



BRIGHAM YOUNG UNIVERSITY

BYU 2

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 40 SCORECARD

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

Score Category	Team Points	Percent of Points	Team Ranking
Anomalies	612	30.60%	54
Security Documentation	513	51.30%	81
C-Suite Panel	781	78.10%	64
Red Team	1375	55.00%	40
Blue Team	1985	99.25%	36
Green Team Surveys	115	7.67%	70
Deductions	150		
Overall	5231	52.31%	70

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 | 612

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	Not Answered	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	Not Answered	60	yes
9	yes	35	Not Answered	61	yes
10	yes	36	no	62	yes
11	no	37	yes	63	yes
12	no	38	yes	64	yes
13	yes	39	no	65	Not Answered
14	yes	40	no	66	Not Answered
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	yes
19	no	45	yes	71	Not Answered
20	no	46	Not Answered	72	yes
21	yes	47	Not Answered	73	Not Answered
22	yes	48	Not Answered	74	Not Answered
23	no	49	yes	75	Not Answered
24	no	50	Not Answered	76	yes
25	no	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 513	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• Your goal at the end of the system overview was well placed. Even if senior leadership glazes over this section the last sentence likely catches there attention .• The system hardening section was understandable regardless of existing cyber knowledge.• The information was well organized, which made it easy to read. The system overview is well-defined, specifying both the system and its purpose in clear, plain language, which targets a senior leadership audience. The overview addresses the system's significance, components, and security practices thoroughly.	<ul style="list-style-type: none">• Formatting, remove the instructions and examples so this looks more like report to leadership rather than an assignment.• Documenting all assets in the inventory and including firewall and internet in network diagram. Removal of instructions provided in template.• The network diagram includes several hosts but lacks key components and needs more technical soundness in logical connections. It does not meet the requirement for completeness and appropriate symbols for a proficient or exemplary level.

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 781	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none">• There were good low level descriptions and good tie in to beginning points and financials.• Only two active members - no acknowledgement of any other team members, strategy and recommendations need more clarity and integration of reasoning,• Strong focus on the importance of communication within an organization• Tied risks to financial concerns, such as fines, loss of customers, and operational costs.	<ul style="list-style-type: none">• The camera angle was awkward and there was no acknowledgement of other team members.• Clear explanations avoided jargon.• No acknowledgement of other team members.• Visually distracting and unprofessional camera angle/background• Strategy addressed immediate risks, but the task was to provide long-term action items.• Provide more concrete estimates on cost and ROI. C-Suite will want hard number to justify implementation.• Consider showing slides during presentation, executives love PowerPoint.

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	50	75	50	25	0	50	50	50	100

Whack a Mole	
WAM1	WAM2
187	187

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
1585	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
115