

2025

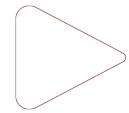


NCAE CYBERGAMES

PLAY | LEARN | PROTECT

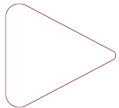
Report to the CAE Community
April 9, 2025



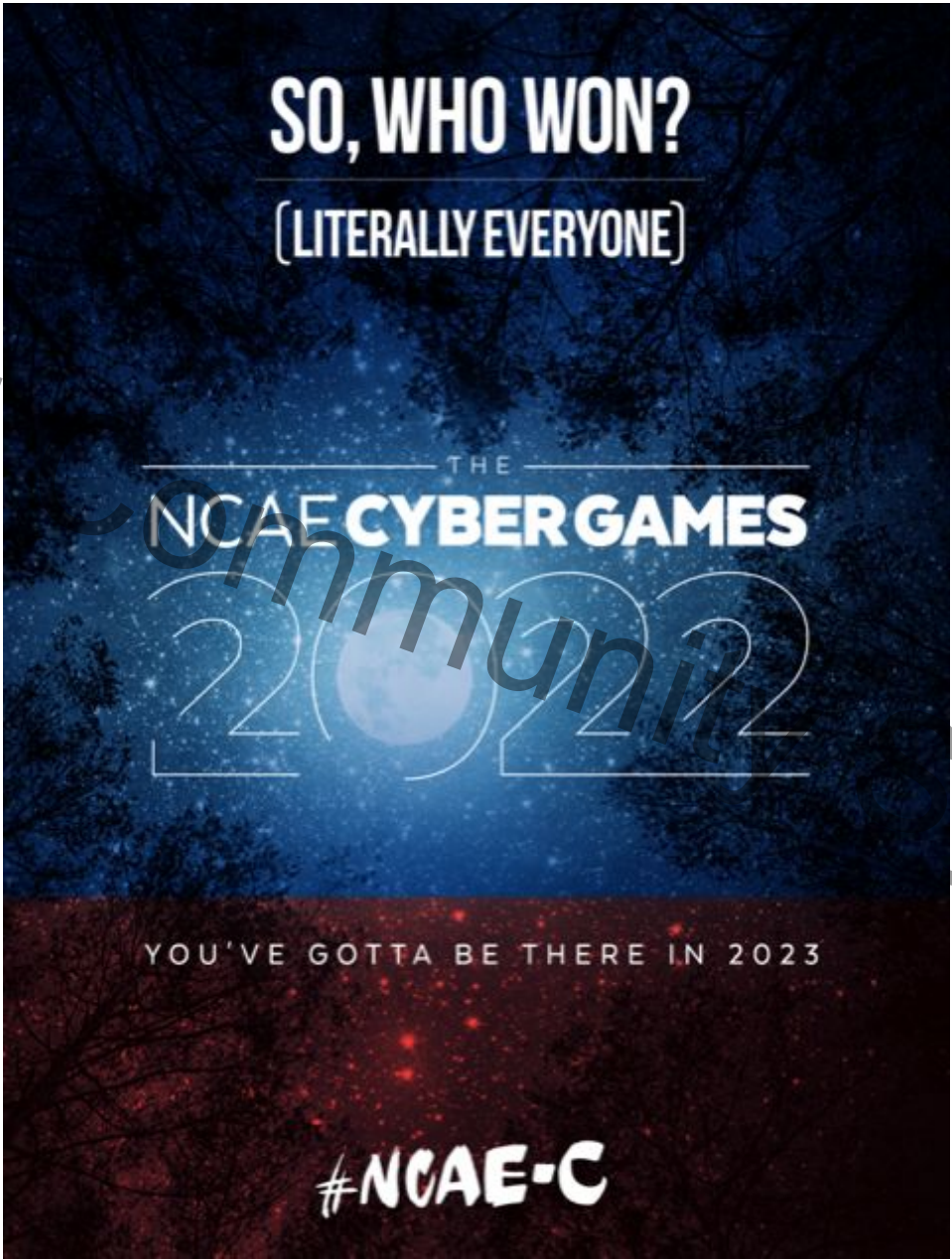


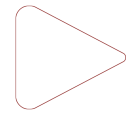
NCAE-C Strategic Plan for Cybersecurity Competitions

- Broaden the pathway into the cybersecurity competition landscape.
- Develop and implement a framework for evidencing competencies within competitions.
- Clarify the pathway through the competitions landscape for NCAE-C faculty and students.



2025 CAE





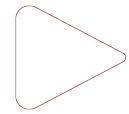
2025 Informal Results: Participation

CAE Institutions: 100

Participants: 1124

Teams: 140

YouTube Views: 27,709

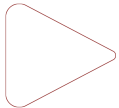


Meeting our Mission

First cybersecurity competition: 80%

Interested in more advanced competitions: 80%

Overall Event rating: 90%+



Sandbox Training Environment


Tutorial Videos

- 13+ Hours of Video
- 44 Videos
- 362 Chapters


```
6 172.20.0.2
7 172.20.0.2
8 172.20.0.2
sent=9 received=9 packet-loss=0% m
max-rtt=664us

admin@MikroTik1 > /ping 172.20.0.3
SEQ HOST
0 172.20.0.3
1 172.20.0.3
2 172.20.0.3
3 172.20.213.1
4 172.20.0.3
5 172.20.0.3
6 172.20.0.3
7 172.20.213.1
8 172.20.0.3
9 172.20.0.3
10 172.20.0.3
11 172.20.213.1
12 172.20.0.3
sent=13 received=0 packet-loss=100%

admin@MikroTik1 > /ip address add address=192.168.213.1/24 interface=ether4
admin@MikroTik1 >
```



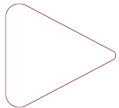
**NCAE
CYBERGAMES**
PLAY | LEARN | PROTECT



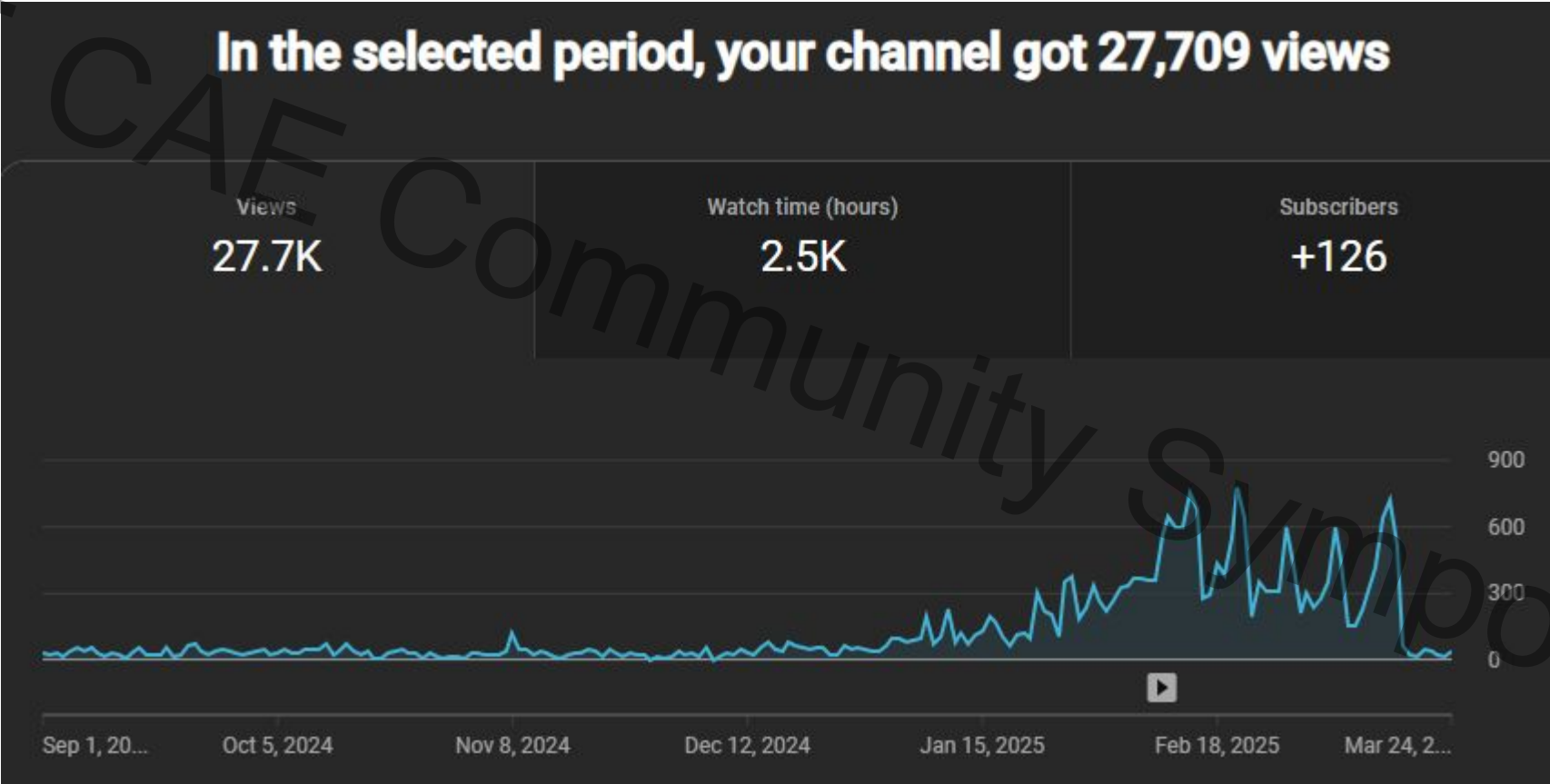
James Rice
jrice@c2games.org

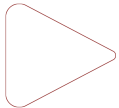
NCAE Cyber Sandbox

| | | | |
|----|----|-----------|--------------|
| 84 | 64 | 94ms637us | timeout |
| | | | host unre... |
| | | | timeout |
| | | | timeout |
| | | | timeout |
| 84 | 64 | 94ms708us | host unre... |
| | | | timeout |



