Dhanashree Salvi
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NCL Fall 2024 Team Game Scouting Report

Dear Dhanashree Salvi (Team "Team Victory (CS03551, 1)"),

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/96D5QHFVWGR3

Congratulations for your participation in the NCL Fall 2024 Team 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

POWERED BY CYBER SKYLINE

NATIONAL CYBER LEAGUE SCORE CARD

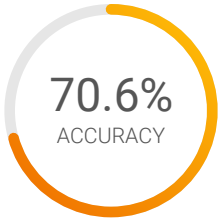
NCL FALL 2024 TEAM GAME

NATIONAL RANK
371ST PLACE OUT OF 4893

PERCENTILE
93RD

YOUR TOP CATEGORIES

SCANNING & RECONNAISSANCE	PASSWORD CRACKING	OPEN SOURCE INTELLIGENCE
97TH PERCENTILE	95TH PERCENTILE	94TH PERCENTILE



Average: 63.2%

cyberskyline.com/report
ID: 96D5QHFVWGR3

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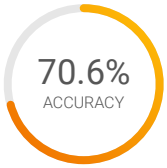
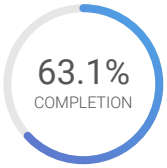
NCL Fall 2024 Team Game

The NCL Team Game is designed for student players nationwide to compete in realtime in the categories listed below. The Team Game promotes camaraderie and evaluates the collective technical cybersecurity skills of the team members.

371 ST PLACE OUT OF 4893
NATIONAL RANK

1705 POINTS OUT OF 3100
PERFORMANCE SCORE





93rd National Percentile

Average: 1153.1 Points

Average: 63.2%

Average: 44.6%

Cryptography

110 POINTS OUT OF 310

45.5% ACCURACY

COMPLETION: 45.5%

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

Enumeration & Exploitation

100 POINTS OUT OF 300

50.0% ACCURACY

COMPLETION: 22.2%

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

Forensics

120 POINTS OUT OF 400

66.7% ACCURACY

COMPLETION: 18.2%

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

Log Analysis

315 POINTS OUT OF 350

73.9% ACCURACY

COMPLETION: 89.5%

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

100 POINTS OUT OF 300

60.0% ACCURACY

COMPLETION: 66.7%

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

Open Source Intelligence

390 POINTS OUT OF 390

72.4% ACCURACY

COMPLETION: 100.0%

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

Password Cracking

150 POINTS OUT OF 340

82.4% ACCURACY

COMPLETION: 50.0%

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

Scanning & Reconnaissance

220 POINTS OUT OF 310

80.0% ACCURACY

COMPLETION: 80.0%

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

Web Application Exploitation

100 POINTS OUT OF 300

100.0% ACCURACY

COMPLETION: 33.3%

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

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

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Cryptography Module

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

453 RD PLACE OUT OF 4893
NATIONAL RANK

110 POINTS OUT OF 310
PERFORMANCE SCORE

45.5% ACCURACY

45.5% COMPLETION

91st National Percentile

Average: 115.8 Points

Average: 46.9%

Average: 47.1%

Bases (Easy)

30 POINTS OUT OF 45

100.0% ACCURACY

COMPLETION: 75.0%

Decode messages that have been encoded one or more times using different number bases.

Shady Shapes (Easy)

50 POINTS OUT OF 50

100.0% ACCURACY

COMPLETION: 100.0%

Decode a morse code message encoded using shapes for dots and dashes.

Jefferson (Easy)

30 POINTS OUT OF 60

50.0% ACCURACY

COMPLETION: 50.0%

Find and use the correct Jefferson cipher wheel to decode a message.

Secure Flag Share (Medium)

0 POINTS OUT OF 80

0.0% ACCURACY

COMPLETION: 0.0%

Perform a known plaintext attack on an XOR-encrypted message.

Scheming (Hard)

0 POINTS OUT OF 75

0.0% ACCURACY

COMPLETION: 0.0%

Perform a known plaintext attack on a homophonic cipher.

