

AssistSmart Contract Review

Deliverable: Smart Contract Audit Report

Security Report

November 2021

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Report Summary

Title	Assist Smart Contract Audit		
Project Owner	Assist		
Туре	Public		
Reviewed by	Vatsal Raychura	Revision date	16/11/2021
Approved by	eNebula Solutions Private Limited	Approval date	16/11/2021
		Nº Pages	31

Overview

Background

Assist's team requested that eNebula Solutions perform an Extensive Smart Contract audit.

Project Dates

The following is the project schedule for this review and report:

- October 16: Smart Contract Review Completed (Completed)
- October 16: Delivery of Smart Contract Audit Report (Completed)

Review Team

The following eNebula Solutions team member participated in this review:

- Sejal Barad, Security Researcher and Engineer
- Vatsal Raychura, Security Researcher and Engineer

Coverage

Target Specification and Revision

For this audit, we performed research, investigation, and review of the smart contract of Assist.

The following documentation repositories were considered in-scope for the review:

 Assist Project: https://bscscan.com/address/0x800fbe01256d2f6f7795e90323f83baf0f5512b7#c
 ode

Introduction

Given the opportunity to review Assist Project's smart contract source code, we in the report outline our systematic approach to evaluate potential security issues in the smart contract implementation, expose possible semantic inconsistencies between smart contract code and design document, and provide additional suggestions or recommendations for improvement. Our results show that the given version of smart contracts is ready to launch after resolving the mentioned issues, there are no critical or high issues found related to business logic, security or performance.

About Assist: -

Item	Description	
Issuer	Assist	
Platform	Solidity	
Type	BEP20	
Audit Method	Whitebox	
Latest Audit Report	November 16, 2021	

The Test Method Information: -

Test method	Description
Black box testing	Conduct security tests from an attacker's perspective externally.
Grey box testing	Conduct security testing on code modules through the scripting tool, observing the internal running status, mining weaknesses.
White box testing	Based on the open-source code, non-open-source code, to detect whether there are vulnerabilities in programs such as nodes, SDK, etc.

The vulnerability severity level information:

Level	Description	
Critical	Critical severity vulnerabilities will have a significant effect on the	
	security of the DeFi project, and it is strongly recommended to fix the	
	critical vulnerabilities.	
High	High severity vulnerabilities will affect the normal operation of the DeFi	
	project. It is strongly recommended to fix high-risk vulnerabilities.	
Medium	Medium severity vulnerability will affect the operation of the DeFi	
	project. It is recommended to fix medium-risk vulnerabilities.	
Low	Low severity vulnerabilities may affect the operation of the DeFi project	
	in certain scenarios. It is suggested that the project party should	
	evaluate and consider whether these vulnerabilities need to be fixed.	
Weakness	There are safety risks theoretically, but it is extremely difficult to	
	reproduce in engineering.	

The Full List of Check Items:

Category	Check Item	
	Constructor Mismatch	
	Ownership Takeover	
	Redundant Fallback Function	
	Overflows & Underflows	
	Reentrancy	
	MONEY-Giving Bug	
Basic Coding Bugs	Blackhole	
	Unauthorized Self-Destruct	
	Revert DoS	
	Unchecked External Call	
	Gasless Send	
	Send Instead of Transfer	
	Costly Loop	
	(Unsafe) Use of Untrusted Libraries	
	(Unsafe) Use of Predictable Variables	
	Transaction Ordering Dependence	
	Deprecated Uses	
Semantic Consistency Checks	Semantic Consistency Checks	
	Business Logics Review	

	Functionality Checks	
	Authentication Management	
	Access Control & Authorization	
Advanced DeFi Scrutiny	Oracle Security	
Advanced Deri Scrutiny	Digital Asset Escrow	
	Kill-Switch Mechanism	
	Operation Trails & Event Generation	
	ERC20 Idiosyncrasies Handling	
	Frontend-Contract Integration	
	Deployment Consistency	
	Holistic Risk Management	
	Avoiding Use of Variadic Byte Array	
	Using Fixed Compiler Version	
Additional Recommendations	Making Visibility Level Explicit	
	Making Type Inference Explicit	
	Adhering To Function Declaration	
	Strictly	
	Following Other Best Practices	

Common Weakness Enumeration (CWE) Classifications Used in This Audit:

Category	Summary	
Configuration	Weaknesses in this category are typically introduced during the configuration of the software.	
Data Processing Issues	Weaknesses in this category are typically found in functionality that processes data.	
Numeric Errors	Weaknesses in this category are related to improper calculation or conversion of numbers.	
Security Features	Weaknesses in this category are concerned with topics like authentication, access control, confidentiality, cryptography, and privilege management. (Software security is not security software.)	
Time and State	Weaknesses in this category are related to the improper management of time and state in an environment that supports simultaneous or near-simultaneous computation by multiple systems, processes, or threads.	
Error Conditions, Return Values, Status Codes	Weaknesses in this category include weaknesses that occur if a function does not generate the correct return/status code, or if the application does not handle all possible return/status codes that could be generated by a function.	
Resource Management	Weaknesses in this category are related to improper management of system resources.	

