-
	increaseAllowance	Public	1	-
	decreaseAllowance	Public	1	-
	minimumTokensBeforeSwapAmount	Public		-
	approve	Public	1	-
	_approve	Private	1	
	setIsExcludedFromFee	Public	1	onlyOwner
	setNumTokensBeforeSwap	External	1	onlyOwner
	getCirculatingSupply	Public		-
	transferToAddressETH	Private	1	
	<receive ether=""></receive>	External	Payable	-
	transfer	Public	1	-
	transferFrom	Public	1	-
	_transfer	Private	1	
	_basicTransfer	Internal	1	
	swapAndLiquify	Private	1	lockTheSwap



swapTokensForEth	Private	✓	
swapEthForCustomToken	Private	✓	
addLiquidity	Private	✓	
takeFee	Internal	✓	



Contract Flow





Domain Info

Domain Name	yhddao.xyz
Registry Domain ID	D301112266-CNIC
Creation Date	2022-06-03T15:01:13.0Z
Updated Date	2022-06-03T15:02:07.0Z
Registry Expiry Date	2023-06-03T23:59:59.0Z
Registrar WHOIS Server	whois.gname.com
Registrar URL	https://www.gname.com/
Registrar	Gname.com Pte. Ltd.
Registrar IANA ID	1923

The domain has been created 3 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

YanHuangDao 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. The fees are fixed to 9%.



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About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

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

https://www.cyberscope.io