



Deliverable: Smart Contract Audit Report

FortKnoxster
Smart Contract Review

Security Report

June 2021



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Report Summary

Title	FortKnoxster Smart Contract Audit		
Project Owner	FortKnoxster		
Type	Public		
Reviewed by	Vatsal Raychura	Revision date	08/06/2021
Approved by	eNebula Solutions Private Limited	Approval date	08/06/2021
		Nº Pages	24

Overview

Background

FortKnoxster requested that eNebula Solutions perform an Extensive Smart Contract audit of their Smart Contracts.

Project Dates

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

- **June 8:** Smart Contract Review Completed (*Completed*)
- **June 8:** 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 FortKnoxster.

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

- FortKnoxster Project:



FortKnoxsterBridge.zip

Introduction

Given the opportunity to review FortKnoxster Contracts related 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 FortKnoxster: -

Item	Description
Issuer	FortKnoxster
Website	https://fortknoxster.com
Type	ERC20
Platform	Solidity
Audit Method	Whitebox
Latest Audit Report	June 8, 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
Basic Coding Bugs	Constructor Mismatch
	Ownership Takeover
	Redundant Fallback Function
	Overflows & Underflows
	Reentrancy
	Money-Giving Bug
	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

Advanced DeFi Scrutiny	Access Control & Authorization
	Oracle Security
	Digital Asset Escrow
	Kill-Switch Mechanism
	Operation Trails & Event Generation
	ERC20 Idiosyncrasies Handling
	Frontend-Contract Integration
	Deployment Consistency
	Holistic Risk Management
Additional Recommendations	Avoiding Use of Variadic Byte Array
	Using Fixed Compiler Version
	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 multiplesystems, 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 exploitable 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 FortKnoxter Smart Contract Review. During the first phase of our audit, we studied the smart contract source code 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	4
Low	6
Total	10

We have so far identified that there are potential issues with severity of **0 Critical, 0 High, 4 Medium, and 6 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.

Detailed Results

Basic Code Bugs

1. DoS With Block Gas Limit

- SWC ID: 128
- Severity: Medium
- Location: multiOwnable.sol
- Relationships: CWE-400: Uncontrolled Resource Consumption
- Description: Loop over unbounded data structure. Gas consumption in function "transferOwnershipWithHowMany" in contract "Multiownable" depends on the size of data structures or values that may grow unboundedly. If the data structure grows too large, the gas required to execute the code will exceed the block gas limit, effectively causing a denial-of-service condition. Consider that an attacker might attempt to cause this condition on purpose.

```
217     function transferOwnershipWithHowMany(address[] memory newOwners, uint256 newHowManyOwnersDecide) public onlyManyOwners {
218         require(newOwners.length > 0, "transferOwnershipWithHowMany: owners array is empty");
219         require(newOwners.length <= 256, "transferOwnershipWithHowMany: owners count is greater then 256");
220         require(newHowManyOwnersDecide > 0, "transferOwnershipWithHowMany: newHowManyOwnersDecide equal to 0");
221         require(newHowManyOwnersDecide <= newOwners.length, "transferOwnershipWithHowMany: newHowManyOwnersDecide exceeds the number of owners");
222
223         // Reset owners reverse lookup table
224         for (uint j = 0; j < newOwners.length; j++) {
225             delete ownersIndices[newOwners[j]];
226         }
227         for (uint i = 0; i < newOwners.length; i++) {
228             require(newOwners[i] != address(0), "transferOwnershipWithHowMany: owners array contains zero");
229             require(ownersIndices[newOwners[i]] == 0, "transferOwnershipWithHowMany: owners array contains duplicates");
230             ownersIndices[newOwners[i]] = i + 1;
231         }
232
233         emit OwnershipTransferred(owners, howManyOwnersDecide, newOwners, newHowManyOwnersDecide);
234         owners = newOwners;
235         howManyOwnersDecide = newHowManyOwnersDecide;
236         // allOperations.length = 0;
237         allOperations.push(allOperations[0]);
238         ownersGeneration++;
239     }
```

- Remediations: Caution is advised when you expect to have large arrays that grow over time. Actions that require looping across the entire data structure should be avoided. If you absolutely must loop over an array of unknown size, then you should plan for it to potentially take multiple blocks, and therefore require multiple transactions.

