



NORTHEASTERN UNIVERSITY

NUCCDC

November 9, 2024

In-Person

Number of Teams	Max Team Points Received	Min Team Points Received	Mean Team Points Received	Total Points Possible
94	9153	1350	6115.31	10,000

TEAM 60 SCORECARD

This table highlights the *team's* efforts for the 2024 CyberForce Competition®.

Score Category	Team Points	Percent of Points	Team Ranking
Anomalies	1410	70.50%	4
Security Documentation	525	52.50%	80
C-Suite Panel	505	50.50%	90
Red Team	1256	50.24%	45
Blue Team	1965	98.25%	47
Green Team Surveys	1413	94.20%	29
<i>Deductions</i>	0		
Overall	7074	70.74%	29

ANOMALY SCORING

Anomalies simulate the real-world challenges that cybersecurity professionals face daily in the industry. These carefully crafted challenges not only test technical skills but also emphasize daily time management skills that professionals must demonstrate to effectively perform their roles. Most anomalies are mapped to the NIST NICE Framework and fall into one of seven work role categories: *Oversight & Governance, Design & Development, Implementation & Operation, Protection & Defense, Investigation, Cyberspace Intelligence, and Cyberspace Effects*. Some anomalies may also be categorized as *Energy* or *Other*. For those mapped to the NIST NICE Framework, their will include the mapping to associated knowledge, skill, ability, and task roles within its respective category, offering students with a comprehensive idea of the wide range of responsibilities cybersecurity professionals face while in the field.

Anomaly Score | 1410

Below highlights whether the anomaly was correct or incorrect for your team.

1	yes	27	Not Answered	53	yes
2	yes	28	yes	54	yes
3	yes	29	no	55	yes
4	yes	30	yes	56	no
5	yes	31	yes	57	yes
6	yes	32	yes	58	yes
7	yes	33	yes	59	yes
8	yes	34	no	60	no
9	yes	35	yes	61	yes
10	yes	36	yes	62	yes
11	no	37	yes	63	yes
12	yes	38	yes	64	no
13	yes	39	yes	65	no
14	yes	40	yes	66	yes
15	no	41	yes	67	no
16	no	42	yes	68	yes
17	yes	43	yes	69	Not Answered
18	yes	44	Not Answered	70	yes
19	yes	45	yes	71	yes
20	yes	46	yes	72	yes
21	yes	47	no	73	no
22	yes	48	yes	74	yes
23	no	49	yes	75	Not Answered
24	no	50	yes	76	yes
25	Not Answered	51	yes	77	yes
26	yes	52	yes		

ORANGE TEAM

SECURITY DOCUMENTATION

Blue team participants should use the Security Documentation section as an opportunity to highlight unique approaches to securing their infrastructure.

Security Documentation Score 525	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• You had the best asset inventory of the all the teams i have judged. I really liked the layout and how you listed the ports and the services together.• Great summary of the network!• Very well done on the asset inventory• Thank you for providing a comprehensive overview of the system, as well as using terminology suitable for leadership discussions.• The entry excels in presenting a comprehensive and detailed assessment of the IT infrastructure and vulnerabilities, showcasing a robust understanding of both the technical and security aspects of the system. The clear documentation of asset inventory, network diagram, identified vulnerabilities, and corresponding mitigations demonstrates a systematic approach to risk identification and remediation. Moreover, the use of advanced tools like Sysinternals Suite, Linpeas, and Process Explorer highlights a sophisticated methodology for vulnerability scanning and system hardening.	<ul style="list-style-type: none">• more detail on the vulnerabilities and the mitigation• There needs more work done on the network diagram• Expand on making sure that the hardening steps is an overall view and then proper justification is made for all.• Hardening should be the steps you take, along with justifications, no improving the security posture of the system, not a rehash of you found vulnerabilities and patched them.• I suggest incorporating the router icon and lines to enhance visual connectivity among all devices within the network.• The vulnerabilities could be prioritized based on their severity or potential impact on the organization's operations. Categorizing them as critical, high, medium, or low risks would help in resource allocation and action planning. The entry could include suggestions for long-term security strategies, such as implementing automated monitoring tools, periodic penetration testing, or adopting a zero-trust architecture. This forward-looking perspective would add strategic value. Including a brief discussion on the potential impact of unresolved vulnerabilities on operations, reputation, and compliance would underscore the importance of the mitigations.

