NCL Fall 2024 Individual Game Scouting Report

Dear Cedar Longballa,

Thank you for participating in the National Cyber League (NCL) Fall 2024 Season! Our goal is to prepare the next generation of cybersecurity professionals, and your participation is helping achieve that goal.

The NCL was founded in May 2011 to provide an ongoing virtual training ground for collegiate students to develop, practice, and validate their cybersecurity skills in preparation for further learning, industry certifications, and career readiness. The NCL scenario-based challenges were designed around performance-based exam objectives of CompTIA certifications and are aligned to the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework published by the National Institute of Standards and Technology (NIST).

As you look to a future career in cybersecurity, we hope you find this report to be valuable in both validating skills and identifying areas for improvement across the nine NCL skills categories. You can use this NCL Scouting Report to:

- Validate your skills to employers in any job application or professional portfolio;
- Show case your achievements and strengths by including the Score Card view of your performance as part of your résumé or simply sharing the validation link so that others may view the detailed version of this report.

The NCL Fall 2024 Season had 9,260 students/players and 573 faculty/coaches from more than 540 two- and four-year schools & 230 high schools across all 50 U.S. states registered to play. The Individual Game Capture the Flag (CTF) event took place from October 25 through October 27. The Team Game CTF event took place from November 8 through November 10. The games were conducted in real-time for students across the country.

NCL is powered by Cyber Skyline's cloud-based skills evaluation platform. Cyber Skyline hosted the scenario-driven cybersecurity challenges for players to compete and track their progress in real-time.



To validate this report, please access: cyberskyline.com/report/GLLF4M98DHCX

Congratulations for your participation in the NCL Fall 2024 Individual Game! We hope you will continue to develop your knowledge and skills and make meaningful contributions as part of the Information Security workforce!

Dr. David Zeichick NCL Commissioner



NATIONAL CYBER LEAGUE SCORE CARD

NCL FALL 2024 INDIVIDUAL GAME

NATIONAL RANK
3252 ND PLACE
OUT OF 8483
PERCENTILE
62ND

PASSWORD CRACKING 84TH PERCENTILE

YOUR TOP CATEGORIES

OPEN SOURCE INTELLIGENCE 84TH PERCENTILE



Average: 67.8%

cyberskyline.com/report ID: GLLF4M98DHCX



NCL Fall 2024 Individual Game

The NCL Individual Game is designed for student players nationwide to compete in realtime in the categories listed below. The Individual Game evaluates the technical cybersecurity skills of the individual, without the assistance of others.

252 ND PLACE OUT OF 8483

security measures in online services.





62nd National

Average: 1008.9 Points

Average: 67.8%

Average: 41.1%

Cryptography	OUT OF	0.0% ACCURACY	COMPLETION:	0.0%
Identify techniques used to encrypt or obfuscate mess extract the plaintext.	ages and leverage tools to	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Enumeration & Exploitation	O POINTS OUT OF 330	0.0% ACCURACY	COMPLETION:	0.0%
Identify actionable exploits and vulnerabilities and use security measures in code and compiled binaries.	them to bypass the			
Forensics	O POINTS OUT OF 315	0.0% ACCURACY	COMPLETION:	0.0%
Utilize the proper tools and techniques to analyze, procinvestigate digital evidence in a computer-related incident				
Log Analysis	O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Utilize the proper tools and techniques to establish a bar operation and identify malicious activities using log file		7.00017.101		
Network Traffic Analysis	OUT OF 320	0.0% ACCURACY	COMPLETION:	0.0%
Identify malicious and benign network traffic to demon potential security breaches.	strate an understanding of	7,00010101		
Open Source Intelligence	240 POINTS OUT OF 355	89.5% ACCURACY	COMPLETION:	73.9%
Utilize publicly available information such as search en social media, and more to gain in-depth knowledge on				
Password Cracking	125 POINTS OUT OF 340	100.0% ACCURACY	COMPLETION:	39.3%
Identify types of password hashes and apply various to determine plaintext passwords.	echniques to efficiently			
Scanning & Reconnaissance	O POINTS OUT OF 300	0.0% ACCURACY	COMPLETION:	0.0%
Identify and use the proper tools to gain intelligence ab services and potential vulnerabilities.	out a target including its			
Web Application Exploitation	O POINTS OUT OF 310	0.0% ACCURACY	COMPLETION:	0.0%
Identify actionable exploits and vulnerabilities and use	them to bypass the			

Note: Survey module (100 points) was excluded from this report.