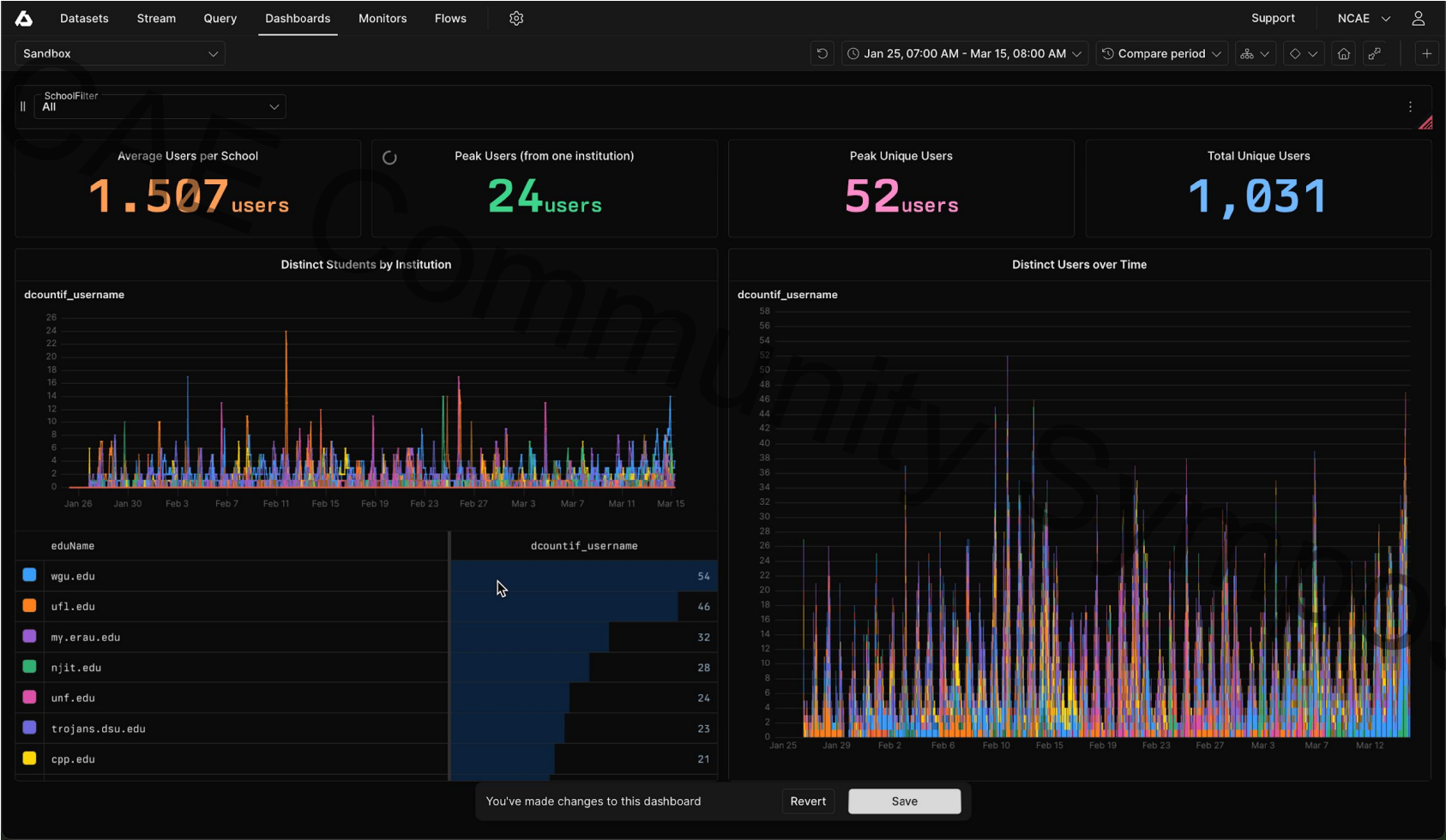
Participant Preparation 2025



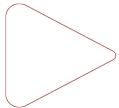


Participant Preparation 2025

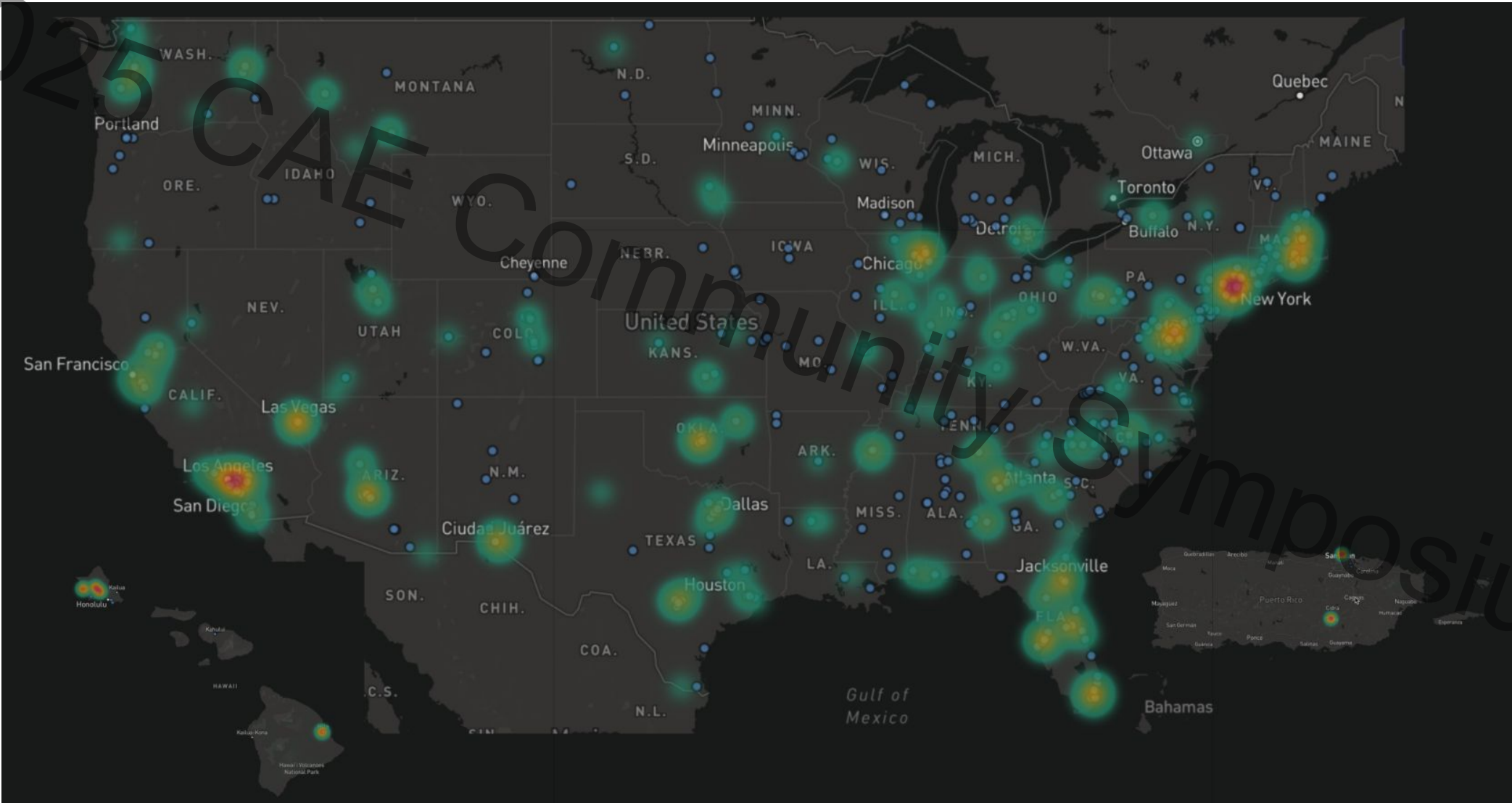
2025

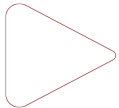


sium



Participant Preparation 2025





New for 2025 Sandbox: SOC Challenges

NCAE Sandbox

HomeSandbox ChallengesSOC Challenges

Brodie Davis

Note: SOC challenges are currently in testing. Progress may not be preserved.
Have feedback for us? Let us know in Discord!

Threat Hunting Overview

Soc Triad

MITRE Framework

Accessing the Environment

Part 1 Scenario

1 - SQL Injection

2 - Webshell (B734K)

3 - Malicious File Upload via BITS

4 - Data Exfiltration over FTP (AgentTesla variant #2)

Use the following url to access the environment: https://grawell.sandbox.ncaecybergames.org/search/launch?query=tag%3Dzeek*&timeframe=today

Username: analyst

Password: analyst

In the top right of the Query Studio, ensure the query timeframe is set to "Today".

NOTE: THE DATA IN THIS ENVIRONMENT DELETES AND REPLAYS EVERYDAY AT 3AM EST. KEEP THAT IN MIND WHEN CARVING THE DATA

log(...)

Submit Flag

Previous Submissions

Mar 25, 7:07 PMflag(whoami)Correct!

