Final Project

By Sebastian Medina

Content:

Summary from NCAE Cybergames:

I decided to do the NCAE Cybergames for my final project. I was in a group with 9 people and Abraham Avila was our team captain. This competition took place on March 16th from 9 AM till 4 PM. Before this day our group would meet every Friday at 3 PM to practice CTF if you were on the CTF part of the team or Infrastructure if you were on the infrastructure part of the team. I was on the CTF team so I would practice CTF every Friday. Whenever I was practicing CTF I was mostly focusing on Cryptography and Reverse Engineering problems because those were the topics that my group assigned to me. While practicing I used try hack me to learn as much about the two topics I can learn, then I would go on the NCAE cybergames website and do their practice problems that best resembled one of the two topics that I was assigned. I think having this practice once a week was helpful and I was not caught off guard the day of the competition. March 16th rolls around and our group shows up an hour early so we can get prepared and ready for the competition. When 9 came around the competition was off and the first few problems for CTF were launched. So right away our team found out that more and more CTF problems will be dropped as the competition continues. So the first few CTF problems were simple and we flew by them as a team. Below is one of the first problems I worked on.
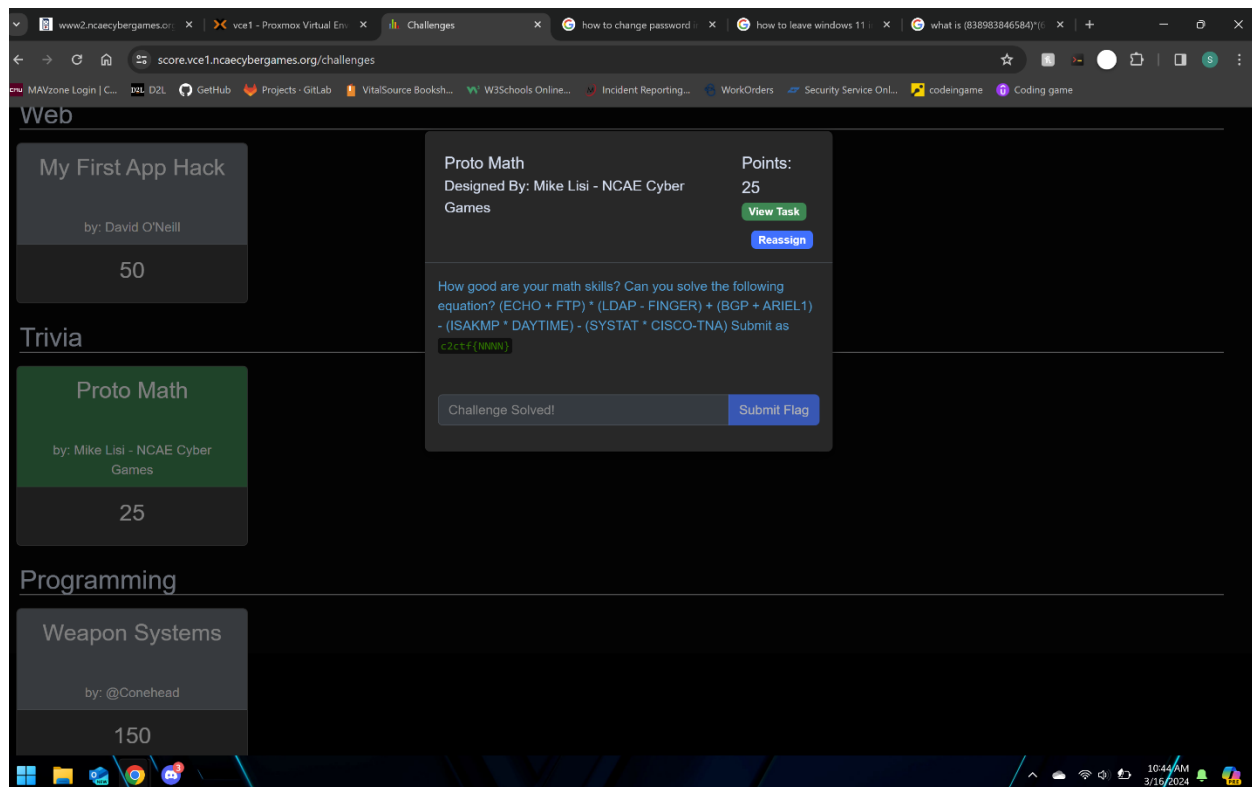
The team and I worked on CTF problems until around noon where we got a lunch break. Once we came back our team noticed that there were way more CTF problems to complete. What we noticed was that the problems started to have levels and problems you must solve first before you can move on to the next one. We kept working on the CTF problems and gained a good score just of CTF. I did not really work on infrastructure, but I do know that the people who did work on it struggled a little bit before we got some systems up and running. When noticed that the other CMU team started to beat us towards the end. So, our CTF team started working together on problems to get some of the CTF that are worth more

