



UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

SIGPWNY

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 79 SCORECARD

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

Score Category	Team Points	Percent of Points	Team Ranking
Anomalies	844	42.20%	23
Security Documentation	927	92.70%	16
C-Suite Panel	765	76.50%	69
Red Team	775	31.00%	75
Blue Team	1800	90.00%	59
Green Team Surveys	1019	67.93%	52
<i>Deductions</i>	0		
Overall	6130	61.30%	52

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	844
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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	no	55	yes
4	yes	30	Not Answered	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	yes	60	yes
9	yes	35	Not Answered	61	yes
10	yes	36	Not Answered	62	yes
11	no	37	yes	63	yes
12	Not Answered	38	yes	64	yes
13	yes	39	yes	65	Not Answered
14	yes	40	yes	66	yes
15	yes	41	Not Answered	67	Not Answered
16	yes	42	Not Answered	68	Not Answered
17	yes	43	no	69	Not Answered
18	yes	44	yes	70	Not Answered
19	yes	45	yes	71	Not Answered
20	Not Answered	46	yes	72	Not Answered
21	no	47	no	73	Not Answered
22	yes	48	yes	74	Not Answered
23	Not Answered	49	yes	75	yes
24	no	50	yes	76	yes
25	Not Answered	51	yes	77	yes
26	Not Answered	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 927	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• This was a very strong and comprehensive document.• Great hardening steps to make the system overall secure.• I like how you had a separate table for critical ports and services• Logical and well formatted network diagram.• Your System Hardening summary is excellent. It is very well organized per area, easy to read, and detailed. It shows both a technical expertise in vulnerability and configuration management area, and in your ability to present technical information in clear and organized manner.	<ul style="list-style-type: none">• More professional language (e.g. "we will" instead of "we'll").• There should be justification for why each hardening step was taken, not just listing out what happened but why it happened.• More detail and understanding of the overall system was needed. when you list the ports and services in separate columns they should be on separate lines. Assume I don't know what port matches what service. That is confusing to senior leadership.• Address senior leadership (non-technical, business people) more directly - avoid jargon, and shorten long sentences. Include all devices in the asset inventory• Your Known Vulnerabilities table contains a good amount of identified vulnerabilities. However, when compared to your System Hardening summary, it looks like you did not listed all Known Vulnerabilities that you found.

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 765	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• A strong element of this entry was the talking points emphasizing considerations surrounding business risks and consequences. These are topics that directly impact companies before, during, and after real-world events. Also, the recommendations identified by the team remain equally impactful to the stakeholders• Slides are clear.	<ul style="list-style-type: none">• One element of this entry that could have been improved were the visual aspects of the submission. Consider that the slide content is already presented across the video, doing so again behind the presenter at the cost of actually seeing the team members offers low returns. Also, the video was clipped together as opposed to recorded in a single take, as would be reflective of a realistic meeting with senior management.

<ul style="list-style-type: none"> • Risks were clearly outlined, and financial risks were mentioned. • The presentation overall was very professional. • Clear strategy and recommendations to carry out. • Good understanding and presentation on the "Understanding the Risks..." slide 	<ul style="list-style-type: none"> • Video addresses recommendations and reasoning, but unclear what the strategy is. • The strategy did not directly address the risks mentioned. They were related, but it was not stated how the strategy addressed those risks. • Provide reasoning on why recommended priorities should be implemented. What is the ROI? What happens if I don't implement each priority? A general risk of failing to improve security was discussed, but nothing directly related to each priority. • There has to be continuity between the risks and long-term strategy. • You may want to consider another word besides "Failure" on the Improve Security posture. slide. • You may want to think about if the High Priority Recommendations are appropriate for the C-Suite. •
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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
0	50	100	75	0	0	0	0	0	100

Whack a Mole	
WAM1	WAM2
0	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
1400	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
1019