Mar 25, 7:07 PMjls

Mar 25, 7:07 PMattempt

Flag Submitted

grawell.sandbox.ncaecybergames.org/query-studio

Query Studio

tag=zeek*tag=zeekhttp gre...tag=zeek* (2)

1tag=zeek*

ResultsFieldsPerformanceStarred (0)

20,000

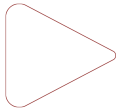
0

3/25/2025, 12:00:00 AM3/25/2025, 2:08:00 AM3/25/2025, 3:37:36 AM3/25/2025, 5:07:12 AM3/25/2025, 6:36:48 AM3/25/2025, 8:06:24 AM3/25/2025, 9:36:00 AM3/25/2025, 11:05:36 AM3/25/2025, 12:35:12 PM3/25/2025, 2:04:48 PM3/25/2025, 3:34:24 PM3/25/2025, 5:04:00 PM3/25/2025, 6:33:36 PM

Data

| | | | | | | | | | | | | | | | | | | | |
|-------------------|---------------------|--------------------------|------|----------|------|-----|---|----------|------------------|---|------------------|------|---------|---|---|---|---|---|--|
| 1742944086.151964 | CPnuU43iz1UhcjIS0b | fe80:e047:f3c6:17db:aa34 | 5353 | ff02::fb | 5353 | udp | 0 | 0.751879 | _lpp_tcp.local | 1 | C_INTERNET 12 | PTRO | NOERROR | T | F | F | F | 0 | scoreboard.local;fe80:e047:f3c6:17db:aa34 |
| 1742944083.957845 | CKiPoc3933SpPvZ7Cgj | fe80:abea:d581:dda:c869 | 5353 | ff02::fb | 5353 | udp | 0 | 1.913051 | scoreboard.local | 1 | C_INTERNET 255 * | 0 | NOERROR | T | F | F | F | 0 | scoreboard.local;fe80:abea:d581:dda:c869 |
| 1742944093.799375 | CKiPoc3933SpPvZ7Cgj | fe80:abea:d581:dda:c869 | 5353 | ff02::fb | 5353 | udp | 0 | 0.862847 | _lpp_tcp.local | 1 | C_INTERNET 12 | PTRO | NOERROR | T | F | F | F | 0 | scoreboard.local;fe80:abea:d581:dda:c869 |
| 1742944081.797203 | C7c6oUABINNN0807 | fe80:3127:8f76:d337:77d5 | 5353 | ff02::fb | 5353 | udp | 0 | 0.962119 | _lpp_tcp.local | 1 | C_INTERNET 12 | PTRO | NOERROR | T | F | F | F | 0 | analyst-ncae-siem.local;fe80:3127:8f76:d337:77d5 |
| 1742944081.171372 | CsGpu93zGvYUslzCyg | fe80:a269:44d3:7f9d:52b6 | 5353 | ff02::fb | 5353 | udp | 0 | 6.290980 | _lpp_tcp.local | 1 | C_INTERNET 12 | PTRO | NOERROR | T | F | F | F | 0 | sandbox-ubuntu.local;fe80:a269:44d3:7f9d:52b6 |
| 1742944081.165518 | CsGpu93zGvYUslzCyg | fe80:a89:cbd7:7b3f:2308 | 5353 | ff02::fb | 5353 | udp | 0 | 3.526824 | scoreboard.local | 1 | C_INTERNET 255 * | 0 | NOERROR | T | F | F | F | 0 | scoreboard.local;fe80:a89:cbd7:7b3f:2308 |
| 1742944080.915254 | CsGpu93zGvYUslzCyg | fe80:a89:cbd7:7b3f:2308 | 5353 | ff02::fb | 5353 | udp | 0 | 1.789265 | scoreboard.local | 1 | C_INTERNET 255 * | 0 | NOERROR | T | F | F | F | 0 | scoreboard.local;fe80:a89:cbd7:7b3f:2308 |
| 1742944080.878089 | CsGpu93zGvYUslzCyg | fe80:a89:cbd7:7b3f:2308 | 5353 | ff02::fb | 5353 | udp | 0 | 0.738750 | _lpp_tcp.local | 1 | C_INTERNET 12 | PTRO | NOERROR | T | F | F | F | 0 | scoreboard.local;fe80:a89:cbd7:7b3f:2308 |
| 1742944080.329615 | CsGpu93zGvYUslzCyg | fe80:a269:44d3:7f9d:52b6 | 5353 | ff02::fb | 5353 | udp | 0 | 5.098792 | _lpp_tcp.local | 1 | C_INTERNET 12 | PTRO | NOERROR | T | F | F | F | 0 | sandbox-ubuntu.local;fe80:a269:44d3:7f9d:52b6 |
| 1742944080.308118 | CsGpu93zGvYUslzCyg | fe80:a269:44d3:7f9d:52b6 | 5353 | ff02::fb | 5353 | udp | 0 | 5.038727 | _lpp_tcp.local | 1 | C_INTERNET 12 | PTRO | NOERROR | T | F | F | F | 0 | sandbox-ubuntu.local;fe80:a269:44d3:7f9d:52b6 |
| 1742944080.155386 | PWlhmY1HXYVaveDHR | fe80:83c0:6bcb:d170:1637 | 5353 | ff02::fb | 5353 | udp | 0 | 3.537324 | scoreboard.local | 1 | C_INTERNET 255 * | 0 | NOERROR | T | F | F | F | 0 | scoreboard.local;fe80:83c0:6bcb:d170:1637 |

9



Software-Driven Registration and Tracking System

DISCOVER EXISTING TEAMS

These Teams already exist at your Institution. Interested in joining one? Contact the team captain today!

Mohawk Valley Community College
northeast east overflow Mohawk Valley Community College

Created on: January 25, 2024 at 04:33 PM EST
Size: 10
Captain:
Ruben Abreu rabreu27@student.mvcc.edu
Liaison:
James Rice jrice@mvcc.edu

| | |
|------------------|--|
| Ruben Abreu | rabreu27@student.mvcc.edu |
| Clay Jacobs | cjacobs06@student.mvcc.edu |
| Logan Williams | lwilliams20a@student.mvcc.edu |
| Griffin Haas | ghaas27@student.mvcc.edu |
| Selmedin Bobaric | sbobaric06@student.mvcc.edu |
| Benjamin Brutsky | bbrutsky02@student.mvcc.edu |
| Dominick Restive | drestive05@student.mvcc.edu |
| Brian Monette | bmonette18@student.mvcc.edu |
| Ethan Greene | egreene29@student.mvcc.edu |
| Lucas Mickle | lmickle20@student.mvcc.edu |

Mohawk Valley Community College 2
northeast east overflow Mohawk Valley Community College

Created on: February 01, 2024 at 03:55 PM EST
Size: 4
Captain:
Rayshard Pitkin rpitkin31@student.mvcc.edu
Liaison:
N/A

| | |
|-----------------------|--|
| Rayshard Pitkin | rpitkin31@student.mvcc.edu |
| Uladzislau Kazakevich | ukazakevich12@student.mvcc.edu |
| Sam Macinsky | smacinsky21@student.mvcc.edu |
| Nidal Ramic | nramic21@student.mvcc.edu |

NCAE CyberGames 2024 Regionals

Northeast 1 - NCAE CyberGames 2024 Regionals

Region - northeast

Event Start: February 17, 2024 at 09:00 AM EST

Duration: 7 hours

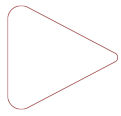
Registration Ends: 2 days 21 hours

Roster Change Ends: 9 days 21 hours

Event Checklist

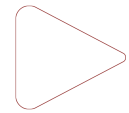
- ✓ **Team Limit**
This event has 9 / 12 registered teams.
- ✗ **Minimum Team Size**
This event requires a minimum of 3 team members.
- ✓ **Maximum Team Size**
This event requires a maximum of 10 team members.
- ✗ **Faculty Liaison**
This event requires a Faculty Liaison from your institution to be registered.
- ✓ **Region**
This event is only available to teams in the northeast region.
- ✓ **Institution Teams in Multiple Events**
Your institution has not registered for any other events in this competition.
- ✓ **Institution Team Limit**
Each Institution may only participate with 3 teams in this competition.

