



DEPAUL UNIVERSITY

DEPAUL UNIVERSITY TEAM HEHE

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 50 SCORECARD

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

Score Category	Team Points	Percent of Points	Team Ranking
Anomalies	546	27.30%	70
Security Documentation	0	0.00%	88
C-Suite Panel	588	58.80%	87
Red Team	1563	62.52%	30
Blue Team	1565	78.25%	75
Green Team Surveys	1298	86.53%	61
<i>Deductions</i>	0		
Overall	5560	55.60%	61

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	546
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Below highlights whether the anomaly was correct or incorrect for your team.

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

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	0
<i>Strong Points</i>	<i>Areas of Improvement</i>
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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	588
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• Thorough overview of the strategy directly mapped to risks• The team effectively articulated the business concerns and associated risks. A specific point in the risks section provided a solid foundation for the subsequent security recommendations, and an introductory sentence helped to establish a clear connection between these two sections.• The risk to business reputation and the risk of litigation were mentioned. The strategy directly related to stated risks.• Strong explanation of business risks, and useful breakdown of cost, time, benefit/justification	<ul style="list-style-type: none">• No mention of system hardening or cleaning the current breach. Though explained well, need to better summarize the strategy and priorities for the C-Suite will help keep within the time limits• In the future, I recommend providing two pricing options for each recommendation to better justify costs. The absence of specific figures and the generality of the ranges did not meet the need for clear cost estimates, which is essential for business leadership's decision-making.• For business risks, it seemed as if external risks were focused on, such as other businesses losing power. This was not tied back to the business in the presentation. Focus on financial risks to the business.• The strategy stated costs as "low", "moderate", etc. Be concrete with costs, using actual numbers. Also provide ROI for those costs.• The priorities provided reasoning that at times bordered on being technical. The C-Suite is not an audience with in-depth technical understanding. Priorities should address business needs, and mention ROI or risks associated with not implementing recommendations.• The presentation was too long. Over 12 minutes, and the task was to make a 5 minute presentation. A C-Suite will not

	<p>appreciate having over twice the amount of time as scheduled taken up.</p> <ul style="list-style-type: none"> • The presentation at times felt to be a little too informal. It also seemed at times that slides were simply being read off of, and there were too many "uh"s and "um"s. • Ineffective use of time at the beginning; team could have benefited from keeping presentation to assigned ~5min timeframe
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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	0	75	25	100	75	50	100	25	50

Whack a Mole	
WAM1	WAM2
281	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
1545	20

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
1298