Behavioral Issues	Weaknesses in this category are related to unexpected behaviors from code that an application uses.
Business Logics	Weaknesses in this category identify some of the underlying problems that commonly allow attackers to manipulate the business logic of an application. Errors in business logic can be devastating to an entire application.
Initialization and Cleanup	Weaknesses in this category occur in behaviors that are used for initialization and breakdown.
Arguments and Parameters	Weaknesses in this category are related to improper use arguments or parameters within function calls.
Expression Issues	Weaknesses in this category are related to incorrectly written expressions within code.
Coding Practices	Weaknesses in this category are related to coding practices that are deemed unsafe and increase the chances that an ex pilotable vulnerability will be present in the application. They may not directly introduce a vulnerability, but indicate the product has not been carefully developed or maintained.

Findings

Summary

Here is a summary of our findings after analyzing the Assist's Smart Contract. During the first phase of our audit, we studied the smart contract sourcecode and ran our in-house static code analyzer through the Specific tool. The purpose here is to statically identify known coding bugs, and then manually verify (reject or confirm) issues reported by tool. We further manually review business logics, examine system operations, and place DeFi-related aspects under scrutiny to uncover possible pitfalls and/or bugs.

Severity	No. of Issues
Critical	0
High	0
Medium	0
Low	3
Total	3

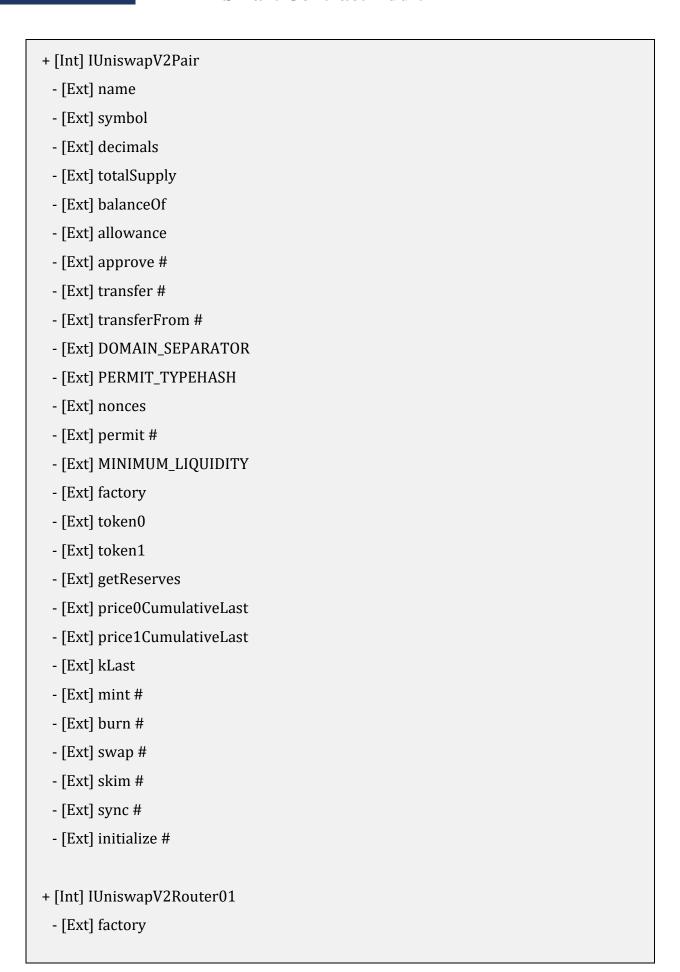
We have so far identified that there are potential issues with severity of **0 Critical**, **0 High**, **0 Medium**, **and 3 Low**. Overall, these smart contracts are well-designed and engineered, though the implementation can be improved and bug free by common recommendations given under POCs.

Functional Overview

(\$) = payable function	[Pub] public
# = non-constant function	[Ext] external
	[Prv] private
	[Int] internal

- + [Int] IERC20
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] transfer #
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transferFrom #
- + [Lib] SafeMath
 - [Int] add
 - [Int] sub
 - [Int] sub
 - [Int] mul
 - [Int] div
 - [Int] div
 - [Int] mod
 - [Int] mod
- + Context
 - [Int] _msgSender
 - [Int] _msgData

+ [Lib] Address - [Int] isContract - [Int] sendValue # - [Int] functionCall # - [Int] functionCall # - [Int] functionCallWithValue # - [Int] functionCallWithValue # - [Prv] _functionCallWithValue # + Ownable (Context) - [Pub] <Constructor> # - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership # - modifiers: onlyOwner - [Pub] geUnlockTime - [Pub] lock # - modifiers: onlyOwner - [Pub] unlock # + [Int] IUniswapV2Factory - [Ext] feeTo - [Ext] feeToSetter - [Ext] getPair - [Ext] allPairs - [Ext] allPairsLength - [Ext] createPair # - [Ext] setFeeTo # - [Ext] setFeeToSetter



- [Ext] WETH
- [Ext] addLiquidity #
- [Ext] addLiquidityETH (\$)
- [Ext] removeLiquidity #
- [Ext] removeLiquidityETH #
- [Ext] removeLiquidityWithPermit #
- [Ext] removeLiquidityETHWithPermit #
- [Ext] swapExactTokensForTokens #
- [Ext] swapTokensForExactTokens #
- [Ext] swapExactETHForTokens (\$)
- [Ext] swapTokensForExactETH #
- [Ext] swapExactTokensForETH #
- [Ext] swapETHForExactTokens (\$)
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn
- + [Int] IUniswapV2Router02 (IUniswapV2Router01)
 - [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
 - [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
 - [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
 - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
 - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- + Assist (Context, IERC20, Ownable)
 - [Pub] <Constructor> #
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals

- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] isExcludedFromReward
- [Pub] totalFees
- [Pub] deliver #
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward #
 - modifiers: onlyOwner
- [Ext] includeInReward #
 - modifiers: onlyOwner
- [Prv] _transferBothExcluded #
- [Ext] <Fallback> (\$)
- [Prv] _reflectFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] _takeLiquidity #
- [Prv] calculateTaxFee
- [Prv] calculateLiquidityFee
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Pub] isExcludedFromFee

- [Prv] _approve # - [Prv] _transfer # - [Prv] swapAndLiquify # - modifiers: lockTheSwap - [Prv] swapTokensForEth # - [Prv] addLiquidity # - [Prv] _tokenTransfer # - [Prv] _transferStandard # - [Prv] _transferToExcluded # - [Prv] _transferFromExcluded # - [Pub] excludeFromFee # - modifiers: onlyOwner - [Pub] includeInFee # - modifiers: onlyOwner - [Ext] setCharityWallet # - modifiers: onlyOwner - [Ext] setMaxTxAmount # - modifiers: onlyOwner - [Ext] setTaxFee # - modifiers: onlyOwner - [Ext] setLiquidityFee # - modifiers: onlyOwner - [Ext] setBurnFee # - modifiers: onlyOwner - [Ext] setCharityFee # - modifiers: onlyOwner - [Pub] setSwapAndLiquifyEnabled #

- modifiers: onlyOwner

Detailed Results

Issues Checking Status

1. Floating Pragma

- SWC ID:103
- Severity: Low
- Location:https://bscscan.com/address/0x800fbe01256d2f6f7795e90323f83baf0f 5512b7#code
- Relationships: CWE-664: Improper Control of a Resource Through its Lifetime
- Description: A floating pragma is set. The current pragma Solidity directive is ""^0.8.4"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

```
pragma solidity ^0.8.4;
```

• Remediations: Lock the pragma version and also consider known bugs (https://github.com/ethereum/solidity/releases) for the compiler version that is chosen.

2. State Variable Default Visibility

- SWC ID:108
- Severity: Low
- Location:https://bscscan.com/address/0x800fbe01256d2f6f7795e90323f8 3baf0f5512b7#code
- Relationships: CWE-710: Improper Adherence to Coding Standards
- Description: State variable visibility is not set. It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.
 - 728 bool inSwapAndLiquify; 729 bool public swapAndLiquifyEnabled = false;
- Remediations: Variables can be specified as being public, internal or private. Explicitly define visibility for all state variables.

3. Block values as a proxy for time

- SWC ID:116
- Severity: Low
- Location:https://bscscan.com/address/0x800fbe01256d2f6f7795e90323f8 3baf0f5512b7#code
- Relationships: CWE-829: Inclusion of Functionality from Untrusted Control Sphere
- Description: A control flow decision is made based on The block.timestamp environment variable. The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

```
//Unlocks the contract for owner when _lockTime is exceeds

function unlock() public virtual {

require(_previousOwner == msg.sender, "You don't have permission to unlock");

require(block.timestamp < _lockTime , "Contract is locked until 7 days");

emit OwnershipTransferred(_owner, _previousOwner);

_owner = _previousOwner;

}

472 }
```

• Remediations: Developers should write smart contracts with the notion that block values are not precise, and the use of them can lead to unexpected effects. Alternatively, they may make use oracles.