Register Team



2025 CAE Community Symposium

Infrastructure Red Team

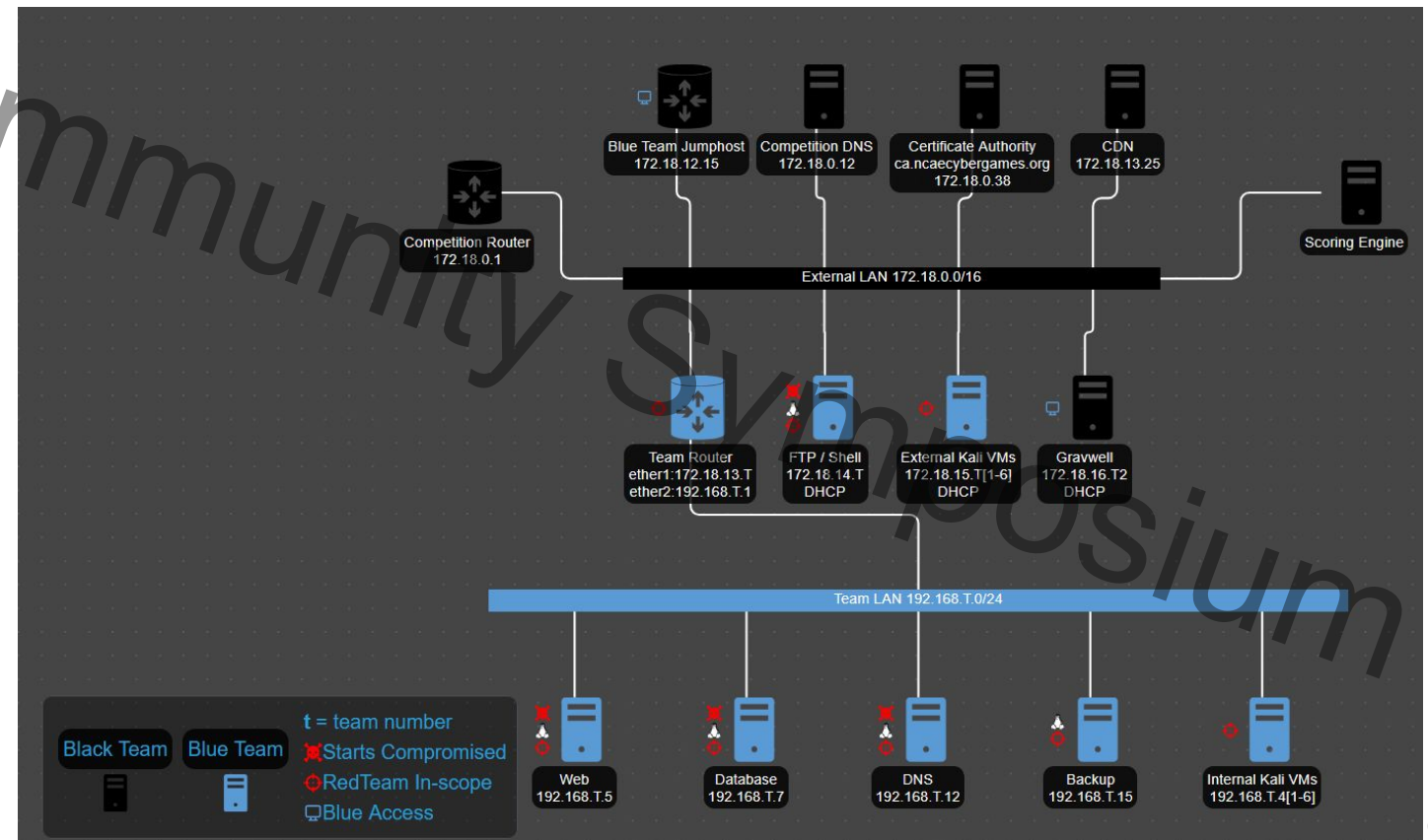


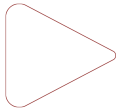
The Platform

- Competition environment is fully virtualized with the free Proxmox hypervisor
- Supported guest operating systems include:

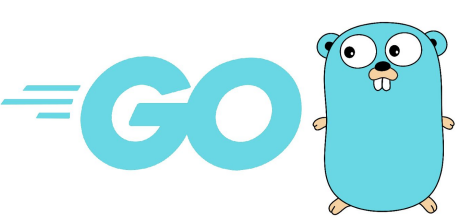
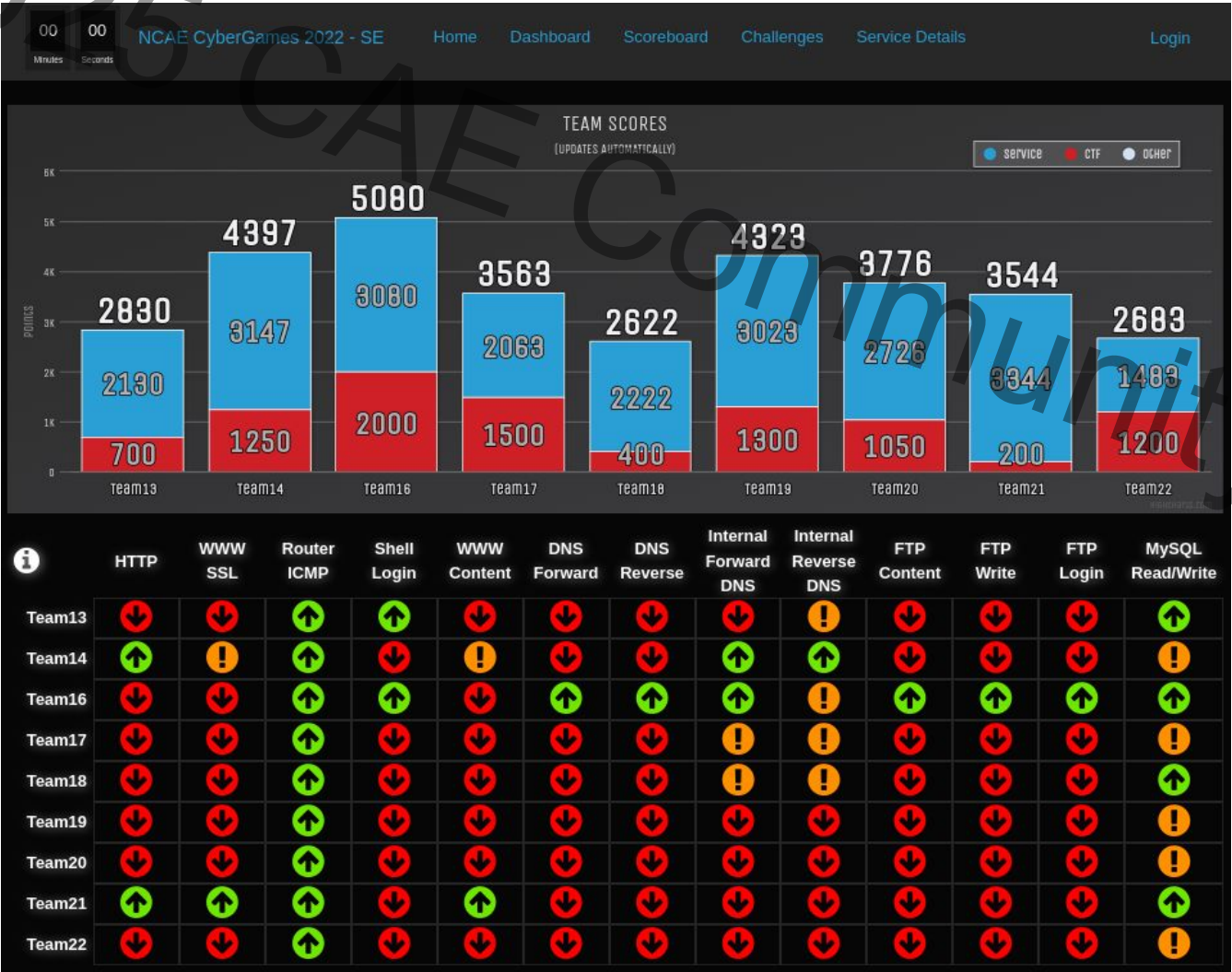
- Kali Linux
- Windows
- CentOS
- Ubuntu

13 Total Services
5 Server Systems
1 Backup Server
12 Kali systems





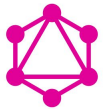
Competition Scoreboard & Scoring Platform



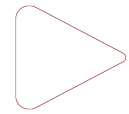
kubernetes



HASURA



GraphQL



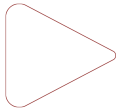
2025 Informal Results: Infrastructure

Total Service Checks, 2025 Season:
3,272,248

Average Service Checks/Event
211,526

Total password changes recorded:
4,000

Ransom dance videos received:
22



Red Team's Dynamic Approach

Alex Ramudo Today at 3:57 PM
Does red team have our FTP login by chance :->

Jonathan Wells Today at 3:58 PM
Again???

Alex Ramudo Today at 3:58 PM
Dunno *shrugs*

Nicholas Doerner Today at 3:58 PM
that was not us but I can get it if you need

.....

Alex Ramudo Today at 3:58 PM
Hmm

Tristan Martin Today at 3:58 PM
We definitely have it

Matthew Hall Today at 3:58 PM
dont do it
i had to learn german

NCAE Competition Step-by-Step Guide

Summary

This document is a step-by-step guide for the NCAE Red vs Blue Competition Day

Outline

- HI FROM RED TEAM NCAE Co...
- T-00:30: Scoring Begins VMs / ...
- T-00:00: Competition Begins
- Securing Machines
- Changing Passwords
- Firewalls
- Managing Users
- Securing Services
- Configuring S...
- Ra...
- Countin...
- CentOS
- 2nd Possible Area for Conf...
- Servers
- Web
- SSH
- DNS
- Backup

HI FROM RED TEAM

NCAE

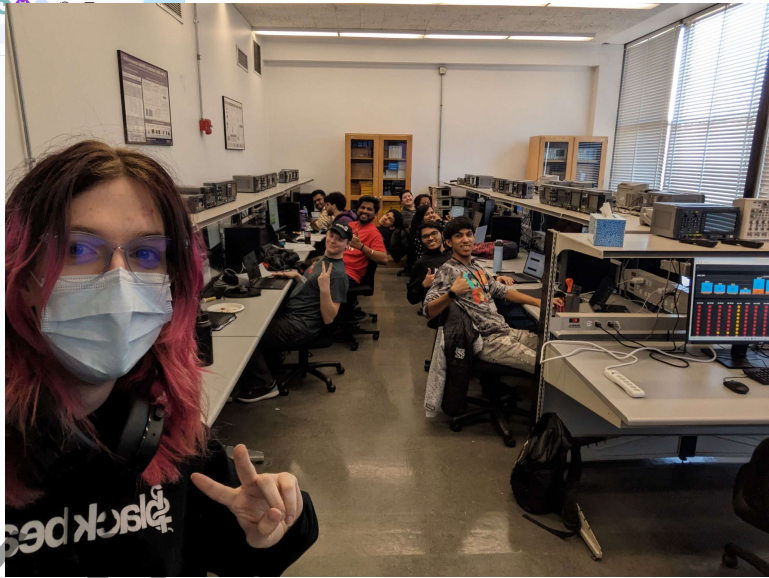
Competition Step-by-Step Guide

This document is a step-by-step guide for the NCAE Red vs Blue Competition Day

T-00:30: Scoring Begins VMs / CTF Opened

30 minutes before the competition starts, you should be getting the next couple of things ready:

- Go over **who's doing what, and when**
- Reiterate the main goals of the competition
- Remind staying calm is key



Nicholas Doerner Today at 3:42 PM
@Blue Team wanna see how we are still getting in?

