



Smart Contract Audit

FOR
CyberVerse Land

DATED : 23 JAN 23'



AUDIT SUMMARY

Project name – CyberVerse Land

Date: 23 January , 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: **Passed** (Contract is developed by Pinksale safu dev)

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

a line by line code review has been performed by audit ace team.

2- Goerli:

all tests were done on Goerli network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on goerli

<https://goerli.etherscan.io/token/0x2a0ce16b02c188cf1999df7c6cf5fdd4815559c8c1>



Token Information

Token Name : Cyberverseland

Token Symbol: CYBERVERSE

Decimals: 18

Token Address:

0x0911BBfF1F00E94a1D3FcFa331E890F05337CD4B

Checksum:

f0e4c2f76c58916ec258f246851bea091d14d4247a2f
c3e18694461b1816e13b

Deployer:

0x7271ed7709d8bB6f83766b76Db276b50e057d2b9

Owner:

0x7271ed7709d8bB6f83766b76Db276b50e057d2b9



TOKEN OVERVIEW

Fees:

Buy Fees: 1%

Sell Fees: 1%

Transfer Fees: 0%

Fees Privilege: Owner

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: No



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
 - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
 - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
 - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
 - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
 - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
-

VULNERABILITY CHECKLIST

- | | |
|--|---|
|  Return values of low-level calls |  Gasless Send |
|  Private modifier |  Using block.timestamp |
|  Multiple Sends |  Re-entrancy |
|  Using Suicide |  Tautology or contradiction |
|  Gas Limitand Loops |  Timestamp Dependence |
|  Address hardcoded |  Revert/require functions |
|  Exception Disorder |  Use of tx.origin |
|  Using inline assembly |  Integer overflow/underflow |
|  Divide before multiply |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3 |
|  Compiler version not fixed |  Using throw |
-



CLASSIFICATION OF RISK

Severity

Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization / Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