Cryptography Module

Identify techniques used to encrypt or obfuscate messages and leverage tools to extract the plaintext.



POINTS OUT OF 330 PERFORMANCE SCORE 0.0% ACCURACY 0.0% COMPLETION

Average: 209.0 Points

Average: 72.6%

Average: 64.6%

Bases (Easy)	O POINTS OUT OF 30	0.0% ACCURACY	COMPLETION:	0.0%	
Analyze and obtain the plaintext from messages encode bases.	ed with common number	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Shift (Easy)	O POINTS OUT OF	0.0% ACCURACY	COMPLETION:	0.0%	
Analyze and obtain the plaintext for a message encrypted with a shift cipher.					
Number Codes (Easy)	OUT OF	0.0% accuracy	COMPLETION:	0.0%	
Analyze and obtain the plaintext for a message encoded using ASCII codes.					
NATO (Easy)	O POINTS OUT OF 40	0.0% accuracy	COMPLETION:	0.0%	
Analyze and obtain the plaintext for a message encoded alphabet.	d using the NATO				
Message Signature (Medium)	O POINTS OUT OF	0.0% accuracy	COMPLETION:	0.0%	
Identify tampered emails by using PGP signatures.					
Beep Beep (Medium)	OUT OF	0.0% accuracy	COMPLETION:	0.0%	
Decoded a message that is spelled out using dial tone sounds.					
Tampered (Hard)	OUT OF	0.0% accuracy	COMPLETION:	0.0%	
Use CRC checksums to identify a tampered message.					



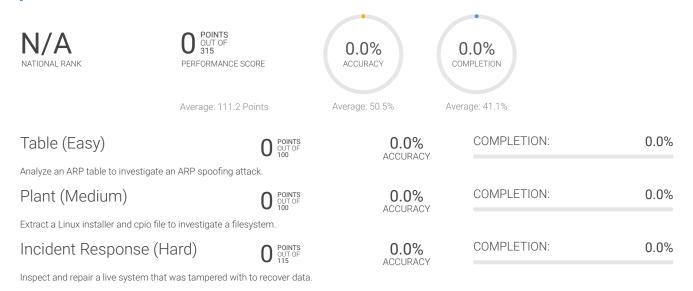
Enumeration & Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in code and compiled binaries.



Forensics Module

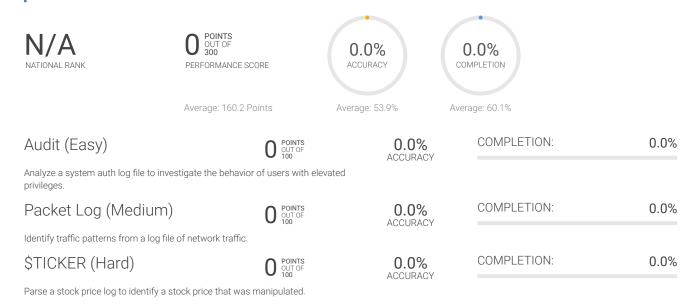
Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.





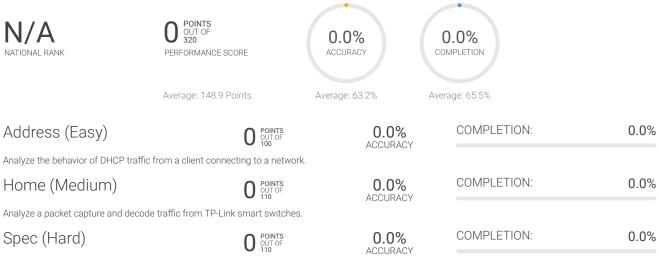
Log Analysis Module

Utilize the proper tools and techniques to establish a baseline for normal operation and identify malicious activities using log files from various services.



