

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY-PRESCOTT BYTEWING

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 12 SCORECARD

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

Score Category	Team Points	Percent of Points	Team Ranking
Anomalies	572	28.60%	62
Security Documentation	893	89.30%	28
C-Suite Panel	828	82.80%	52
Red Team	1300	52.00%	43
Blue Team	2000	100.00%	1
Green Team Surveys	1461	97.40%	30
Deductions	0		
Overall	7054	70.54%	30

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 572

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

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

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 89

Strong Points Areas of Improvement Nicely done on the asset identification Some of the text was not readable on the section. pdf (seemed to go off the page) - a little more attention to detail would help. I loved the network diagram. It was detailed and easy to read. List The Asset Inventory could have been vulnerabilities for the given hosts. The organized better for easier reading, and system hardening procedures are the system overview could have discussed comprehensive, technically sound, and the project in more depth. well-justified. First page is cut off, always open a PDF to Good list of vulnerabilities and mitigations preview it after converting. Looks like the system overview was rushed. Misspelled The network diagram and legend were excellent. Outstanding job on identifying tool names. the vulnerabilities. Expand on the justification for the steps taken during hardening. The text was cutoff for the system overview, and the full page was unable to be seen.

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 | 828

Strong Points Areas of Improvement Overall this was a rock-solid video. The Use caution when recommending using "you can't defend what you don't know you the word "free" regarding costs. Sure, open have" comment on inventory management source software and training material is one of my favorite phrases too. might not cost a dime to acquire, but actually implementing will take a large Great job on compiling the potential amount of technical resources. impacts! and having all the team present. Your risk management strategy is great, Good that everyone dressed professionally and with a few adjustments, it could more and spoke clearly.

- Team members professionally dressed and introduced.
- Clear focus on free recommendations clearly designed to improve security posture.
- Your risk management strategy is great, and with a few adjustments, it could more effectively address the potential impacts you've identified. Building on those insights will help strengthen the approach even further. Great start!
- Other than being dressed professionally, it was not a very professional video.
 Sometimes simpler is better.
- Felt like more of a YouTube video rather than professional C-Suite presentation (Less music).

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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	50	50	50	25	50	50	50	50

Whack a Mole		
WAM1	WAM2	
375	0	

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
1600	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
1461