<http://exploits.ncaecybergamesred.org/>

Bernard Correa Today at 3:42 PM

BRUH

Paulane Tulop Today at 3:42 PM

Adam Maugans Today at 3:43 PM
That had to play on our projector speakers

Alex Olmsted Today at 10:56 AM
plz

Andrew Willman Today at 10:56 AM
Things you may need to know:
root:iloveredteam

PERFECT

Red Team- Discord Engagement



Mohamed Trigui Today at 4:21 PM

red team overlords, did you change our password for shell/ftp? 🤔



Bryer Esengard Today at 4:21 PM

oh, we thought root was locked... we didn't think you wanted him anymore



Tristan Martin Today at 5:06 PM

We don't make backups of your files



Cameron Snider 🍀 Today at 5:06 PM

same lol



@Ryan Calderon Click to see attachment 📎

Andrew Willman Today at 6:08 PM

Things you may need to know:

```
Team 20 Shell Server  
root:I LoveRedTeam
```

❤️ 1 📄 1



Nathan Calderon Today at 6:08 PM

the things you'll do for points



@Charise Tuppey Heeeeyy so how might you be finding our passwords

Brodie Davis Today at 3:55 PM

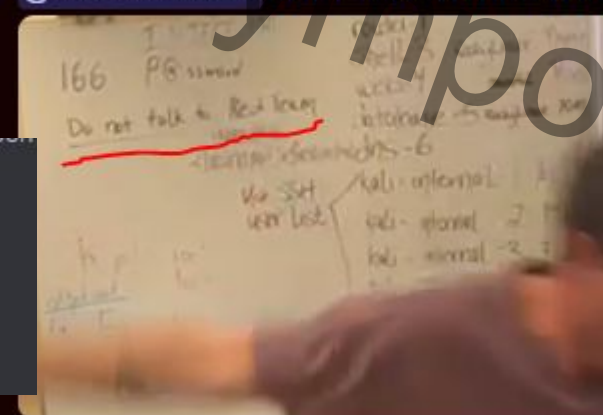
You sent them right to them!

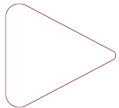
👉 1 👁️ 1 💀 1



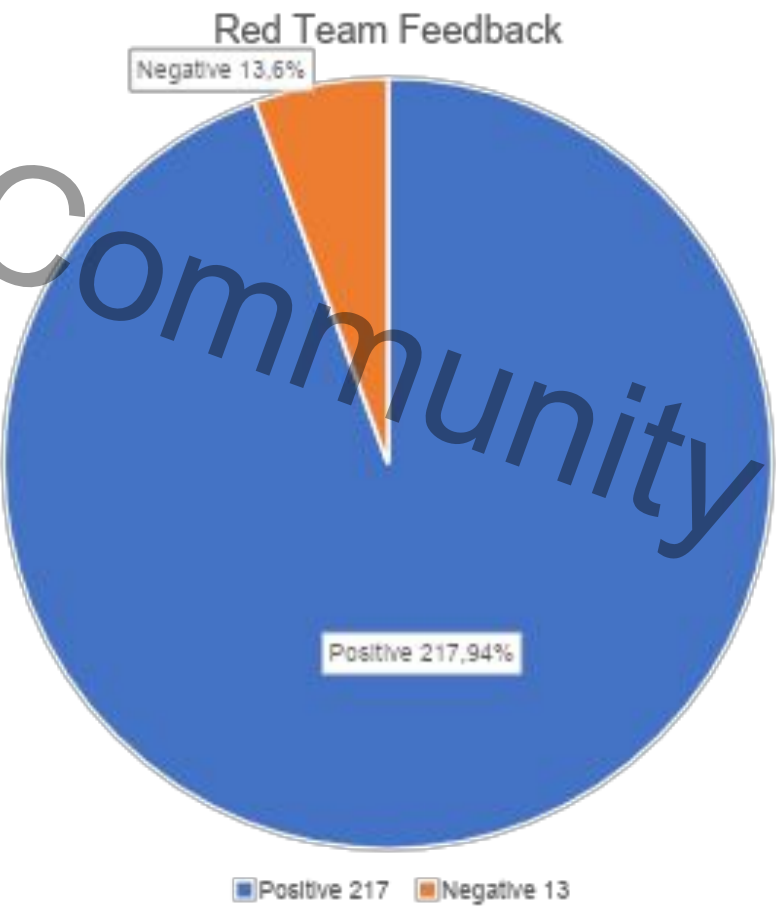
Andrew Willman Today at 1:42 PM

@20-tridenttech DONT TALK TO RED TEAMMMMM





Red Team Results



Engineering Advancements - Tracking

Scoring Feedback

FTP Login

↑

↑

↑

↑

!

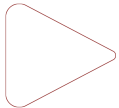
↓

↓

```
[
{
  "missing_files": [
    "amber_starlight.bin",
    "assassins_prayerbook.bin",
    "black_knifeprint.bin",
    "celestial_dew.bin",
    "darkmoon_greatsword.bin",
    "data_dump_1.bin",
    "data_dump_2.bin",
    "data_dump_3.bin",
    "datadump.bin",
    "deathroot.bin",
    "larval_tear.bin",
    "mantis_blade.bin",
    "memory_stone.bin",
    "miniature_ranni.bin",
    "miniature_ranni.bin"
  ]
}
```

Exploit Tracking

| | Team0 | Team1 | Team2 | Team3 | Team4 | Team5 | Team6 | Team7 | Team8 | Team9 | Team10 | Team11 | Team12 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Redis RCE Shell | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| Redis RCE DNS | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| Redis RCE WWW | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| Redis RCE MySQL | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| Webmin DNS | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| Webmin MySQL | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH router redteam | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH router root_malicious_key | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH router default_root | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH router sshd_backdoor_router | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH shell mal_users | ! | ! | ! | ! | ! | ! | ! | ↑ | ! | ! | ! | ! | ! |
| SSH shell ansible | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| SSH shell redteam | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| SSH shell root_malicious_key | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| SSH shell sshd_backdoor | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| SSH shell nobody | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| SSH shell default_root | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ |
| SSH www mal_users | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ! | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH www ansible | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH www redteam | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH www root_malicious_key | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH www www-data | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH www nobody | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH www default_root | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH db mal_users | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ! | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH db ansible | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH db redteam | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH db root_malicious_key | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH db nobody | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH db default_root | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH dns mal_users | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ! | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH dns ansible | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH dns redteam | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH dns root_malicious_key | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH dns sshd_backdoor | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH dns nobody | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |
| SSH dns default_root | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ |



Capture The Flag (CTF)



Trivia



Exploitation



Crypto



Reverse Engineering

Crypto

Hidden Data

100

Secure Storage

150

Secure in Transit

150

Exploitation

ROTten Shell

150

Side Channel

300

ZipCodr

200

Ops

How Are Your Admi...

150

Programming

Easy Math!