2. DoS With Block Gas Limit

- SWC ID: 128
- Severity: Medium
- Location: multiOwnable.sol
- Relationships: CWE-400: Uncontrolled Resource Consumption
- Description: Implicit loop over unbounded data structure. Gas consumption in function "transferOwnershipWithHowMany" in contract "Multiownable" depends on the size of data structures that may grow unboundedly. The highlighted assignment overwrites or deletes a state variable that contains an array. When assigning to or deleting storage arrays, the Solidity compiler emits an implicit clearing loop. If the array grows too large, the gas required to execute the code will exceed the block gas limit, effectively causing a denial-of-service condition. Consider that an attacker might attempt to cause this condition on purpose.

```
217 function transferOwnershipWithHowMany(address[] memory newOwners, uint256 newHowManyOwnersDecide) public onlyManyOwners {
218     require(newOwners.length > 0, "transferOwnershipWithHowMany: owners array is empty");
219     require(newOwners.length <= 256, "transferOwnershipWithHowMany: owners count is greater than 256");
220     require(newHowManyOwnersDecide > 0, "transferOwnershipWithHowMany: newHowManyOwnersDecide equal to 0");
221     require(newHowManyOwnersDecide <= newOwners.length, "transferOwnershipWithHowMany: newHowManyOwnersDecide exceeds the number of owners");
222
223     // Reset owners reverse lookup table
224     for (uint j = 0; j < owners.length; j++) {
225         delete ownersIndices[owners[j]];
226     }
227     for (uint i = 0; i < newOwners.length; i++) {
228         require(newOwners[i] != address(0), "transferOwnershipWithHowMany: owners array contains zero");
229         require(ownersIndices[newOwners[i]] == 0, "transferOwnershipWithHowMany: owners array contains duplicates");
230         ownersIndices[newOwners[i]] = i + 1;
231     }
232
233     emit OwnershipTransferred(owners, howManyOwnersDecide, newOwners, newHowManyOwnersDecide);
234     owners = newOwners;
235     howManyOwnersDecide = newHowManyOwnersDecide;
236     // allOperations.length = 0;
237     allOperations.push(allOperations[0]);
238     ownersGeneration++;
239 }
```

- Remediations: Caution is advised when you expect to have large arrays that grow over time. Actions that require looping across the entire data structure should be avoided. If you absolutely must loop over an array of unknown size, then you should plan for it to potentially take multiple blocks, and therefore require multiple transactions.

3. DoS With Block Gas Limit

- SWC ID: 128
- Severity: Medium
- Location: bnbBridge.sol
- Relationships: CWE-400: Uncontrolled Resource Consumption
- Description: Loop over unbounded data structure. Gas consumption in function "recieveTokens" in contract "bnbBridge" depends on the size of data structures or values that may grow unboundedly. If the data structure grows too large, the gas required to execute the code will exceed the block gas limit, effectively causing a denial-of-service condition. Consider that an attacker might attempt to cause this condition on purpose.

```
44     function recieveTokens(uint256[] memory commissions) public payable {
45         if (tokensRecievedButNotSent[msg.sender] != 0) {
46             require(commissions.length == owners.length, "The number of commissions and owners does not match");
47             uint256 sum;
48             for(uint i = 0; i < commissions.length; i++) {
49                 sum += commissions[i];
50             }
51             require(msg.value >= sum, "Not enough BNB (The amount of BNB is less than the amount of commissions.)");
52             require(msg.value >= owners.length * 150000 * 10**9, "Not enough BNB (The amount of BNB is less than the internal commission.)");
53
54             for (uint i = 0; i < owners.length; i++){
55                 address payable owner = payable(owners[i]);
56                 uint256 commission = commissions[i];
57                 owner.transfer(commission);
58             }
59
60             amountToSend = tokensRecievedButNotSent[msg.sender] - tokensSent[msg.sender];
61             token.transfer(msg.sender, amountToSend);
62             tokensSent[msg.sender] += amountToSend;
63         }
64     }
```