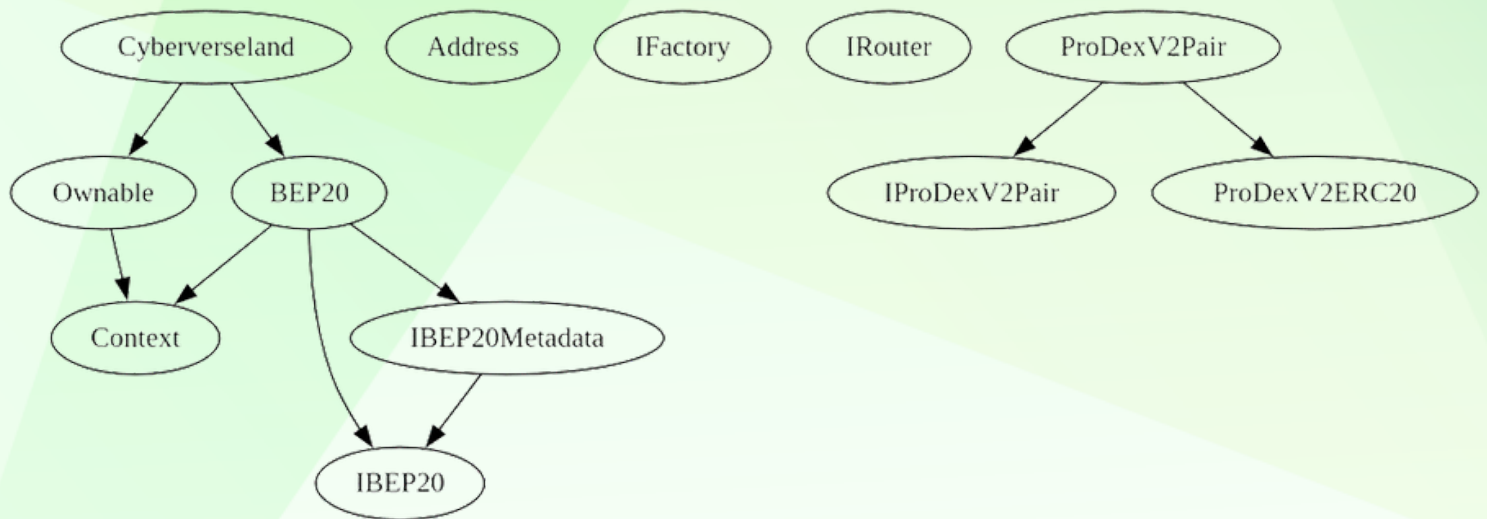
Findings

Severity

Found

◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	0

INHERITANCE TREE



POINTS TO NOTE

- **Owner is not able to change taxes (1% buy and 1% sell, 0% transfer)**
 - **Owner is not able to blacklist an arbitrary wallet**
 - **Owner is not able to set max buy/sell/transfer amounts**
 - **Owner is not able to disable trades**
 - **Owner is not able to mint new tokens**
-



CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
Context Implementation					
L	_msgSender	Internal	🔒		
L	_msgData	Internal	🔒		
IBEP20 Interface					
L	totalSupply	External	!		NO!
L	balanceOf	External	!		NO!
L	transfer	External	!	🛑	NO!
L	allowance	External	!		NO!
L	approve	External	!	🛑	NO!
L	transferFrom	External	!	🛑	NO!
IBEP20Metadata Interface IBEP20					
L	name	External	!		NO!
L	symbol	External	!		NO!
L	decimals	External	!		NO!
BEP20 Implementation Context, IBEP20, IBEP20Metadata					
L	<Constructor>	Public	!	🛑	NO!
L	name	Public	!		NO!
L	symbol	Public	!		NO!
L	decimals	Public	!		NO!
L	totalSupply	Public	!		NO!
L	balanceOf	Public	!		NO!
L	transfer	Public	!	🛑	NO!
L	allowance	Public	!		NO!
L	approve	Public	!	🛑	NO!
L	transferFrom	Public	!	🛑	NO!
L	increaseAllowance	Public	!	🛑	NO!
L	decreaseAllowance	Public	!	🛑	NO!
L	_transfer	Internal	🔒	🛑	
L	_tokengeneration	Internal	🔒	🛑	
L	_approve	Internal	🔒	🛑	
Address Library					
L	sendValue	Internal	🔒	🛑	
Ownable Implementation Context					

CONTRACT ASSESMENT

```

|  | <Constructor> | Public ! |  | NO! |
|  | owner | Public ! | | NO! |
|  | renounceOwnership | Public ! |  | onlyOwner |
|  | transferOwnership | Public ! |  | onlyOwner |
|  | _setOwner | Private  |  | |
|||||
| **IFactory** | Interface | |||
|  | createPair | External ! |  | NO! |
|||||
| **IRouter** | Interface | |||
|  | factory | External ! | | NO! |
|  | WETH | External ! | | NO! |
|  | addLiquidityETH | External ! |  | NO! |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! |  | NO! |
|||||
| **Cybersverseland** | Implementation | BEP20, Ownable |||
|  | <Constructor> | Public ! |  | BEP20 |
|  | approve | Public ! |  | NO! |
|  | transferFrom | Public ! |  | NO! |
|  | increaseAllowance | Public ! |  | NO! |
|  | decreaseAllowance | Public ! |  | NO! |
|  | transfer | Public ! |  | NO! |
|  | _transfer | Internal  |  | |
|  | Liquify | Private  |  | lockTheSwap |
|  | swapTokensForETH | Private  |  | |
|  | addLiquidity | Private  |  | |
|  | updateLiquidityProvide | External ! |  | onlyOwner |
|  | updateLiquidityTreshhold | External ! |  | onlyOwner |
|  | SetBuyTaxes | External ! |  | onlyOwner |
|  | SetSellTaxes | External ! |  | onlyOwner |
|  | EnableTrading | External ! |  | onlyOwner |
|  | updatedeadline | External ! |  | onlyOwner |
|  | updateMarketingWallet | External ! |  | onlyOwner |
|  | updateExemptFee | External ! |  | onlyOwner |
|  | bulkExemptFee | External ! |  | onlyOwner |
|  | rescueBNB | External ! |  | onlyOwner |
|  | rescueBSC20 | External ! |  | onlyOwner |
|  | <Receive Ether> | External ! |  | NO! |