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Enumeration & Exploitation Module

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

504 TH PLACE OUT OF 4893
NATIONAL RANK

100 POINTS OUT OF 300
PERFORMANCE SCORE

50.0% ACCURACY

22.2% COMPLETION

90th National Percentile

Average: 109.7 Points

Average: 57.1%

Average: 45.4%

Break-Fast (Easy)

100 POINTS OUT OF 100

50.0% ACCURACY

COMPLETION: 100.0%

Analyze a Ruby script and bypass its insecure implementation of AES and XOR cryptography.

Trojan (Medium)

0 POINTS OUT OF 100

0.0% ACCURACY

COMPLETION: 0.0%

Decompile and explore a Powershell file that has been compiled to a Windows executable file.

Industry Guidelines (Hard)

0 POINTS OUT OF 100

0.0% ACCURACY

COMPLETION: 0.0%

Find a vulnerability in a custom architecture VM and exploit it.

Forensics Module

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

430 TH PLACE OUT OF 4893
NATIONAL RANK

120 POINTS OUT OF 400
PERFORMANCE SCORE

66.7% ACCURACY

18.2% COMPLETION

92nd National Percentile

Average: 204.0 Points

Average: 62.1%

Average: 44.5%

Registry (Easy)

20 POINTS OUT OF 100

50.0% ACCURACY

COMPLETION: 20.0%

Explore a Windows registry file to identify system information.

Jammed (Medium)

100 POINTS OUT OF 200

100.0% ACCURACY

COMPLETION: 50.0%

Fixed a corrupted header in a zip file to extract lost information.

Dump (Hard)

0 POINTS OUT OF 100

0.0% ACCURACY

COMPLETION: 0.0%

Explore a memory dump using analysis tools like Volatility to extract information from running programs.

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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.

376 TH PLACE OUT OF 4893
NATIONAL RANK

315 POINTS OUT OF 350
PERFORMANCE SCORE

73.9% ACCURACY

89.5% COMPLETION

93rd National Percentile

Average: 236.6 Points

Average: 60.5%

Average: 69.7%

Web (Easy)

110 POINTS OUT OF 110

100.0% ACCURACY

COMPLETION: 100.0%

Analyze an access log from a WordPress site to identify trends.

Activity (Medium)

100 POINTS OUT OF 120

71.4% ACCURACY

COMPLETION: 83.3%

Analyze a log of JSON data and identify trends of device activity on a network.

Monitor (Hard)

105 POINTS OUT OF 120

55.6% ACCURACY

COMPLETION: 83.3%

Analyze a Sysmon log to calculate statistics and network trends.

Network Traffic Analysis Module

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

642 ND PLACE OUT OF 4893
NATIONAL RANK

100 POINTS OUT OF 300
PERFORMANCE SCORE

60.0% ACCURACY

66.7% COMPLETION

87th National Percentile

Average: 176.2 Points

Average: 63.4%

Average: 75.5%

Stream'n (Easy)

60 POINTS OUT OF 100

66.7% ACCURACY

COMPLETION: 80.0%

Extract a transmitted file from a packet capture.

Net (Medium)

40 POINTS OUT OF 100

50.0% ACCURACY

COMPLETION: 66.7%

Analyze a packet capture to inspect the behavior of a load balancer.

Testing (Hard)

0 POINTS OUT OF 100

0.0% ACCURACY

COMPLETION: 0.0%

Extract data that was exfiltrated from a network using the reserved bits of a TCP header.

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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.

305 TH PLACE OUT OF 4893
NATIONAL RANK

390 POINTS OUT OF 390
PERFORMANCE SCORE

72.4% ACCURACY

100.0% COMPLETION

94th National Percentile

Average: 266.8 Points

Average: 75.9%

Average: 80.9%

Rules of Conduct (Easy)

25 POINTS OUT OF 25

83.3% ACCURACY

COMPLETION: 100.0%

Introductory challenge on acceptable conduct during NCL.

Van Life (Easy)

125 POINTS OUT OF 125

75.0% ACCURACY

COMPLETION: 100.0%

Apply OSINT techniques to identify and track the locations of vehicles using VINs.