points done. I found this helpful because more than one person working on a problem was a lot easier to figure out the issue. I was assigned to work with both Sam Evans and Kyle Verbrugge. We kept working until the competition stopped and we ended up getting fourth in the competition.
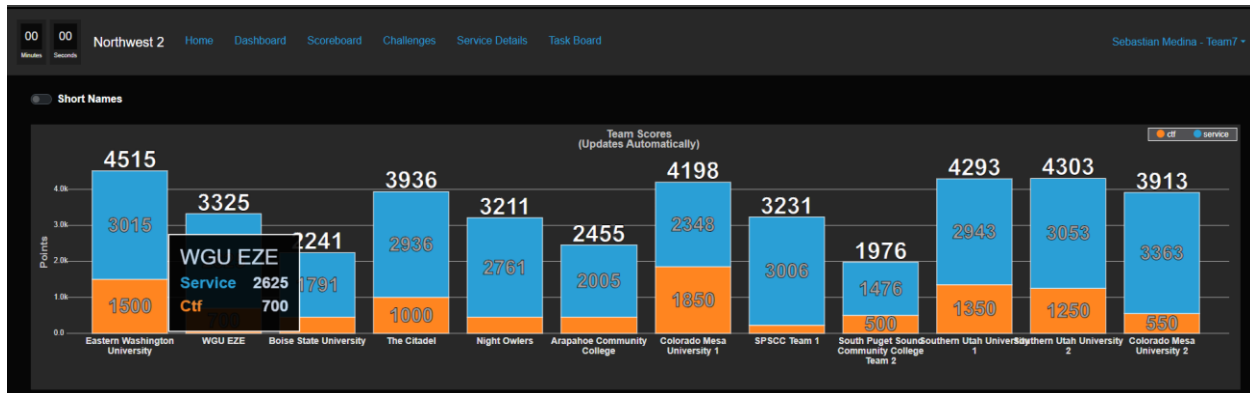
What I think carried us to this position was the CTF team we worked on and almost completed all the CTF problems by the end. This competition was a lot of fun and I really enjoyed it. If I was still in school next year, I would compete in this competition again. Below are all the problems our CTF team completed for this competition.

Wyze Guys

1 - Monday Morning Mayhem	2 - From the Source	3 - Time to Dig In	4 - Who Dere?
by: Jarrett Iannotti	by: Jarrett Iannotti	by: Jarrett Iannotti	by: Jarrett Iannotti
50	50	100	150

Hunting

1 - Syndicate Threat	2 - We are all Pals	3 - Pal Manifesto	4 - Syndicate Heist	5 - Incident Report
by: Cody Spooner - NCAE Cyber Games	by: Cody Spooner - NCAE Cyber Games	by: Cody Spooner - NCAE Cyber Games	by: Cody Spooner - NCAE Cyber Games	by: Cody Spooner - NCAE Cyber Games
50	100	100	100	250

Misc

A Blank Slate
by: Joshua Inscoe - Carnegie Mellon University
50

Trivia

Bubbleboy	Gang's All Here	Networking 101	Proto Math
by: Mike Lisi - NCAE Cyber Games	by: Mike Lisi - NCAE Cyber Games	by: Sean Radigan - NCAE Cyber Games	by: Mike Lisi - NCAE Cyber Games
25	25	25	25

Misc/General Skills

Enclave Oil Rig
by: Brodie Davis - NCAE Cyber Games
100

Survey

GG
by: NCAE Cyber Games
100

Web

Web

My First App Hack	PHP Drive (Easy)	PHP Drive (Hard)
by: David O'Neill	by: Max Fusco (http://github.com/1nv8rZim)	by: Max Fusco (http://github.com/1nv8rZim)
50	100	150

Exploitation

Overflow 1	Overflow 2
by: @legoclones - Brigham Young University	by: @legoclones - Brigham Young University
50	100

Reversing

The Walking Dead
by: Joshua Inscoe - Carnegie Mellon University
100

Programming

Reversing

The Walking Dead
by: Joshua Inscoe - Carnegie Mellon University
100

Programming

Weapon Systems
by: @Conehead
150