```






CONTRACT ASSESMENT




|||||

| ****ProDexV2Pair**** | Implementation | IProDexV2Pair, ProDexV2ERC20 |||


| ^L | getReserves | Public  | | NO  |



| ^L | _safeTransfer | Private  |  | |



| ^L | <Constructor> | Public  |  | NO  |



| ^L | initialize | External  |  | NO  |



| ^L | _update | Private  |  | |



| ^L | _mintFee | Private  |  | |

| ^L | mint | External  |  | lock |

| ^L | burn | External  |  | lock |


| ^L | swap | External  |  | lock |

| ^L | skim | External  |  | lock |

| ^L | sync | External  |  | lock |

| Symbol | Meaning |

| :-----: | ----- |

|  | Function can modify state |

|  | Function is payable |



STATIC ANALYSIS

```
Cyberverseland.updateLiquidityThreshold(uint256) (contracts/token.sol#699-706) should emit an event for:
- tokenLiquidityThreshold = new amount * 10 ** decimals() (contracts/token.sol#705)
Cyberverseland.updateDeadline(uint256) (contracts/token.sol#737-741) should emit an event for:
- deadline = deadline (contracts/token.sol#740)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-events-arithmetic

Modifier Cyberverseland.lockTheSwap() (contracts/token.sol#473-479) does not always execute ; or revert
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-modifier

Reentrancy in Cyberverseland.Liquify(uint256,Cyberverseland.Taxes) (contracts/token.sol#620-659):
  External calls:
  - swapTokensForETH(toSwap) (contracts/token.sol#642)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
  External calls sending eth:
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
  State variables written after the call(s):
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - allowances[owner][spender] = amount (contracts/token.sol#344)
Reentrancy in Cyberverseland.transferFrom(address,address,uint256) (contracts/token.sol#510-525):
  External calls:
  - _transfer(sender,recipient,amount) (contracts/token.sol#515)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
    - address(marketingWallet).sendValue(marketingAmt) (contracts/token.sol#656)
  External calls sending eth:
  - _transfer(sender,recipient,amount) (contracts/token.sol#515)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
  State variables written after the call(s):
  - _approve(sender,msgSender(),currentAllowance - amount) (contracts/token.sol#522)
    - allowances[owner][spender] = amount (contracts/token.sol#344)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-2

Reentrancy in Cyberverseland.Liquify(uint256,Cyberverseland.Taxes) (contracts/token.sol#620-659):
  External calls:
  - swapTokensForETH(toSwap) (contracts/token.sol#642)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
  External calls sending eth:
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
  Event emitted after the call(s):
  - Approval(owner,spender,amount) (contracts/token.sol#345)
    - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)

Reentrancy in Cyberverseland._transfer(address,address,uint256) (contracts/token.sol#564-618):
  External calls:
  - Liquify(feeswap,currentTaxes) (contracts/token.sol#607)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
    - address(marketingWallet).sendValue(marketingAmt) (contracts/token.sol#656)
  External calls sending eth:
  - Liquify(feeswap,currentTaxes) (contracts/token.sol#607)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
  Event emitted after the call(s):
  - Transfer(sender,recipient,amount) (contracts/token.sol#306)
    - super._transfer(sender,address(this),feeAmount) (contracts/token.sol#615)
  - Transfer(sender,recipient,amount) (contracts/token.sol#306)
    - super._transfer(sender,recipient,amount - fee) (contracts/token.sol#610)
Reentrancy in Cyberverseland.transferFrom(address,address,uint256) (contracts/token.sol#510-525):
  External calls:
  - _transfer(sender,recipient,amount) (contracts/token.sol#515)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
    - address(marketingWallet).sendValue(marketingAmt) (contracts/token.sol#656)
  External calls sending eth:
  - _transfer(sender,recipient,amount) (contracts/token.sol#515)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
  Event emitted after the call(s):
  - Approval(owner,spender,amount) (contracts/token.sol#345)
    - _approve(sender,msgSender(),currentAllowance - amount) (contracts/token.sol#522)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

Context.msgData() (contracts/token.sol#14-17) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version<0.8.17 (contracts/token.sol#7) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.17 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in Address.sendValue(address,uint256) (contracts/token.sol#350-361):
- (success) = recipient.call{value: amount}() (contracts/token.sol#356)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
```



