

INDIANA INSTITUTE OF TECHNOLOGY

CYBER WARRIORS

November 9, 2024

In-Person

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

TEAM 22 SCORECARD

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

Score Category	Team Points	Percent of Points	Team Ranking
Anomalies	432	21.60%	80
Security Documentation	727	72.70%	68
C-Suite Panel	678	67.80%	76
Red Team	1900	76.00%	11
Blue Team	1915	95.75%	50
Green Team Surveys	43	2.87%	58
Deductions	0		
Overall	5695	56.95%	58

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 | 432

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

1	yes	27	no	53	no
2	yes	28	yes	54	Not Answered
3	yes	29	Not Answered	55 y	
4	yes	30	Not Answered	56	yes
5	yes	31	Not Answered	57	yes
6	yes	32	Not Answered	58	yes
7	yes	33	Not Answered	59	yes
8	yes	34	Not Answered	60	yes
9	yes	35	Not Answered	61	yes
10	yes	36	yes	62 ye	
11	no	37	yes	63 no	
12	Not Answered	38	Not Answered	64	no
13	yes	39	yes	65	Not Answered
14	no	40	no	66	yes
15	Not Answered	41	Not Answered	67	Not Answered
16	Not Answered	42	Not Answered	68	Not Answered
17	Not Answered	43	Not Answered	69	Not Answered
18	no	44	Not Answered	70	Not Answered
19	yes	45	yes	71	Not Answered
20	Not Answered	46	Not Answered	72	Not Answered
21	yes	47	Not Answered	73	Not Answered
22	Not Answered	48	Not Answered	74	Not Answered
23	Not Answered	49	Not Answered	75	Not Answered
24	no	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 | 727

Strong Points Areas of Improvement Very complete asset list. Good start on vulnerabilities, but needs more. Also, you need justifications for Good system overview. system hardening. The System Hardening section provided a after reading your hardening steps there comprehensive overview of the measures were vulnerabilities that you addressed implemented and the tools utilized to that were not listed on the known enhance system security. vulnerability section. Their responses to "Asset Inventory" and "Network Diagram" were the best among I recommend creating a table to list the specific vulnerabilities identified for each all four sections because of their system. It may be beneficial to include an conciseness, and contained appropriate IP address column to facilitate the formatting. mapping of these vulnerabilities. By improving their response to "Known Vulnerabilities" and adding appropriate formatting to their response to "System Hardening".

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 | 678

Strong Points	Areas of Improvement
 Video editing and presentation Good instructions given to C-Suite for resource allocation and mentioning C2M2 This team covered all areas; listed clear summary of business and financial risks, provided strategy to reduce risks, recommended up to 3-4 high priority actions to improve overall security, appropriately dressed and video length and visual aids, slides and other materials have a consistent professional appearance Good job identifying and communicating risks to the C-Suite! 	 Instead of recommending as many actions as they did, further reasoning why the selected items are the most important and how they address the identified/given risks would be beneficial. Heavy reliance on expensive commercial tools This team did excellently well. The only additional recommendation would be to always explain technical terms in a business format such that a non technical person would grasp it. Your team did a good job explaining this but I would like to see a little more explanation for things like end point security, and back up recovery in the future. Overall good work and congratulations on a Job well done.

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	100	75	50	100	75	100	50	0	100

Whack	a Mole
WAM1	WAM2
375	375

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

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	Al Algorithm Score
1515	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
43