300

Reversing

Lost Password

100

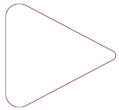
Hidden Password

200

mp

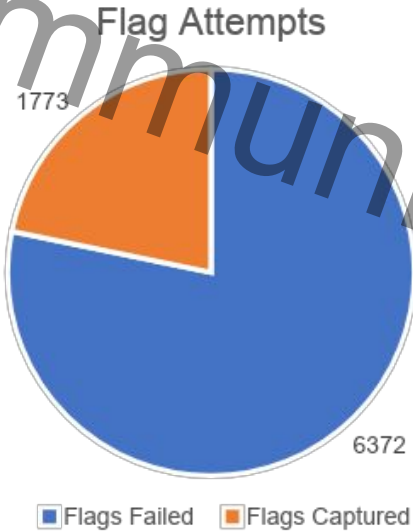
mp

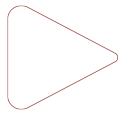
2025
Team



2025 Informal Results: CTF

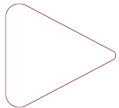
Total Points Awarded:
103,170





2025 CAE Community Symposium

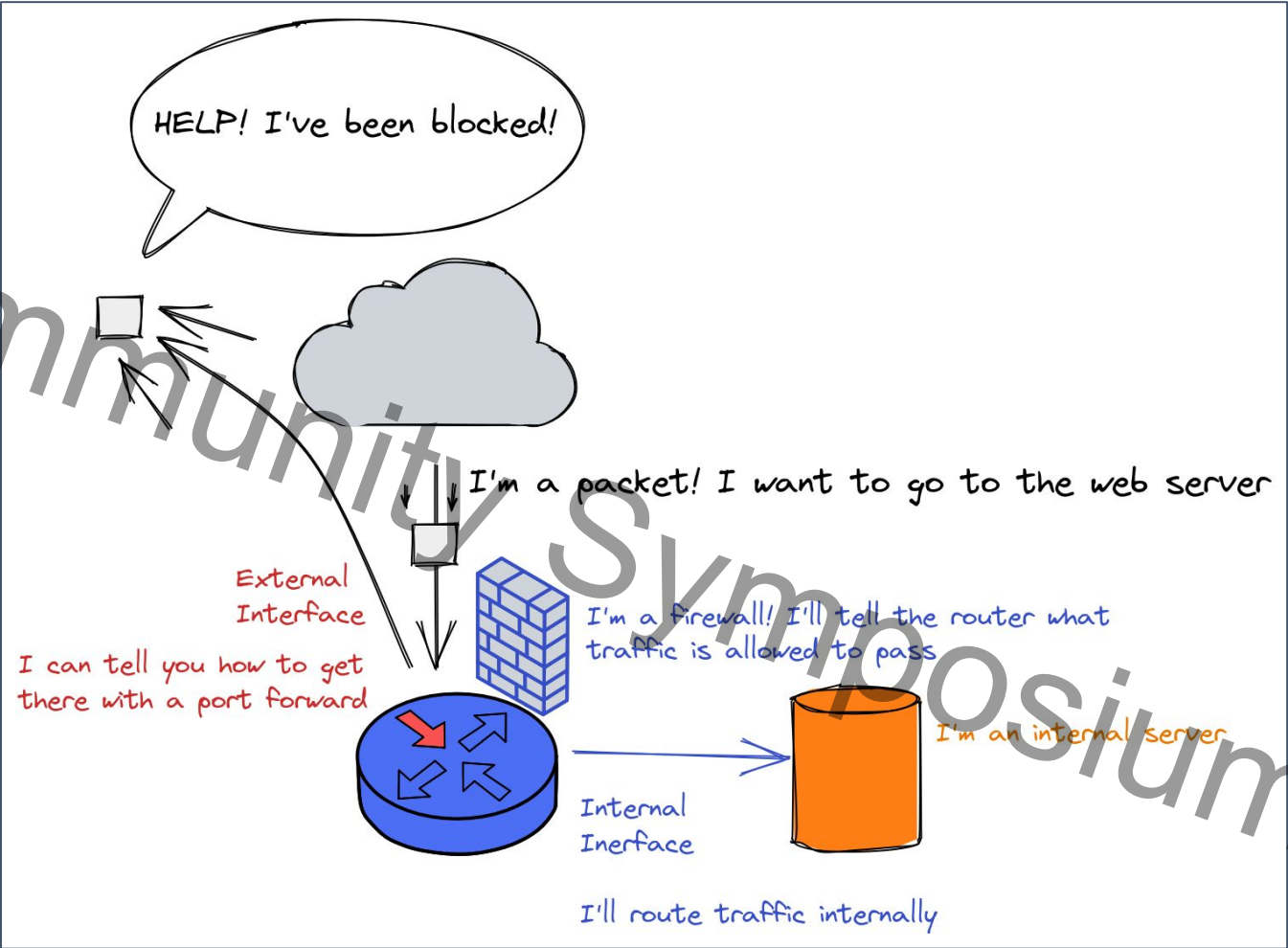
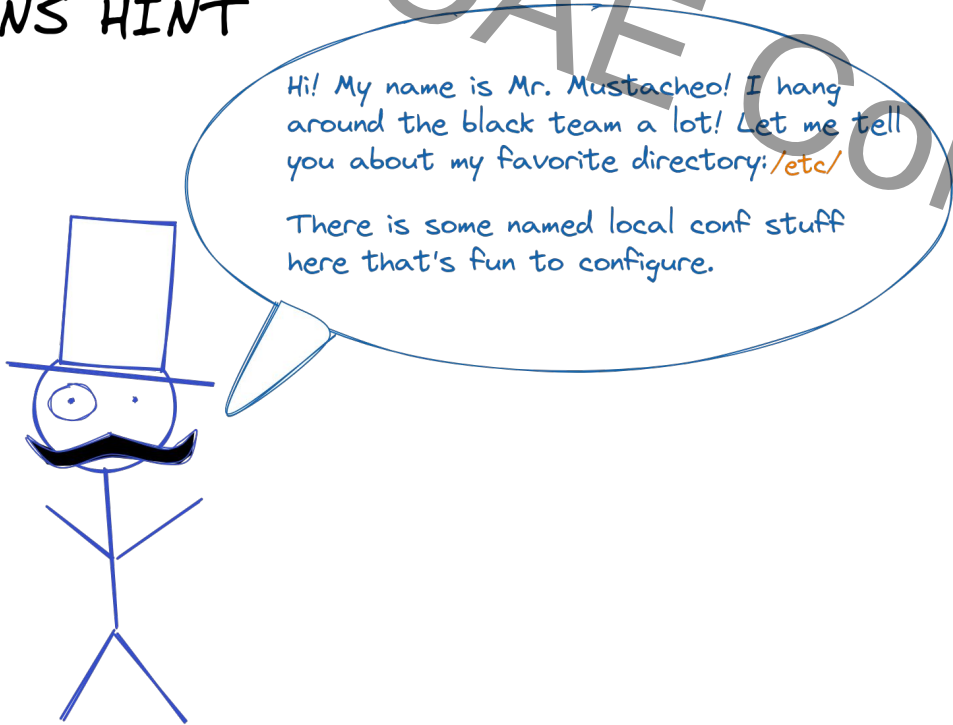
Black/Support Team

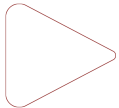


Black Team Learning Experience



DNS HINT

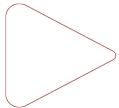




Black Team Learning Experience

Timeline



| Service | Hint Drop Time | Assistance Time | 9am Example | 11am Example |
|-------------------------|------------------|-----------------|----------------|----------------|
| Router | +00:30 | +01:00 | 09:30/10:00 | 11:30/12:00 |
| FTP/SSH | +01:00 | +01:30 | 10:00/10:30 | 12:00/12:30 |
| WWW/DB Server | +01:30 | +02:00 | 10:30/11:00 | 12:30/13:00 |
| Red Team Survival Guide | +02:45 | | 11:45 | 13:45 |
| Break for Lunch | +03:00 to +04:00 | | 12:00 to 13:00 | 14:00 to 15:00 |
| DNS | +04:30 | +05:00 | 13:30/14:00 | 15:30/16:00 |
| SSL x509 | +05:30 | +06:00 | 14:30/15:00 | 16:30/17:00 |



Blue Team Assessments

Midwest 2

Illinois Institute of Technology 1




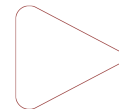
How'd you do?

THE 2024

NCAE **CYBER GAMES**

BY THE NUMBERS

| | | |
|--|--|------------|
| SERVICE POINTS | FINAL SCORE | CTF POINTS |
| 2281 | 3031 | 750 |
| TOP SERVICE | FLAGS CAPTURED | |
| Router ICMP | 13 / 23 | |
| 96% Uptime | | |
| Most Improved Teammate | Most Valuable Teammate | |
|  |  | |
| N*****n J*****n | B*****n d*****r | |



Blue Team Assessments

What did our team have to say about yours?

How well did your team work together?

From what I could tell, they separated duties well and worked evenly on several paths.

- Black Team

What skills should this team work on?

They had some difficulties early on, knocking out a service that was already configured and just needed to be turned on. I think some more time ought to have been spent checking their surroundings before moving forward. That said, they did put in the time to reconfigure and set up the service again, which was great to see.

- Black Team

How well did your team solve CTFs?

Great job on the hunting, web, IoT, and reversing! You all really did a bit of everything today.

- Orange Team

How well did your team defend services?

Heroically beat back red team by kicking us out of the FTP server!

- Red Team

Overall, your team did fairly well defending services. You have an interesting technique of having the service down to secure it. We could not even touch your DNS server so kudos to you.

- Red Team

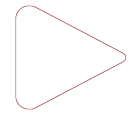
The DNS server was locked down the moment it came online, granting a lot of points.

- Red Team

What could you improve?

Consider spreading that level of attention on more servers and services!