STATIC ANALYSIS

```
Variable BEP20_balances (contracts/token.sol#69) is not in mixedCase
Variable BEP20_allowances (contracts/token.sol#71) is not in mixedCase
Function IRouter.WETH() (contracts/token.sol#413) is not in mixedCase
Function Cybersverseland.Liquify(uint256,Cybersverseland.Taxes) (contracts/token.sol#620-659) is not in mixedCase
Parameter Cybersverseland.updateLiquidityTreshhold(uint256).new_amount (contracts/token.sol#699) is not in mixedCase
Function Cybersverseland.SetBuyTaxes(uint256,uint256) (contracts/token.sol#708-717) is not in mixedCase
Parameter Cybersverseland.SetBuyTaxes(uint256,uint256).marketing (contracts/token.sol#708) is not in mixedCase
Parameter Cybersverseland.SetBuyTaxes(uint256,uint256).liquidity (contracts/token.sol#708) is not in mixedCase
Function Cybersverseland.SetSellTaxes(uint256,uint256) (contracts/token.sol#719-728) is not in mixedCase
Parameter Cybersverseland.SetSellTaxes(uint256,uint256).marketing (contracts/token.sol#719) is not in mixedCase
Parameter Cybersverseland.SetSellTaxes(uint256,uint256).liquidity (contracts/token.sol#719) is not in mixedCase
Function Cybersverseland.EnableTrading() (contracts/token.sol#730-735) is not in mixedCase
Parameter Cybersverseland.updatedeadline(uint256).deadline (contracts/token.sol#737) is not in mixedCase
Parameter Cybersverseland.updateExemptFee(address,bool).address (contracts/token.sol#748) is not in mixedCase
Variable Cybersverseland.genesis_block (contracts/token.sol#452) is not in mixedCase
Constant Cybersverseland.deadWallet (contracts/token.sol#457-458) is not in UPPER_CASE WITH UNDERSCORES
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/token.sol#15)" inContext (contracts/token.sol#9-18)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

Cybersverseland.lastSell (contracts/token.sol#471) is never used in Cybersverseland (contracts/token.sol#440-776)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

Cybersverseland.launchtax (contracts/token.sol#454) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

Cybersverseland.pair (contracts/token.sol#444) should be immutable
Cybersverseland.router (contracts/token.sol#443) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

Result => No issues found



FUNCTIONAL TESTING

Functionality tests for ERC20 tokens includes:

- adding liquidity
- buying / selling /transferring (for non-excluded wallets)
- checking tax conversions, tax destinations
- checking auto liquidity

1- Adding Liquidity:

liquidity added on Uniswap v2:

<https://goerli.etherscan.io/tx/0xfe45db2e8c97a295d0a1d37a361b6d394e63e58b9760662cf4ff06534b77e73f>

no issue were found on adding liquidity.

2- Buying from a non-excluded wallet:

<https://goerli.etherscan.io/tx/0xc2fe1e0e2c44a20d04e3fc121eeec ee130dcef1dfc1cebac3f1af297584e6037>

1% tax on buy, transferred to contract (not reached swap threshold yet)

3- Selling from a non-excluded wallet

<https://goerli.etherscan.io/tx/0xafdace96a96b2f66e7e0f62a9365f2db74976b53cf3f6eb369d2409e023ee667>



FUNCTIONAL TESTING

1% tax on sell, transferred to contract (not reached swap threshold yet)

4- Swap & liquify

since liquidity tax is 0 and taxes can not be changed later, then auto-liquidity is disabled forever. But to check marketing tax, we transferred 10M tokens to the contract to reach swap threshold and then we performed a sell:

<https://goerli.etherscan.io/tx/0xafdace96a96b2f66e7e0f62a9365f2db74976b53cf3f6eb369d2409e023ee667>

marketing wallet received converted ETH tokens received from swapping taxes.



MANUAL TESTING

NO RISKS WERE FOUND IN THE CONTRACT





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