



## UNIVERSITY OF ARKANSAS

### NOTORIOUS P.I.G.

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 59 SCORECARD

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

Score Category	Team Points	Percent of Points	Team Ranking
Anomalies	592	29.60%	57
Security Documentation	258	25.80%	85
C-Suite Panel	583	58.30%	88
Red Team	1188	47.52%	51
Blue Team	1795	89.75%	61
Green Team Surveys	60	4.00%	81
<i>Deductions</i>	0		
Overall	4476	44.76%	81

## 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** | 592

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

1	yes	27	Not Answered	53	Not Answered
2	yes	28	yes	54	no
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	no
7	yes	33	Not Answered	59	yes
8	yes	34	yes	60	no
9	yes	35	Not Answered	61	yes
10	yes	36	Not Answered	62	yes
11	no	37	no	63	no
12	Not Answered	38	yes	64	no
13	yes	39	yes	65	Not Answered
14	yes	40	Not Answered	66	Not Answered
15	yes	41	Not Answered	67	Not Answered
16	yes	42	Not Answered	68	Not Answered
17	yes	43	Not Answered	69	Not Answered
18	yes	44	Not Answered	70	Not Answered
19	yes	45	Not Answered	71	Not Answered
20	Not Answered	46	Not Answered	72	Not Answered
21	yes	47	Not Answered	73	Not Answered
22	yes	48	Not Answered	74	Not Answered
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	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   258	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none"><li>• Thank you for competing and this documentation is one of the hardest parts.</li><li>• Great start to understanding the network.</li><li>• Most of the assets were present</li><li>• The network diagrams incorporate the majority of the key components.</li></ul>	<ul style="list-style-type: none"><li>• There were a significant amount of data missing from the documentation.</li><li>• Review your documentation to make sure that everything is placed correctly.</li><li>• I recommend organizing each service into its own row to clearly delineate which services correspond to which ports. Additionally, I suggest extending the network output from the router to minimize confusion, as it appears that these may represent different subnets. I recommend making sure all sections have been completed before submitting documents.</li><li>• The team could significantly improve the quality of their presentation in the future by ensuring all required details are thoroughly addressed as per the questions outlined in the security document. A more comprehensive approach, including multiple relevant diagrams and detailed explanations, would enhance clarity and enable a proper evaluation.</li></ul>

### 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   583	
<i>Strong Points</i>	<i>Areas of Improvement</i>
<ul style="list-style-type: none"><li>• A strength of this entry was the characterization of business impacts. The examples listed by the project team mirror those that a real-world management team would need to receive updates on to effectively lead a company back from the stated consequences.</li><li>• The team effectively established a link between risk and probability with respect to business impacts, thereby illustrating</li></ul>	<ul style="list-style-type: none"><li>• This presentation could have been improved by using extra practice. Submitting the video with included cuts and resets served as a distraction from the intent of the simulated exercise. Retakes are certainly acceptable, however, this entry could have benefitted from additional refinement.</li><li>• The contributions of all team members were not clearly identified. Additionally,</li></ul>

<p>the importance of investing in the recommendations. I believe this approach will assist leadership in the decision-making process.</p> <ul style="list-style-type: none"> <li>• Good job providing cost estimates</li> <li>• Good explanation of major system vulnerabilities, importance of measures, and cost associated to vulnerability mitigations</li> </ul>	<p>there were some audio issues, and certain editing elements were overlooked at the beginning, which affected the coherence of the initial scene. The overall length of the video exceeded the time limit. It is important to adhere to the strict time limits set during meetings with leadership, as exceeding the allocated time may result in agenda items being postponed to a later date, which may not be possible.</p> <ul style="list-style-type: none"> <li>• How do your strategies reduce your specific business risks? How do those tie to your immediate high priority actions?</li> <li>• Ensure ample time for video edit and or proper transition between presenters; presenters broke composure and distraction arose from confusion of who was briefing next</li> </ul>
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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	50	25	25	25	50	50	0	50

Whack a Mole	
WAM1	WAM2
187	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	300
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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
1395	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
60