- Remediations: Caution is advised when you expect to have large arrays that grow over time. Actions that require looping across the entire data structure should be avoided. If you absolutely must loop over an array of unknown size, then you should plan for it to potentially take multiple blocks, and therefore require multiple transactions.

4. Floating Pragma

- SWC ID: 103
- Severity: Low
- Location: bnbBridge.sol
- Relationships: CWE-664: Improper Control of a Resource Through its Lifetime
- Description: A floating pragma is set. The current pragma Solidity directive is ""^0.6.0"". 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.

```
1 // SPDX-License-Identifier: GPL-3.0
2 pragma solidity ^0.6.0;
3
4 import "./multiOwnable.sol";
5 import "./fkxToken.sol";
6
```

- Remediations: Lock the pragma version and also consider known bugs (<https://github.com/ethereum/solidity/releases>) for the compiler version that is chosen. Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package. Otherwise, the developer would need to manually update the pragma in order to compile locally.

5. Message call with hardcoded gas amount

- SWC ID: 134
- Severity: Low
- Location: bnbBridge.sol
- Relationships: CWE-655: Improper Initialization
- Description: Call with hardcoded gas amount. The highlighted function call forwards a fixed amount of gas. This is discouraged as the gas cost of EVM instructions may change in the future, which could break this contract's assumptions. If this was done to prevent reentrancy attacks, consider alternative methods such as the checks-effects-interactions pattern or reentrancy locks instead.

```
44     function recieveTokens(uint256[] memory commissions) public payable {
45         if (tokensRecievedButNotSent[msg.sender] != 0) {
46             require(commissions.length == owners.length, "The number of commissions and owners does not match");
47             uint256 sum;
48             for(uint i = 0; i < commissions.length; i++) {
49                 sum += commissions[i];
50             }
51             require(msg.value >= sum, "Not enough BNB (The amount of BNB is less than the amount of commissions.)");
52             require(msg.value >= owners.length * 150000 * 10**9, "Not enough BNB (The amount of BNB is less than the internal commission.)");
53
54             for (uint i = 0; i < owners.length; i++) {
55                 address payable owner = payable(owners[i]);
56                 uint256 commission = commissions[i];
57                 owner.transfer(commission);
58             }
59
60             amountToSend = tokensRecievedButNotSent[msg.sender] - tokensSent[msg.sender];
61             token.transfer(msg.sender, amountToSend);
62             tokensSent[msg.sender] += amountToSend;
63         }
64     }
```

- Remediations: Avoid the use of `transfer()` and `send()` and do not otherwise specify a fixed amount of gas when performing calls. Use `.call.value(...)("")` instead. Use the checks-effects-interactions pattern and/or reentrancy locks to prevent reentrancy attacks.

6. Message call with hardcoded gas amount

- SWC ID: 134
- Severity: Low
- Location: bnbBridge.sol
- Relationships: CWE-655: Improper Initialization
- Description: Call with hardcoded gas amount. The highlighted function call forwards a fixed amount of gas. This is discouraged as the gas cost of EVM instructions may change in the future, which could break this contract's assumptions. If this was done to prevent reentrancy attacks, consider alternative methods such as the checks-effects-interactions pattern or reentrancy locks instead.

```
74     function withdrawEther(uint256 amount, address payable reciever) public onlyAllOwners {  
75         require(amount > 0, "Amount of tokens should be more then 0");  
76         require(reciever != address(0), "Zero account");  
77         require(address(this).balance >= amount, "Not enough balance");  
78  
79         reciever.transfer(amount);  
80     }
```

- Remediations: Avoid the use of `transfer()` and `send()` and do not otherwise specify a fixed amount of gas when performing calls. Use `.call.value(...)(())` instead. Use the checks-effects-interactions pattern and/or reentrancy locks to prevent reentrancy attacks.

