



WESTERN WASHINGTON UNIVERSITY

CASCADIA CYBER SENTINELS

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 14 SCORECARD

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

Score Category	Team Points	Percent of Points	Team Ranking
Anomalies	841	42.05%	25
Security Documentation	740	74.00%	67
C-Suite Panel	887	88.70%	26
Red Team	2000	80.00%	6
Blue Team	1995	99.75%	26
Green Team Surveys	843	56.20%	22
<i>Deductions</i>	0		
Overall	7306	73.06%	22

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 | 841

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

1	yes	27	no	53	yes
2	yes	28	Not Answered	54	Not Answered
3	yes	29	Not Answered	55	no
4	yes	30	Not Answered	56	yes
5	yes	31	yes	57	yes
6	yes	32	yes	58	yes
7	yes	33	yes	59	yes
8	yes	34	yes	60	no
9	yes	35	yes	61	yes
10	yes	36	yes	62	yes
11	no	37	yes	63	yes
12	yes	38	Not Answered	64	yes
13	yes	39	yes	65	no
14	no	40	yes	66	yes
15	no	41	no	67	Not Answered
16	no	42	Not Answered	68	Not Answered
17	no	43	no	69	Not Answered
18	yes	44	Not Answered	70	no
19	no	45	yes	71	Not Answered
20	no	46	yes	72	Not Answered
21	yes	47	no	73	Not Answered
22	yes	48	yes	74	Not Answered
23	yes	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 740	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• The network diagram was done professionally.• The team provided a detailed asset inventory with all relevant information, including hostnames, IP addresses, ports, and services. Their network diagram was well-structured, visually clear, and included a legend, making it easy for anyone, including senior leadership, to understand the layout and connections within the network. The team excelled in identifying vulnerabilities, providing a comprehensive list that covered a range of issues from software misconfigurations to weak security settings.• Well done diagram and asset inventory• Well done on the asset list, identifying the port number and protocol.	<ul style="list-style-type: none">• Inclusion of OS (e.g., instead of "Windows" do "Windows Server 2016", "Windows Server 2019", etc.) Remove instructions from template for more professional appearance.• The system overview could have benefited from more transparent, straightforward language catering to a non-technical senior leadership audience. Simplifying technical jargon and focusing on high-level goals, risks, and benefits would have helped. The tables could've been organized to be more readable.• System overview needs a little more detail, think of it like an executive summary. Limited response on vulnerabilities and system hardening• Be more specific in system overview.• Only 14 vulnerabilities were identified. There was only one hardening step mentioned, with little justification.

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 887	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• The information presented at the appropriate level for the intended audience. The content was actionable, succinct, and accurate.• Loved the uniqueness of the video while keeping it professional.• Initially, I was concerned that the slides would be difficult to see due to the distance. However, i appreciated how you zoomed in on each slide before bringing on the next topic.	<ul style="list-style-type: none">• This presentation could have been improved by speaking versus reading the identified content. At times, this did come across scripted. As you complete these tasks in industry, the "scripted feel" will evolve into more of an informed conversation.• In the reasoning, make sure to emphasize the business impact of performing different cyber techniques.• no comment

- The risks caused by degraded output and outages were clearly described.
- The recommendations could have required less significant funding.

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
100	100	100	75	100	75	75	100	25	50

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
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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
1595	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

