



CALIFORNIA STATE UNIVERSITY-SAN BERNARDINO

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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 95 SCORECARD

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

Score Category	Team Points	Percent of Points	Team Ranking
Anomalies	200	10.00%	90
Security Documentation	645	64.50%	73
C-Suite Panel	768	76.80%	67
Red Team	1156	46.24%	54
Blue Team	1704	85.20%	68
Green Team Surveys	1390	92.67%	56
<i>Deductions</i>	0		
Overall	5863	58.63%	56

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	200
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Below highlights whether the anomaly was correct or incorrect for your team.

1	yes	27	Not Answered	53	no
2	yes	28	no	54	Not Answered
3	yes	29	no	55	yes
4	yes	30	no	56	no
5	yes	31	Not Answered	57	yes
6	yes	32	Not Answered	58	yes
7	yes	33	Not Answered	59	yes
8	yes	34	no	60	yes
9	yes	35	Not Answered	61	yes
10	yes	36	Not Answered	62	yes
11	Not Answered	37	yes	63	yes
12	Not Answered	38	Not Answered	64	Not Answered
13	Not Answered	39	Not Answered	65	Not Answered
14	yes	40	Not Answered	66	no
15	no	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	Not Answered	44	Not Answered	70	Not Answered
19	Not Answered	45	Not Answered	71	Not Answered
20	Not Answered	46	Not Answered	72	Not Answered
21	Not Answered	47	Not Answered	73	Not Answered
22	yes	48	Not Answered	74	Not Answered
23	Not Answered	49	Not Answered	75	Not Answered
24	Not Answered	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 645	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• The system overview was clear and written with senior leadership in mind.• The network diagram was very clear and straightforward.• Got most of the key points of the network documented.• System overview was an excellent summary of the system and how it operates, well written for a C-Suite/Non-technical audience.	<ul style="list-style-type: none">• The vulnerability list could be expanded upon. Formatting needed some attention too, blank spaces, fonts, general consistency throughout.• There are many vulnerabilities within the system. Try to be more thorough in your internal investigation.• Ensure there is consistency throughout the document.• Known vulnerabilities missed many of the obvious vulnerabilities that were easily discoverable upon logging into the machines. Most results appeared to be solely from a vulnerability scan.

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 768	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• Everything was professional and explained.• Nice, professional slides and overall flow of presentation.• The thorough explanation and reasoning behind the proposed improvements for each phase were well articulated. The case study of the recent breach of PG&E was a nice addition to the presentation as to why it is important.• The actions in the phases are thoroughly planned.	<ul style="list-style-type: none">• Mixing up of the strategy to reduce risk and the high priority risks together in a way.• Very short section/discussion of business risks.• no comment• One has to interpret what your long-term strategy is, and what your immediate recommendations are. Try to adhere to the prompt and clearly answer the questions in the brief.

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
0	100	50	75	25	25	100	0	0	50

Whack a Mole	
WAM1	WAM2
281	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
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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
1600	104

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
1390