Network Traffic Analysis Module

Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.



Implement a custom specification to decode raw packets.



Open Source Intelligence Module

Utilize publicly available information such as search engines, public repositories, social media, and more to gain in-depth knowledge on a topic or target.

1439 TH PLACE OUT OF 8483

240 POINTS OUT OF 355





84th National Percentile

Average: 200.2 Points

Average: 73.0%

Average: 65.9%

Rules of Conduct (Easy)	25 POINTS OUT OF	100.0% ACCURACY	COMPLETION:	100.0%	
Introductory challenge on acceptable conduct during NC	L.	7100010101			
Vinyl (Easy)	40 POINTS OUT OF	100.0% ACCURACY	COMPLETION:	100.0%	
Analyze an image using metadata and file properties.					
Coordinates (Easy)	60 POINTS OUT OF	75.0% ACCURACY	COMPLETION:	100.0%	
Geolocate the physical location of a server using an IP address.					
NFT (Medium)	60 POINTS OUT OF	100.0% ACCURACY	COMPLETION:	100.0%	
Conduct blockchain analysis to attribute the ownership of a NFT.					
Git (Medium)	OUT OF 75	0.0% ACCURACY	COMPLETION:	0.0%	
Obtain private company information that was posted on social media.					
Password (Hard)	55 POINTS OUT OF 95	66.7% ACCURACY	COMPLETION:	66.7%	

Use coordinates and a SSID to search for a location and find information from public images.



Password Cracking Module

Build a custom wordlist to crack passwords by augmenting permutation rules

using known password complexity requirements.

Identify types of password hashes and apply various techniques to efficiently determine plaintext passwords.

1366 TH PLACE OUT OF 8483

125 OUT OF 340 PERFORMANCE SCORE

100.0% ACCURACY



84th National Percentile

Average: 101.6 Points

Average: 87.6%

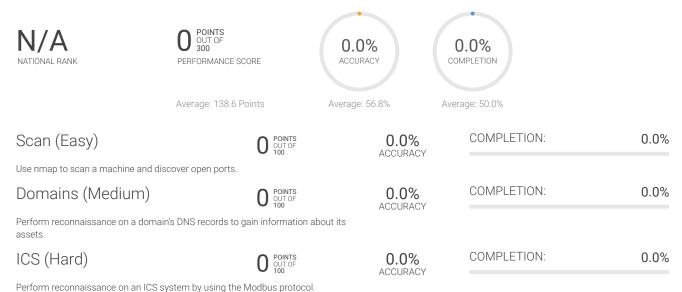
Average: 36.6%

Hashing (Easy)	15 POINTS OUT OF 15	100.0%	COMPLETION:	100.0%	
Generate password hashes for MD5, SHA1, and SHA256.		ACCONACT			
Rockyou (Easy)	30 POINTS OUT OF	100.0% ACCURACY	COMPLETION:	100.0%	
Crack MD5 password hashes for password found in the rockyou breach.					
Windows (Easy)	30 POINTS OUT OF	100.0% ACCURACY	COMPLETION:	100.0%	
Crack Windows NTLM password hashes using rainbow tables.					
Pattern (Medium)	O POINTS OUT OF 45	0.0% ACCURACY	COMPLETION:	0.0%	
Build a wordlist or pattern rule to crack password hashes of a known pattern.					
ZIP (Medium)	50 POINTS OUT OF	100.0%	COMPLETION:	100.0%	
Crack the insecure password for a protected zip file.					
Wordlist (Hard)	O POINTS OUT OF 65	0.0% ACCURACY	COMPLETION:	0.0%	
Build a wordlist to crack passwords not found in common wordlists.					
Complexity (Hard)	O POINTS OUT OF 105	0.0% accuracy	COMPLETION:	0.0%	



Scanning & Reconnaissance Module

Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.



Web Application Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in online services.