Automated Tools Results

Slither: -

```
Assist.addLiquidity(uint256,uint256) (Assist.sol#1055-1060) ignores return value by uniswapV2Router.addLiquidityETH(value: ethAmount)(address (this),tokenAmount,0,0,owner(),block.timestamp) (Assist.sol#1060-1067)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-return
 Assist.allowance(address,address).uwner (Assist.sol#797) shadows:
- Ownable.owner() (Assist.sol#426-422) (function)

Assist._approve(address,address,uinti56).owner (Assist.sol#976) shadows:
- Ownable.owner() (Assist.sol#426-422) (function)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
 Assist.setMaxTxAmount(uint256) (Assist.sol#1157-1159) should enit an event for:
 ._maxTxAnount = MaxTxAnount (Assist.sol#1158)
Assist.setTaxFee(uint256) (Assist.sol#1161-1163) should enit an event for:
    _taxFee = TaxFee (Assist.sol#1162)
tharityAddress = newWellet (Assist.sol#1153)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation
 Reentrancy in Assist._transfer(address.address.uint250) (Assist.sol#904-1012):
External calls:
                    swapAndLiquify(contractTokenBalance) (Assist.sol#1887)
- uniswapV2Router.addLiquidityETH(value: ethAnount)(address(this),tokenAnount,8,8,owner(),block.timestamp) (Assist.sol#1860-)

    uniswapv2Nouter.swapExactTokensForETH5upportingFeeOnTransferTokens(tokenAnount,0,path,address(this),block.timestamp) (Assistant)

                 PAG-1902)
External calls sending eth:
- swapAndLiquify(contractTokenBalance) (Assist.sol#1887)
- swapAndLiquify(contractTokenBalance) (Assist.sol#1888-1
- uniswapV2Router.addLiquidityETH(value: ethAnount)(address(this),tokenAmount,8,8,owner(),block.timestamp) (Assist.sol#1868-1
                 State variables written after the call(s):
                    _tokenTransfer(from.to.amount) (Assist.sol#1011)
-_burnFee = 2 (Assist.sol#968)
-_burnFee = 8 (Assist.sol#961)
                   __burnFee = 0 (Assist.sol##61)
_tokenTransfer(from,to,amount) (Assist.sol##811)
_fundingFee = 1 (Assist.sol#966)
_fundingFee = 0 (Assist.sol#962)
_fundingFee = 0 (Assist.sol##899)
_fundingFee = previousFundingFee (Assist.sol##189)
_tokenTransfer(from,to,amount) (Assist.sol##1891)
_liquidityFee = 2 (Assist.sol##891)
_liquidityFee = 0 (Assist.sol#960)
_liquidityFee = 0 (Assist.sol#969)
_liquidityFee = 0 (Assist.sol#969)
_liquidityFee = 0 (Assist.sol#969)
_liquidityFee = 0 (Assist.sol##969)
                     - LiquidityFee = 0 (Assist.sol#1998)
- LiquidityFee = previousLiquidityFee (Assist.sol#1107)
_tokenTransfer(from,to,anount) (Assist.sol#101)
- _tFeeTotal = _tFeeTotal.add(tFee) (Assist.sol#897)
_tokenTransfer(from,to,anount) (Assist.sol#101)
- _taxFee = 2 (Assist.sol#959)
- _taxFee = 0 (Assist.sol#959)
- _taxFee = 0 (Assist.sol#959)
                                       taxFee = _previousTaxFee (Assist.sol#1166)
```

```
uniswapV2Pair = IUniswapV2Factory( uniswapV2Router.factory()).createPair(address(this), uniswapV2Router.WETH()) (Assist,sol#757-758
         State variables written after the call(s)
- LiExcludedfronfee[owner()] = true (Assist.sol#764)
- LiExcludedfronfee[owner()] = true (Assist.sol#764)
- LiExcludedfronfee[address(this)] = true (Assist.sol#765)
- uniswapv2Router = _uniswapv2Router (Assist.sol#761)
Reentrancy in Assist.swapAndLiquify(uint256) (Assist.sol#1614-1035):
External calls:
            swapTokensForEth(haif) (Assist.sol#j026)
    uniswaptV2Router.swapExactTokensForETHSupportingFeeUnTransferTokens(tokenAmount,0.path,address(this),block.timestamp) (Assis
            967)
         External calls sending eth:
- addLlquidity(otherHalf,newBalance) (Assist.sol#1832)
- uniswapV2Router.addLiquidityETH(value: ethAnount)(address(this),tokenAnount,0,0,owner(),block.timestamp) (Assist.sol#1860-1
867)
oor)
State variables written after the call(s):
- addLiquidity(otherHalf,newBalance) (Assist.sol#1832)
- _allowances[owner][spender] = amount (Assist.sol#980)
Reentrancy in Assist.transferFrom(address,address,uint256) (Assist.sol#886-816):
External calls:
           _transfer(sender,recipient,amount) (Assist.sol#807)
- uniswapv2Router.add.iquidityETH[value: ethAnount](address(this),tokenAnount,0,0,okmer(),block.timestamp) (Assist.sol#1005-1
                     uniswapVZRouter.swapExactTokensForETHSupportingFeeDnTransferTokens(tokenAnount.D.path.address(this).block.tinestamp) (Assis
t.sol#1846-1852)
         External calls sending eth:
- _transfer(sender,recipient,amount) (Assist.sol#807)
         State variables written after the call(s):
- _approve(sender,_nugSender(),_allowances[sender]]_nugSender()].sub(amount,ERC20: transfer amount exceeds allowance)) (Assist.sol@de
- _allowances[mwner][spender] = amount (Assist.sol#980)
Heference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-Z
Reentrancy in Assist._transfer(address.address.uint256) (Assist.sol#984-1812):
External calls:
            0671
                     unismapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount.0.path.address(this),block.timestamp) (Assis
         External calls sending eth:
            Event entitled after the call(s):
          Transfer(sender,rectptent,tTransferAmount) (Assist.sal#1121)
_tokenTransfer(from,to,anount) (Assist.sal#1011)
Transfer(sender,rectptent,tTransferAmount) (Assist.sal#1131)
         __tokenTransfer(from,to,amount) (Assist.sol#1011)
- Transfer(sender,recipient,tTransferAmount) (Assist.sol#1141)

    tokenTransfer(from, to,anount) (Assist.sol#1011)
    Transfer(sender,recipient,tTransferAnount) (Assist.sol#887)

tokenTransfer(from.to.amount) (Assist.sol#1011)
Heentrancy in Assist.constructor() (Assist.sol#748-708):
External cells:
Event entitled after the call(s):
- Transfer(address(0),owner(), tTotal) (Assist.sol#767)
Reentrancy in Assist.swapAndLiquify(uint256) (Assist.sol#3814-1835):
External calls:
           t sol#1846-1852)
            addLiquidity(atherHalf,newGalance) (Assist.sol#1812)
- unlswapVZRouter.addLiquidityETM(value: ethArount)(address(this),tokenArount,0,0,mmer(),block.timestarp) (Assist.sol#1868-1
```

```
uniswapyZRouter.swapExactTokensFprETHSupportingFeeOnTransferTokens(tokenAnount.0.path.address(this).block.tinestamp) (Assis
                 External calls sending eth:
-_transfer(sender,recipient,anount) (Assist.sol#807)
                                         uniswapv2Router.addLiquidityEfM(value: ethAnount)(address(this),tokenAnount,0,0,0,00ner(),block.timestamp) (Assist.sol#1866-1
 6673
                 Event emitted after the call(s):
- Approval(owner,spender,amount) (Assist.sol#981)
- _approval(owner,spender,_msgSender(),_allowances[sender][_msgSender()].sub(amount,ERC28: transfer amount exceeds allowance)) (Assis
 t.sol#HeB)
 Heference: https://glthub.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3
Dangerous compartsons:
- require(bool,string)(block.timestamp < lockTime,Contract is locked until 7 days) (Assist.sol#469)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp

    INLINE ASK (Assist.sol#279)
    Address. functionCallWithValue(address.bytes.wint250,string) (Assist.sol#363-386) uses assembly INLINE ASK (Assist.sol#378-381)
    Reference: https://github.com/crytic/slither/wiki/betector-DocumentationWassembly-usage

Address_functionCallNithValue(address_bytes_uint256_string) (Assist, sol#305-380) is never used and should be removed Address_functionCall(address_bytes_string) (Assist.sol#335-337) is never used and should be removed Address_functionCallNithValue(address_bytes_uint256) (Assist.sol#356-352) is never used and should be removed Address_functionCallNithValue(address_bytes_uint256_string) (Assist.sol#366-363) is never used and should be removed Address_incontract(address) (Assist.sol#272-381) is never used and should be removed Address_incontract(address_uint256_string) (Assist.sol#272-381) is never used and should be removed Address_incontract_address_uint256_(Assist.sol#278-385) is never used and should be removed Context_negBlata() (Assist.sol#248-248) is never used and should be removed SafeMath.mod(uint256_uint256_string) (Assist.sol#218-228) is never used and should be removed SafeMath.mod(uint256_uint256_string) (Assist.sol#248-237) is never used and should be removed SafeMath.mod(uint256_uint256_string) (Assist.sol#248-237) is never used and should be removed
 Assist._rTotal (Assist.sol#784) is set pre-construction with a non-constant function or state variable:
 Assist, previousTaxFee (Assist solW712) is set pre-construction with a non-constant function or state variable:
__taxFee
Assist, previousliquidityFee (Assist.solW715) is set pre-construction with a non-constant function or state variable;
                        LiquidityFee
 Assist, previousburnfee (Assist.sol0718) is set pre-construction with a non-constant function or state variable:
Assist._previousfundingfee (Assist.sol#721) is set pre-construction with a non-constant function or state veriable:
 Pragma version 6.8.4 (Assist.sol#9) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.0
solc-0.8.4 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) (Assist.sol#299-385):
(success) = recipient.call(value: amount)() (Assist.sol#303)
Low level call in Address._functionCallWithValue(address,bytes,uint256,string) (Assist.sol#365-386):
- (success, returndata) = target.call(value: wetValue)(data) (Assist.sol#369)
Reference: https://github.com/crytic/slither/wikt/Detector-Documentation#low-level-calls
Function IUniswapv2Pair.DOMAIN_SEPARATOR() (Assist.sol#511) is not in mixedCase
Function IUniswapv2Pair.PERRIT_TVPEHA5H() (Assist.sol#512) is not in mixedCase
Function IUniswapv2Pair.HININUM_LIQUIDITY() (Assist.sol#520) is not in mixedCase
Function IUniswapv2Router01.WETH() (Assist.sol#551) is not in mixedCase
Function IUniswapv2Router01.WETH() (Assist.sol#551) is not in mixedCase
Parameter Assist.calculateIxFee(unit250) _amount (Assist.sol#940) is not in mixedCase
Farameter Assist.calculateLiquidityFee(uint250) _amount (Assist.sol#9157) is not in mixedCase
Parameter Assist.setMaxTxAmount(uint250).MaxTxAmount (Assist.sol#1157) is not in mixedCase
Parameter Assist.setMax7xAmount(utn256).Max7xAmount (Assist.sol#1157) is not in ntxedCase
Parameter Assist.setTaxFee(uint256).TaxFee (Assist.sol#1161) is not in ntxedCase
Parameter Assist.setMurnFee(uint256).LiquidityFee (Assist.sol#1165) is not in ntxedCase
Parameter Assist.setMurnFee(uint256).BurnFee (Assist.sol#1168) is not in ntxedCase
Parameter Assist.setCharityFee(uint256).CharityFee (Assist.sol#1172) is not in ntxedCase
Parameter Assist.setSuapamdLiquifyFinabled(bool).emabled (Assist.sol#1176) is not in ntxedCase
Variable Assist.taxFee (Assist.sol#711) is not in ntxedCase
Variable Assist.liquidityFee (Assist.sol#714) is not in ntxedCase
Variable Assist.liquidityFee (Assist.sol#717) is not in ntxedCase
variable Assist.__burnfee (Assist.sout/17) is not in nixedcase
Variable Assist._burnfee (Assist.sol#717) is not in nixedcase
Variable Assist._fundingfee (Assist.sol#720) is not in nixedcase
Variable Assist._maxTxAnount (Assist.sol#731) is not in nixedcase
Reference: https://github.com/crytic/slither/wiki/Detector-bocumentation#conformance-to-solidity-naming-conventions
 eference: https://github.com/crytic/slither/wiki/Detector-Documentatio
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artable IUniswapV2Router01-addLiquidity(address,address,uint256,uint256,uint256,address,uint256).anountADesired (Assist-sol#550) is
oo sintlar to IUniswapV2Router01-addLiquidity(address,address,uint256,uint256,uint256,address,uint256).anount8Desired (Assist-sol#55
fress,address,uint256).tTransferAmount (Assist-sol#1125)
Yartable Assist.reflectionFromToken(uint256,bool).r7ransferAmount (Assist.sol#845) is too similar to Assist._transferFromExcluded(address,add
ess,ulnt256).tTransferAmount (Assist.sol#1135)
ariable Assist.reflectionFromToken(wint256,bool).rTransferAmount (Assist.sol#845) is too similar to Assist._transferStandard(address.address
ulnt256).tTransferAmount (Assist.sol#1116)
ariable Assist._get#Values(ulnt256,ulnt256,ulnt256,ulnt256).rTransferAmount (Assist.sol#917) is too similar to Assist._transferBothExcluded(
ddress,address,ulnt256).tTransferAmount (Assist.sol#800)
artable Assist, transferfromExcluded(address,address,uint256).rTransferAmount (Assist.sol#1135) is too similar to Assist._transferToExcluded address,address,uint256).tTransferAmount (Assist.sol#1125)
 artable Assist, transferToExcluded(address,address,uint256).rTransferAmount (Assist.sol#1125) is too similar to Assist,_qetTValues(uint256).
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ariable Assist, transfermothExcluded(address,address,uint25o).rTransferAmount (Assist sol#800) is too similar to Assist, transferFromExclude
(address,address,uint25o).tTransferAmount (Assist.sol#11)5)
Press,address,uint256) tTransferAmount (Assist-sol#1116)
Ariable Assist._getRValues(uint256,uint256,uint256,uint256).rTransferAmount (Assist.sol#917) is too similar to Assist._getTValues(uint256).t
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 s,uint256).tTransferAmount (Assist.sol#1125)
arlable Assist._transferFromExcluded(address,address,uint256).rTransferAmount (Assist.sol#1135) is too similar to Assist._getTValues(uint256
.tTransferAmount (Assist.sol#969)
ariable Assist.reflectionFronToken(uint256,bool).rTransferAmount (Assist.sol#845) is too similar to Assist._transferBothExcluded(address.add
ess,uint255).TransferAmount (Assist.sol#888)
ariable Assist._transferBothExcluded(address,address,uint256).rTransferAmount (Assist.sol#800) is too similar to Assist._transferToExcluded(
ddress,address,uint256).tTransferAmount (Assist.sol#1125)
artable Assist, transferBothExcluded(address,address,uint256).rTransferAmount (Assist.sol#800) is too similar to Assist._transferBothExclude