C-SUITE PANEL

C-Suite Panel will be a pre-recorded video based on the task outlined in this document. This video should be recorded and placed somewhere accessible to judges.

C-Suite Panel Score 505	
<i>Strong Points</i>	<i>Areas of Improvement</i>

<ul style="list-style-type: none"> • The presentation itself was put together really nicely - no large blocks of text or distracting graphics. • I like that you had a timeline and cost associated with the strategies. • Good ideas for strategy and priority • A strong point of this entry was its structured approach in addressing each stage of the cybersecurity breach response, with a clear focus on risk assessment, incident containment, and recommendations for future prevention. The use of a detailed week-by-week recovery timeline demonstrates a proactive strategy and gives clear steps for immediate and long-term actions. This clarity helps to build confidence in the team's preparedness and thorough planning. 	<ul style="list-style-type: none"> • I think it's important that presentations be rehearsed before you go in front of your audience - there was really only 1 presenter for the bulk of the presentation and he was standing in front of the screen obstructing the presentation during the entire recording. I also think a second look at the remediation timeline would be appropriate - I'm not sure that 4 weeks is sufficient to conduct a full scale forensic analysis of a cyber security breach to a power company, especially if you need to prepare a report and present the results to your government clients as well as the C-Suite. • I think the presentation could have been better prepared. Also, the presenter was in front of the screen, blocking part of the slides. I would have liked more detail and not as many pauses. The dress code was not followed. • Blocking the screen with their body. Cost estimates are very under estimated • Ensuring more polished language, such as avoiding informal phrases like "various clients and whatnot," would strengthen the team's credibility. The "Annual Cost Summary" section could benefit from more detailed explanations of the specific services or software to be implemented. This would help the leadership team understand both the justification and the practicalities of the investment. Overall, focusing on language refinement, adding specific details, and strengthening the rationale for each recommendation would make this entry more comprehensive and professional.
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RED TEAM SCORING

RED TEAM FLAG INPUTS (ASSUME BREACH & WHACK A MOLE)

This year we will be using *Assume Breach* for part of your Red team score. This will be worth 1000 points. The purpose of the assume breach model is for your team to investigate and accurately report back incident details after experiencing a successful execution of an attack chain. The **Whack a Mole** portion of the Red team score will be worth 750 points. This will be done in a traditional method of "hacking" through holes created through known vulnerabilities in the system.

Assume Breach									
AB1	AB2	AB3	AB4	AB5	AB6	AB7	AB8	AB9	AB10

50	50	25	50	50	50	75	50	25	100
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Whack a Mole	
WAM1	WAM2
0	281

AUTOMATED SCRIPT CHECK – VULNERABILITY

This portion of the Red team score will be worth *750 points*. This will be done via an automated scripted check.

Automated Script Score	450
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BLUE TEAM SCORE

The Blue team scoring (service scans) is completely based on the Blue team's ability to keep services active. In an industry environment, every security professional's primary responsibility is to keep business operational and secure. Service uptime is based on the required services and their respective uptimes. Teams earn points for each availability scan that results in positive service uptime for a total of 2000 points. Throughout the day, services will be validated as operational by the scoreboard polling system. Each service is scored and weighted the same, which means availability is scored purely on the service being operational.

Service Scans	AI Algorithm Score
1565	400

GREEN TEAM SCORE

The Green team will review and complete surveys to evaluate each Blue team system's usability and user experience. Points will be awarded based on the user's ability to complete the tasks outlined in the user acceptance testing guide at the end of this document. The Green team will assess their ability to validate these tasks. The guide that will be provided to Green team users is available in the Rubrics section. It is in your best interest to run through this user testing to ensure that you can complete all the steps they are.

Green Team Score
1413