7. DoS With Block Gas Limit

- SWC ID: 128
- Severity: Medium
- Location: ethBridge.sol
- Relationships: CWE-400: Uncontrolled Resource Consumption
- Description: Loop over unbounded data structure. Gas consumption in function "recieveTokens" in contract "ethBridge" depends on the size of data structures or values that may grow unboundedly. If the data structure grows too large, the gas required to execute the code will exceed the block gas limit, effectively causing a denial-of-service condition. Consider that an attacker might attempt to cause this condition on purpose.

```
44     function recieveTokens(uint256[] memory commissions) public payable {
45         if (tokensRecievedButNotSent[msg.sender] != 0) {
46             require(commissions.length == owners.length, "The number of commissions and owners does not match");
47             uint256 sum;
48             for(uint i = 0; i < commissions.length; i++) {
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50             }
51             require(msg.value >= sum, "Not enough BNB (The amount of BNB is less than the amount of commissions.)");
52             require(msg.value >= owners.length * 150000 * 10**9, "Not enough BNB (The amount of BNB is less than the internal commission.)");
53
54             for (uint i = 0; i < owners.length; i++){
55                 address payable owner = payable(owners[i]);
56                 uint256 commission = commissions[i];
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58             }
59
60             amountToSend = tokensRecievedButNotSent[msg.sender] - tokensSent[msg.sender];
61             token.transfer(msg.sender, amountToSend);
62             tokensSent[msg.sender] += amountToSend;
63         }
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```

- Remediations: Caution is advised when you expect to have large arrays that grow over time. Actions that require looping across the entire data structure should be avoided. If you absolutely must loop over an array of unknown size, then you should plan for it to potentially take multiple blocks, and therefore require multiple transactions.

8. Floating Pragma

- SWC ID: 103
- Severity: Low
- Location: ethBridge.sol
- Relationships: CWE-664: Improper Control of a Resource Through its Lifetime
- Description: A floating pragma is set. The current pragma Solidity directive is ""^0.6.0"". 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.

```
1 // SPDX-License-Identifier: GPL-3.0
2 pragma solidity ^0.6.0;
3
4 import "./multiOwnable.sol";
5 import "./fkxToken.sol";
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```

- Remediations: Lock the pragma version and also consider known bugs (<https://github.com/ethereum/solidity/releases>) for the compiler version that is chosen. Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package. Otherwise, the developer would need to manually update the pragma in order to compile locally.

9. Message call with hardcoded gas amount

- SWC ID: 134
- Severity: Low
- Location: ethBridge.sol
- Relationships: CWE-655: Improper Initialization
- Description: Call with hardcoded gas amount. The highlighted function call forwards a fixed amount of gas. This is discouraged as the gas cost of EVM instructions may change in the future, which could break this contract's assumptions. If this was done to prevent reentrancy attacks, consider alternative methods such as the checks-effects-interactions pattern or reentrancy locks instead.