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ariable Assist._getValues(uint256).fTransferAmount (Assist.sol#902) is too stmilar to Assist._transferStandard(address,address,uint256).tTra
sferAmount (Assist.sol#1116)
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/artable Assist, transferBothExcluded(address,address,uint256).rTransferAmount (Assist sol#BDD) is too similar to Assist,_getTValues(uint256)
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ariable Assist, transferToExcluded(address,address,uint256).rTransferAnount (Assist.sol#1125) in too similar to Assist, transferFronExcluded
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ariable Assist._transferToExcluded(address,address,uint250).rTransferAmount (Assist.sol#1125) is too similar to Assist._transferStandard(add.ess,address,uint256).tTransferAmount (Assist.sol#1116)
artable Assist, transferBothExcluded(address,address,uint256).rTransferAmount (Assist.sol#888) is ton similar to Assist, getValues(uint256).
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Ariable Assist._transfer Totx Cluded(address, uint256).rTransfer Arount (Assist.sol#1126) is too similar to Assist._transfer Standard(addre
is, address, uint256).tTransfer Arount (Assist.sol#1116)
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d(address,address,ulnt256).tTransferAnount (Assist.sol#1135)
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amaio Anouni (Asist._transferFromExcluded(address,uddress,utnt250).rTransferAnount (Assist.sol#1135) is too similar to Assist._transferBothExcluded(address,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,uddress,ud
/artable Assist, getValues(uint256).rTransferAmount (Assist.sol#982) is too similar to Assist._transferFromExcluded(address,address,uint256)
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nsferStandard(address,address,uint256).rTransferAnount (Assist.sol#1116) is too similar to Assist._getValues(uint256).tT
artable Assist.sciance (address, dooress, unt250), fransferAmount (Assist.sol#1125) is too similar to Assist._getvetues(unt250).tr
artable Assist. transferToExcluded(address, address, uint256).rTransferAmount (Assist.sol#1125) is too similar to Assist._transferBothExcluded
address, address, uint250).tTransferAmount (Assist.sol#982) is too similar to Assist._transferBothExcluded(address, address, vint256).
TransferAmount (Assist.sol#980)
artoble Assist transferToExcluded(address,address,wint250).FransferAmount (Assist sal#1125) is too similar to Assist getValues(wint250).transferAmount (Assist sol#901)
 ariable Assist<u>, g</u>etvalues(vint256).rTransferAmount (Assist.sol#902) is too similar to Assist<u>.g</u>etValues(uint256).tTransferAmount (Assist.sol
Variable Assist. transferStandard(address.address.uint256).rTransferAmount (Assist.sol#1116) is too sinilar to Assist._transferToExcluded(address.uint256).tTransferAmount (Assist.sol#1125)
leference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-are-too-similar
Assist.slitherConstructorVariables() (Assist.sol#689-1182) uses literals with too many digits:

__tTotal = 1808000000000000 * 10 ** 9 (Assist.sol#701)
Assist.slitherConstructorVariables() (Assist.sol#689-1182) uses literals with too many digits:

__markAnuunt = 180000000000000 * 10 ** 9 (Assist.sol#731)
Assist.slitherConstructorVariables() (Assist.sol#7312) uses literals with too many digits:

__numTokensSellToAddToLiquidity = 980000000 * 10 ** 9 (Assist.sol#732)
Reference: https://github.com/crytic/slither/wiki/Detector-DocumentationWion-many-digits
Assist._previousBurnfee (Assist.sol#718) is never used in Assist (Assist.sol#689-1182)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable
Assist._name (Assist.sol#787) should be constant
Assist._symbol (Assist.sol#788) should be constant
ssist _tTotal (Assist sol#703) should be constant
ssist.numTokensSellToAddToLiquidity (Assist.sol#732) should be constant
renounceOwnership() should be declared external:

    Ownable.renounceOwnership() (Assist.sol#439-442)

transferOwnership(address) should be declared external:

    Ownable.transferOwnership(address) (Assist.sol#448-452)

geUnlockTime() should be declared external:

    Ownable.geUnlockTime() (Assist.sol#454-456)

lock(uint256) should be declared external:
              Ownable.lock(uint256) (Assist.sol#459-464)
unlock() should be declared external:
              Ownable.unlock() (Assist.sol#467-472)
name() should be declared external:
             Assist.name() (Assist.sol#771-773)
symbol() should be declared external:
              Assist.symbol() (Assist.sol#775-777)
decimals() should be declared external:
              Assist.decimals() (Assist.sol#779-781)
totalSupply() should be declared external:

    Assist.totalSupply() (Assist.sol#783-785)

transfer(address,uint256) should be declared external:

    Assist.transfer(address,uint256) (Assist.sol#792-795)

allowance(address,address) should be declared external:

    Assist.allowance(address,address) (Assist.sol#797-799)

approve(address, uint256) should be declared external:

    Assist.approve(address, uint256) (Assist.sol#801-804)

transferFrom(address,address,uint256) should be declared external:

    Assist.transferFrom(address,address,uint256) (Assist.sol#806-810)

increaseAllowance(address,uint256) should be declared external:

    Assist.increaseAllowance(address,uint256) (Assist.sol#812-815)

decreaseAllowance(address,uint256) should be declared external:

    Assist.decreaseAllowance(address,uint256) (Assist.sol#817-820)

isExcludedFromReward(address) should be declared external:
             - Assist.isExcludedFromReward(address) (Assist.sol#822-824)
totalFees() should be declared external:
             Assist.totalFees() (Assist.sol#826-828)
deliver(uint256) should be declared external:
             Assist.deliver(uint256) (Assist.sol#830-837)
 reflectionFromToken(uint256,bool) should be declared external:

    Assist.reflectionFromToken(uint256,bool) (Assist.sol#839-848)
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reflectionFromToken(uint256,bool) should be declared external:

- Assist.reflectionFromToken(uint256,bool) (Assist.sol#839-848)

excludeFromReward(address) should be declared external:

- Assist.excludeFromReward(address) (Assist.sol#850-864)

isExcludeGromFee(address) should be declared external:

- Assist.isExcludeGromFee(address) (Assist.sol#972-974)

excludeFromFee(address) should be declared external:

- Assist.excludeFromFee(address) (Assist.sol#3144-1146)

includeInFee(address) should be declared external:

- Assist.includeInFee(address) (Assist.sol#3148-3158)

setSwapAndLiquifyEnabled(bool) should be declared external:

- Assist.includeInFee(address) (Assist.sol#3148-3158)

setSwapAndLiquifyEnabled(bool) should be declared external:

- Assist.setSwapAndLiquifyEnabled(bool) (Assist.sol#3178-3179)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#public-function-that-could-be-declared-external
```