Airport (Medium)

70 POINTS OUT OF 70

42.9% ACCURACY

COMPLETION: 100.0%

Determine the geolocation of an image solely by analyzing visual clues, without relying on metadata.

Nostalgia (Medium)

70 POINTS OUT OF 70

100.0% ACCURACY

COMPLETION: 100.0%

Conduct reconnaissance on a website by performing a WHOIS lookup.

Insider Threat (Hard)

100 POINTS OUT OF 100

100.0% ACCURACY

COMPLETION: 100.0%

Conduct a reverse image search to find sources or profiles that match an AI-generated person.

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Password Cracking Module

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

249 TH PLACE OUT OF 4893
NATIONAL RANK

150 POINTS OUT OF 340
PERFORMANCE SCORE

82.4% ACCURACY
Average: 82.0%

50.0% COMPLETION
Average: 34.5%

95th National Percentile
Average: 94.4 Points

Hashing (Easy)

15 POINTS OUT OF 15
100.0% ACCURACY
COMPLETION: 100.0%

Generate password hashes for MD4, Whirlpool, and SHA512.

Common Passwords (Easy)

10 POINTS OUT OF 30
100.0% ACCURACY
COMPLETION: 33.3%

Crack MD5 password hashes for common passwords .

Windows (Easy)

30 POINTS OUT OF 30
60.0% ACCURACY
COMPLETION: 100.0%

Crack Windows NTLM password hashes that may not be found in common rainbow tables.

Combination (Medium)

30 POINTS OUT OF 45
66.7% ACCURACY
COMPLETION: 66.7%

Build a wordlist or pattern config to crack password hashes of a known pattern.

PDF (Medium)

50 POINTS OUT OF 50
100.0% ACCURACY
COMPLETION: 100.0%

Crack the insecure password for a protected PDF file.

Wordlist (Hard)

0 POINTS OUT OF 65
0.0% ACCURACY
COMPLETION: 0.0%

Build a wordlist to crack passwords not found in common wordlists.

Prog Rock (Hard)

15 POINTS OUT OF 105
100.0% ACCURACY
COMPLETION: 37.5%

Create a custom wordlist to crack passwords by creating permutations based on password complexity requirements.

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Scanning & Reconnaissance Module

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

194 TH PLACE OUT OF 4893
NATIONAL RANK

220 POINTS OUT OF 310
PERFORMANCE SCORE

80.0% ACCURACY

80.0% COMPLETION

97th National Percentile

Average: 194.4 Points

Average: 53.1%

Average: 70.9%

Storytime (Easy)

100 POINTS OUT OF 100

100.0% ACCURACY

COMPLETION: 100.0%

Perform a scan on an FTP server and access shared files.

Vuln Recon (Medium)

110 POINTS OUT OF 110

100.0% ACCURACY

COMPLETION: 100.0%

Scan a system and identify vulnerable services and their associated CVEs.

Feed (Hard)

10 POINTS OUT OF 100

33.3% ACCURACY

COMPLETION: 33.3%

Perform a remote scan of an insecurely configured MQTT server and access its sensitive information.

Web Application Exploitation Module

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

334 TH PLACE OUT OF 4893
NATIONAL RANK

100 POINTS OUT OF 300
PERFORMANCE SCORE

100.0% ACCURACY

33.3% COMPLETION

94th National Percentile

Average: 100.9 Points

Average: 74.5%

Average: 33.6%

Service Up (Easy)

100 POINTS OUT OF 100

100.0% ACCURACY

COMPLETION: 100.0%

Bypass user-agent filtering in a web application to leek sensitive information.

Flag Dispenser (Medium)

0 POINTS OUT OF 100

0.0% ACCURACY

COMPLETION: 0.0%

Exploit a flaw with a custom session checksum.

Book (Hard)

0 POINTS OUT OF 100

0.0% ACCURACY

COMPLETION: 0.0%

Perform an XML injection attack and bypass input sanitization on a web application.