- Red Team



2025 CAE Community Symposium

National Finals
April 12, 2025
University of South Florida
Tampa, FL

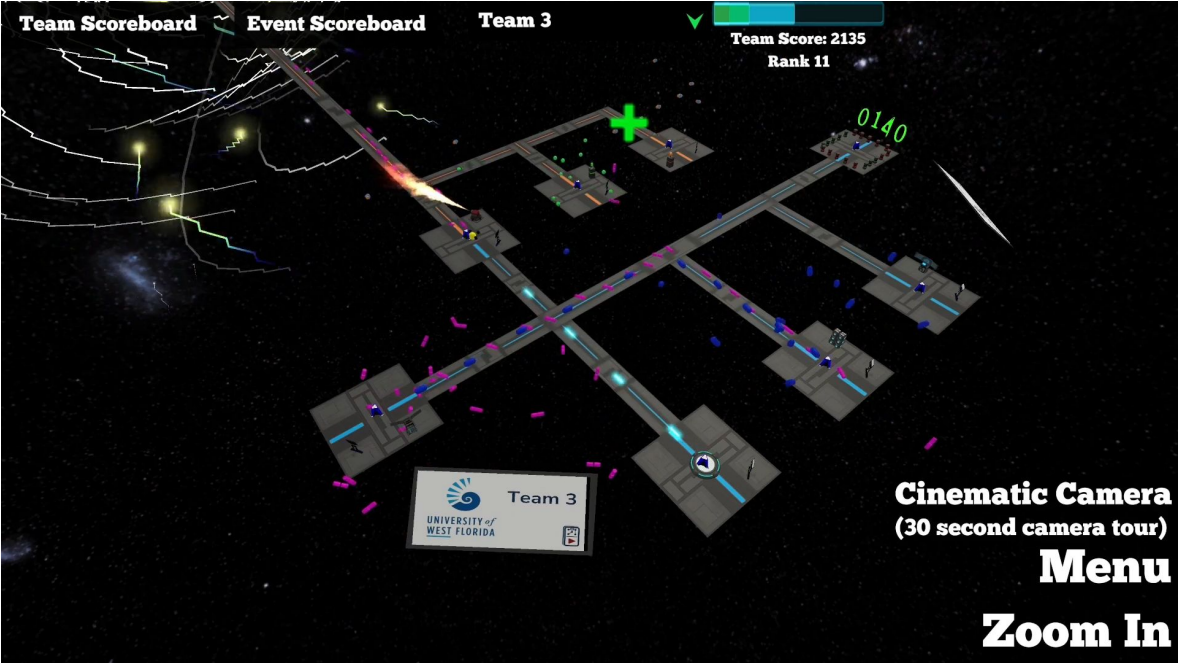
2025 CAE C

MAIN COMPETITION ROOM
CAMERA 1



MAIN COMPETITION ROOM
CAMERA 2







Team 11



View All Teams

Interactive Topology View

Event Playback

Last Update: 1:58:44
Next Update: ~1 Minute

4/20/2024 1:59:35 PM



Overview

#5

Current Rank

3080

Total Points

7

Services
Online

12

CTF's Solved



OFF

Toggle
Service
Details

Service Status



Online



Router



SSH



FTP Login



FTP Write



FTP
Content



WWW
SSH



WWW
Content



WWW
SSL



SQL SSH



SQL
Login



DNS SSH



Int DNS

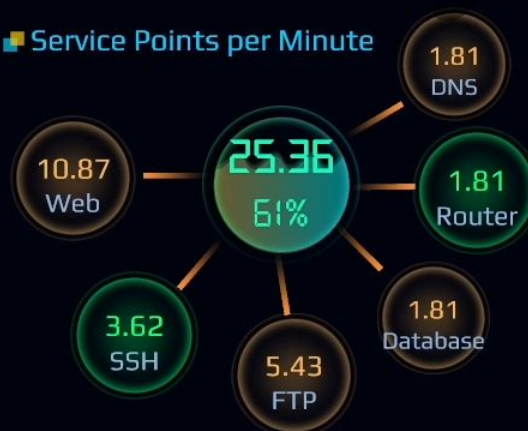


Ext DNS

Your Team vs. Event Leader



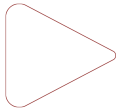
Service Points per Minute



Top Points Per Minute

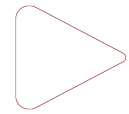






CAE Cyber Competitions Atlas- Map View





Measuring Competency with the Cyber Games

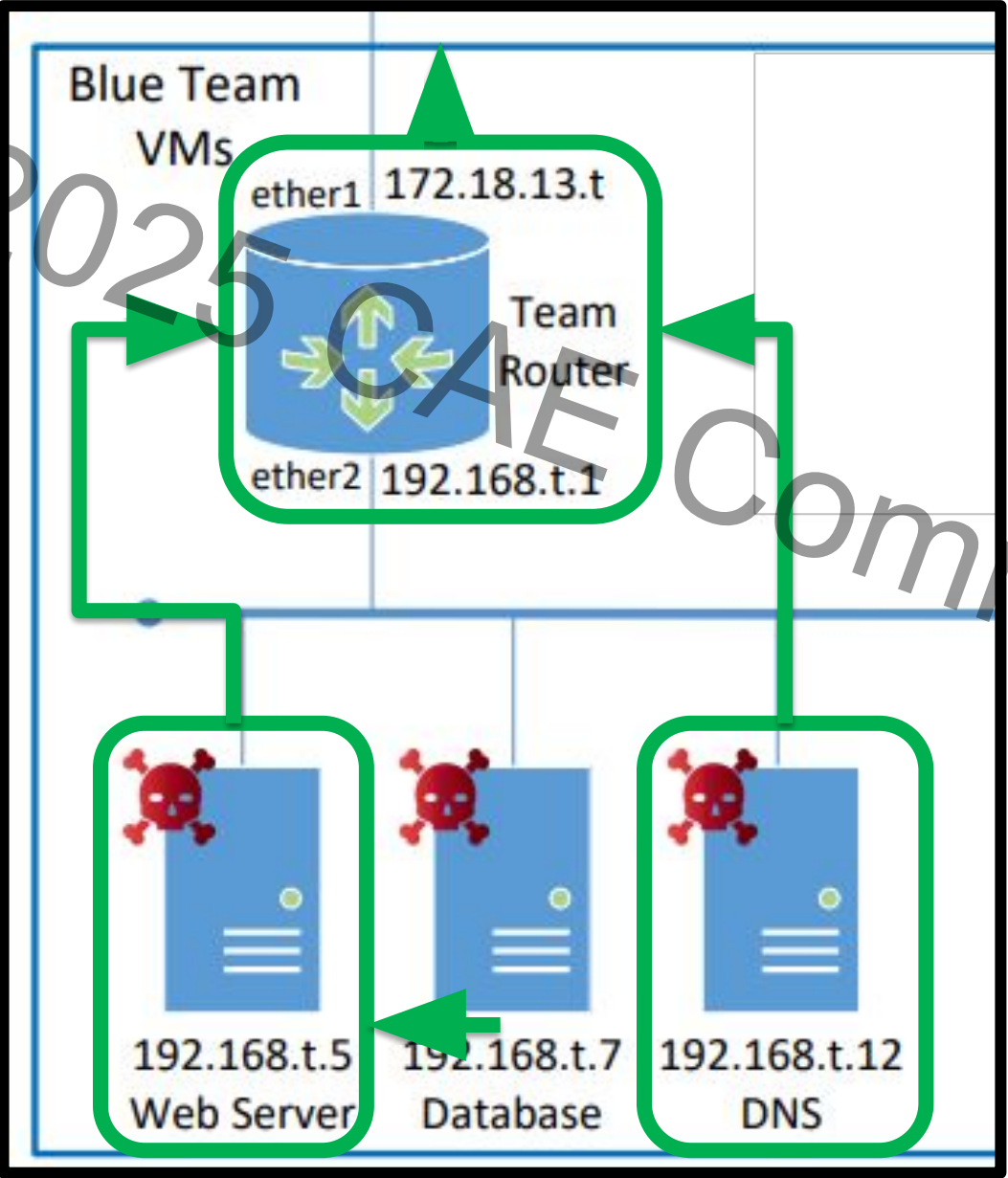
Goal: Identify trackable competency milestones of value within the NCAE Competition.

Approach: Pilot leveraging Discord surveys and correlate to backend scoring infrastructure data. Focus on taking the initial steps of tracking beyond CTF and inside the contested (red-teamed) portion of the competition.

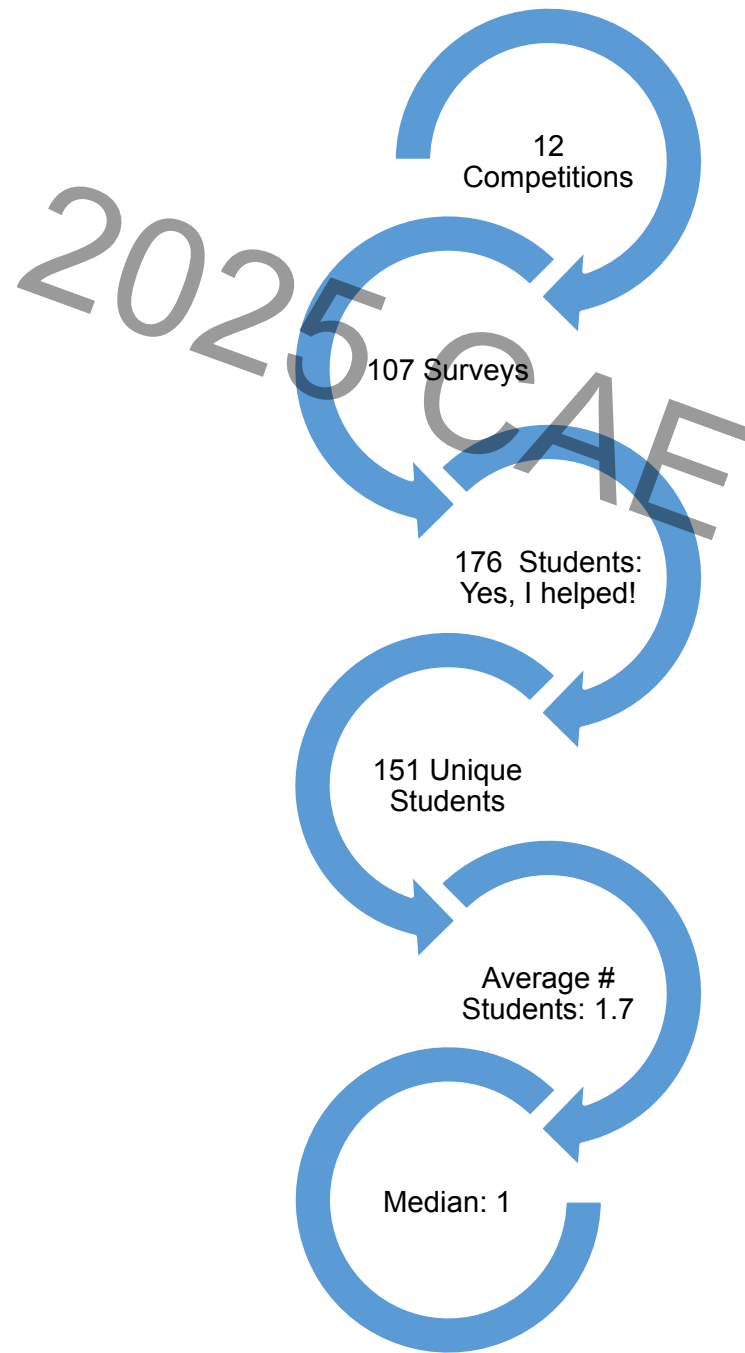
Outcomes: Successfully identified students involved in the initial configuration of a series of networking and infrastructure services.