MythX:

Report for Assist.sol https://dashboard.mythx.lo/#/console/analyses/9ef3dac5-4a8b-4e1d-a93a-769cfd882675

4700000			
Line	SWC Title	Severity	Short Description
9	(SWC-103) Floating Pragma	Low	A floating pragma is set.
109	(SWC-181) Integer Overflow and Underflow	Unknown	Arithmetic operation "+" discovered
141	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "-" discovered
164	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
165	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "/" discovered
208	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "/" discovered
236	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "%" discovered
462	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "+" discovered
703	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "* discovered
763	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "**" discovered
764	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "- discovered
704	(SWC-181) Integer Overflow and Underflow	Unknown	Arithmetic operation "%" discovered
728	(SWC-108) State Variable Default Visibility	Low	State variable visibility is not set.
731	(SWC-181) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
731	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "**" discovered
732	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
732	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "**" discovered
868	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "++" discovered
869	(SWC-110) Assert Violation	Unknown	Out of bounds array access
876	(SWC-110) Assert Violation	Unknown	Out of bounds array access
876	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "-" discovered
876	(SWC-101) Integer Overflow and Underflow	Unknown	Compiler-rewritable " <uint> - 1" discovered</uint>
929	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "++" discovered
938	(SWC-118) Assert Violation	Unknown	Dut of bounds array access
931	(SWC-110) Assert Violation	Unknown	Out of bounds array access
932	(SWC-110) Assert Violation	Unknown	Out of bounds array access
948	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "**" discovered
954	(SWC-161) Integer Overflow and Underflow	Unknown	Arithmetic operation "**" discovered
1040	(SWC-110) Assert Violation	Unknown	Out of bounds array access
1041	(SWC-110) Assert Violation	Unknown	Out of bounds array access

Solhint Linter:

Linter results:
Assist.sol:9:1: Error: Compiler version ^0.8:4 does not satisfy the r semver requirement
Assist.sol:411:5: Error: Explicitly mark visibility in function (Set ignoreConstructors to true if using solidity >>0.7.0)
Assist.sol:462:21: Error: Avoid to make time-based decisions in your business logic
Assist.sol:469:17: Error: Avoid to make time-based decisions in your business logic
Assist.Sol:511:5: Error: Function name must be in mimedCase
Assist.sol:512:5: Error: Function name must be in mixedCase
Assist.sol:529:5: Error: Function name must be in mixedCase
Assist.sol:551:5: Error: Function name must be in mixedCase
Assist.sol:689:1: Error: Contract has 25 states declarations but allowed no more than 15
Assist.sol:728:5: Error: Explicitly mark visibility of state
Assist.sol:748:5: Error: Explicitly mark visibility in function (Set ignoreConstructors to true if using solidlty >=0.7.0)
Assist.sol:857:72: Error: Use double quotes for string literals
Assist.sul:893:32: Error: Code contains empty blocks
Assist.sol:1051:13: Error: Avoid to make time-based decisions in your business logic
Assist.sol:1866:13: Error: Avoid to make time-based decisions in your business logic
Assist.sol:1157:29; Error: Variable name must be in mixedCase

Assist.sol:1361:24: Error: Variable name must be in mixedCase	
Assist.sol:1365:30: Error: Variable name must be in mixedCase	
Assist.soliti68:35: Error: Variable name must be in mixedCase	
Assist.sol:1172:29: Error: Variable name must be in mixedCase	

Basic Coding Bugs

1. Constructor Mismatch

 Description: Whether the contract name and its constructor are not identical to each other.

Result: PASSEDSeverity: Critical

2. Ownership Takeover

o Description: Whether the set owner function is not protected.

Result: PASSEDSeverity: Critical

3. Redundant Fallback Function

o Description: Whether the contract has a redundant fallback function.

Result: PASSEDSeverity: Critical

4. Overflows & Underflows

 Description: Whether the contract has general overflow or underflow vulnerabilities

Result: PASSEDSeverity: Critical

5. Reentrancy

 Description: Reentrancy is an issue when code can call back into your contract and change state, such as withdrawing ETHs.

Result: PASSEDSeverity: Critical

6. MONEY-Giving Bug

 Description: Whether the contract returns funds to an arbitrary address.

Result: PASSEDSeverity: High

7. Blackhole

 Description: Whether the contract locks ETH indefinitely: merely in without out.

Result: PASSEDSeverity: High

8. Unauthorized Self-Destruct

 Description: Whether the contract can be killed by any arbitrary address.

Result: PASSEDSeverity: Medium

9. Revert DoS

 Description: Whether the contract is vulnerable to DoS attack because of unexpected revert.

Result: PASSEDSeverity: Medium

10. Unchecked External Call

o Description: Whether the contract has any external call without checking the return value.

Result: PASSEDSeverity: Medium

11. Gasless Send

 $\circ \quad \text{Description: Whether the contract is vulnerable to gasless send.}$

Result: PASSEDSeverity: Medium

12. Send Instead of Transfer

 $\circ\quad \text{Description: Whether the contract uses send instead of transfer.}$

Result: PASSEDSeverity: Medium

13. Costly Loop

 Description: Whether the contract has any costly loop which may lead to Out-Of-Gas exception.

Result: PASSEDSeverity: Medium

14. (Unsafe) Use of Untrusted Libraries

o Description: Whether the contract use any suspicious libraries.

Result: PASSEDSeverity: Medium

15. (Unsafe) Use of Predictable Variables

 Description: Whether the contract contains any randomness variable, but its value can be predicated.

Result: PASSEDSeverity: Medium

16. Transaction Ordering Dependence

 Description: Whether the final state of the contract depends on the order of the transactions.

Result: PASSEDSeverity: Medium

17. Deprecated Uses

• Description: Whether the contract use the deprecated tx.origin to perform the authorization.

Result: PASSEDSeverity: Medium

Semantic Consistency Checks

 Description: Whether the semantic of the white paper is different from the implementation of the contract.

Result: PASSEDSeverity: Critical

Conclusion

In this audit, we thoroughly analyzed Assist's Smart Contract. The current code base is well organized but there are promptly some low-level Type issues found in the first phase of Smart Contract Audit.

Meanwhile, we need to emphasize that smart contracts as a whole are still in an early, but exciting stage of development. To improve this report, we greatly appreciate any constructive feedbacks or suggestions, on our methodology, audit findings, or potential gaps in scope/coverage.

About eNebula Solutions

We believe that people have a fundamental need to security and that the use of secure solutions enables every person to more freely use the Internet and every other connected technology. We aim to provide security consulting service to help others make their solutions more resistant to unauthorized access to data & inadvertent manipulation of the system. We support teams from the design phase through the production to launch and surely after.

The eNebula Solutions team has skills for reviewing code in C, C++, Python, Haskell, Rust, Node.js, Solidity, Go, and JavaScript for common security vulnerabilities & specific attack vectors. The team has reviewed implementations of cryptographic protocols and distributed system architecture, including in cryptocurrency, blockchains, payments, and smart contracts. Additionally, the team can utilize various tools to scan code & networks and build custom tools as necessary.

Although we are a small team, we surely believe that we can have a momentous impact on the world by being translucent and open about the work we do.

For more information about our security consulting, please mail us at – contact@enebula.in