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52             require(msg.value >= owners.length * 150000 * 10**9, "Not enough BNB (The amount of BNB is less than the internal commission.)");
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54             for (uint i = 0; i < owners.length; i++) {
55                 address payable owner = payable(owners[i]);
56                 uint256 commission = commissions[i];
57                 owner.transfer(commission);
58             }
59
60             amountToSend = tokensRecievedButNotSent[msg.sender] - tokensSent[msg.sender];
61             token.transfer(msg.sender, amountToSend);
62             tokensSent[msg.sender] += amountToSend;
63         }
64     }
```

- Remediations: Avoid the use of `transfer()` and `send()` and do not otherwise specify a fixed amount of gas when performing calls. Use `.call.value(...)("")` instead. Use the checks-effects-interactions pattern and/or reentrancy locks to prevent reentrancy attacks.

10. Message call with hardcoded gas amount

- SWC ID: 134
- Severity: Low
- Location: ethBridge.sol
- Relationships: CWE-655: Improper Initialization
- Description: Call with hardcoded gas amount. The highlighted function call forwards a fixed amount of gas. This is discouraged as the gas cost of EVM instructions may change in the future, which could break this contract's assumptions. If this was done to prevent reentrancy attacks, consider alternative methods such as the checks-effects-interactions pattern or reentrancy locks instead.

```
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75         require(amount > 0, "Amount of tokens should be more then 0");  
76         require(reciever != address(0), "Zero account");  
77         require(address(this).balance >= amount, "Not enough balance");  
78  
79         reciever.transfer(amount);  
80     }
```

- Remediations: Avoid the use of `transfer()` and `send()` and do not otherwise specify a fixed amount of gas when performing calls. Use `.call.value(...)(())` instead. Use the checks-effects-interactions pattern and/or reentrancy locks to prevent reentrancy attacks.

Basic Coding Bugs

1. Constructor Mismatch

- Description: Whether the contract name and its constructor are not identical to each other.
- Result: Not found
- Severity: Critical

2. Ownership Takeover

- Description: Whether the set owner function is not protected.
- Result: Not found
- Severity: Critical

3. Redundant Fallback Function

- Description: Whether the contract has a redundant fallback function.
- Result: Not found
- Severity: Critical

4. Overflows & Underflows

- Description: Whether the contract has general overflow or underflow vulnerabilities
- Result: Not found
- Severity: Critical

5. Reentrancy

- Description: Reentrancy is an issue when code can call back into your contract and change state, such as withdrawing ETHs.
- Result: Not found
- Severity: Critical

6. Money-Giving Bug

- Description: Whether the contract returns funds to an arbitrary address.
- Result: Not found
- Severity: High

7. Blackhole

- Description: Whether the contract locks ETH indefinitely: merely in without out.
- Result: Not found
- Severity: High

8. Unauthorized Self-Destruct

- Description: Whether the contract can be killed by any arbitrary address.
- Result: Not found
- Severity: Medium

9. Revert DoS

- Description: Whether the contract is vulnerable to DoS attack because of unexpected revert.
- Result: Not found
- Severity: Medium

10.Unchecked External Call

- Description: Whether the contract has any external call without checking the return value.
- Result: Not found
- Severity: Medium

11.Gasless Send

- Description: Whether the contract is vulnerable to gasless send.
- Result: Not found
- Severity: Medium

12.Send Instead of Transfer

- Description: Whether the contract uses send instead of transfer.
- Result: Not found
- Severity: Medium

13. Costly Loop

- Description: Whether the contract has any costly loop which may lead to Out-Of-Gas exception.
- Result: Not found
- Severity: Medium

14. (Unsafe) Use of Untrusted Libraries

- Description: Whether the contract use any suspicious libraries.
- Result: Not found
- Severity: Medium

15. (Unsafe) Use of Predictable Variables

- Description: Whether the contract contains any randomness variable, but its value can be predicated.
- Result: Not found
- Severity: Medium

16. Transaction Ordering Dependence

- Description: Whether the final state of the contract depends on the order of the transactions.
- Result: Not found
- Severity: Medium

17. Deprecated Uses

- Description: Whether the contract use the deprecated tx.origin to perform the authorization.
- Result: Not found
- Severity: Medium

Semantic Consistency Checks

- Description: Whether the semantic of the white paper is different from the implementation of the contract.
- Result: Not found
- Severity: Critical

Conclusion

In this audit, we thoroughly analyzed FortKnoxster's Smart Contracts. The current code base is well organized but there are promptly some Medium and low-level issues found in this 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