Next Steps: Expand and refine ability to automate and further attribute student actions within the competition environment. Award milestone badges to students.

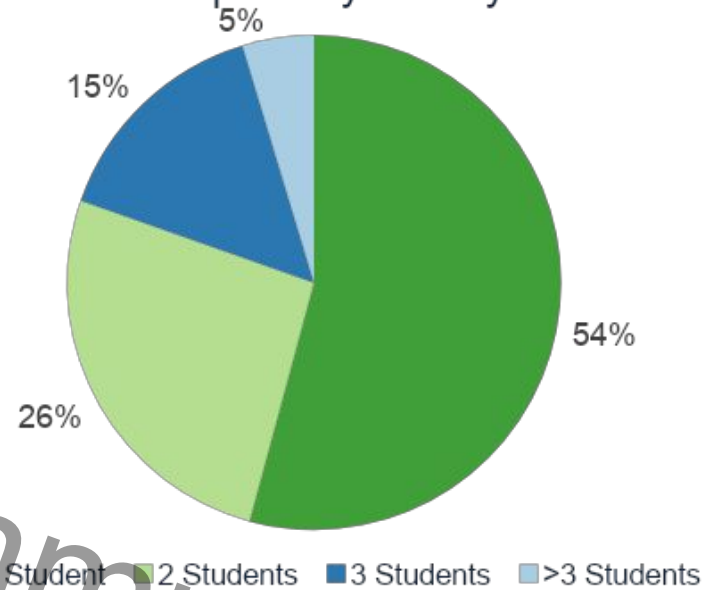
4 Contested Service Competencies



| Server Name | Requirements |
|-----------------------|--|
| Webserver Online | Webserver installed, not running, and networking is offline, requires router rules. |
| Webserver Content | Requires active Webserver and intact routing, Content requires configured Database server, initially offline and lacks correct user permissions. |
| Webserver HTTPS | Requires active Webserver and intact routing, HTTPS cert provided via competition certbot CA, requires troubleshooting broken packages. |
| DNS Forward & Reverse | Bind installed, unconfigured zone files, requires routing rules. |

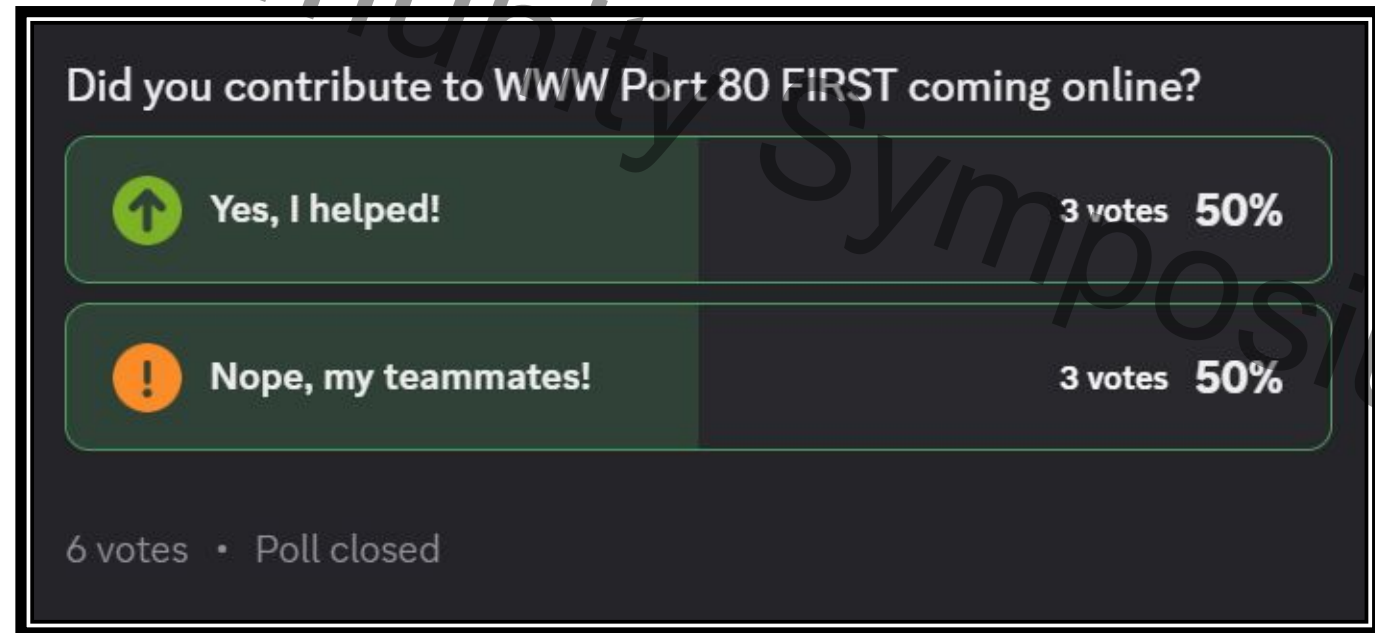


Number of Students Responding "Yes" per Competency Survey



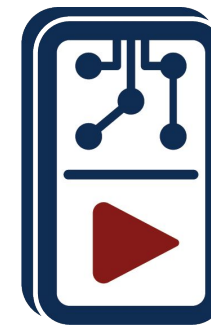
80% of measured services configured in contested environment by 1-2 students.

Supports notion that teams are delegating subgroups to work on specific services.



Sample Discord Poll

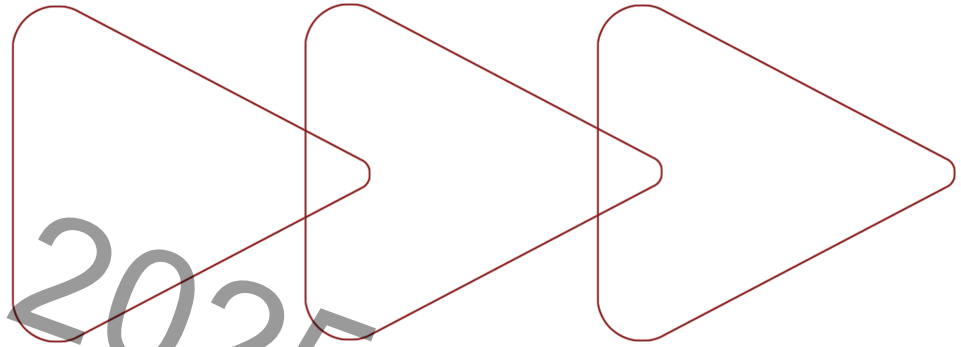
2025



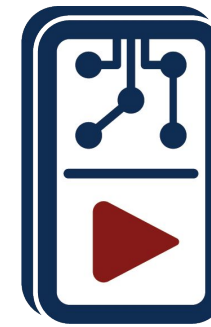
NCAE
CYBERGAMES

PLAY | LEARN | PROTECT





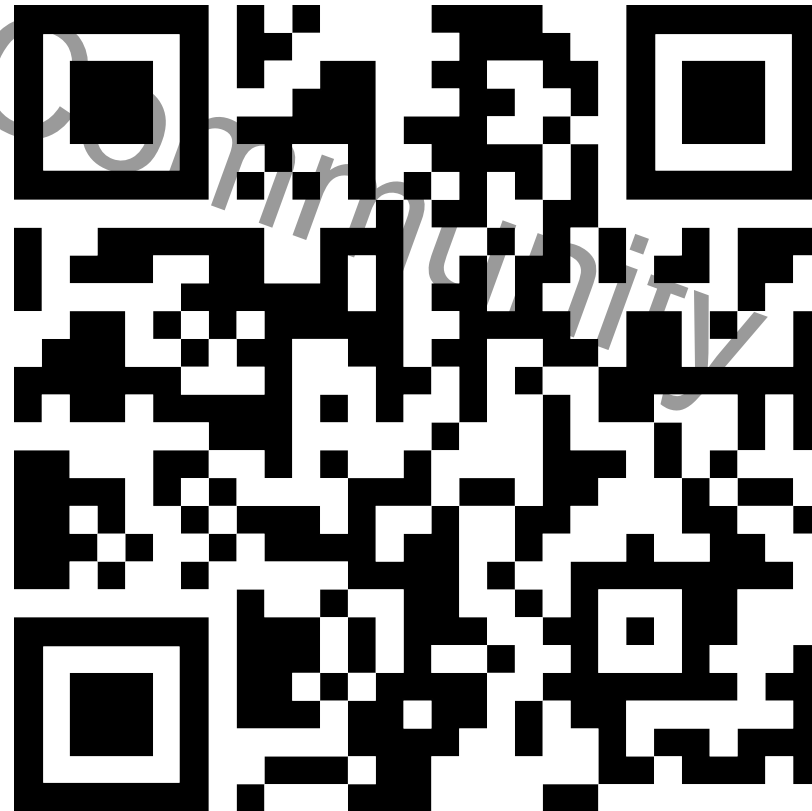
2025 CAE



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Symposium

