



Cyber Security

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Contest Overview and Components

Teams will participate in a Capture The Flag competition where they will solve challenges and score points by conquering countries. Challenges will be simple to complex in areas such as cryptography, log analysis, packet analysis, password cracking, open source intelligence, and image meta data analysis. Students will learn fundamentals of cryptography, password cracking, and image meta data analysis that can be used in Cybersecurity investigations and analysis.

Teams will be provided background information, techniques, and resources that they will utilize to solve challenges. No prior knowledge in any of the subjects or technologies is expected or required. Teams will be able to “buy” hints to help solve challenges during the competition. The team that captures the most countries/scores the most points wins the competition.

Contest Note: students must be capable of saving their submissions on a USB flash drive from their personal computers.



Team Composition

Individuals or teams of 2 students (preferred and encouraged) can register for this competition.

Skills

The problem statement will include (but not limited to) topics from the following:

No prior knowledge or experience in Cybersecurity is required or expected. However, prior experience with the challenge topics listed in this Contest Overview section will be beneficial.

Scoring

Participants will earn points as they solve challenges and conquer countries within an interactive, timed CTF system. Teams that conquer countries first earn bonus points. Hints can be purchased using earned points to help solve more complex challenges.

Schedule

See contest schedule for contest time and place. The time will include contest overview, contest work and turn in.

Check in will begin 20 minutes before the contest begins.

Resources

Each student can bring their laptop. No outside resources are allowed, unless allowed as described in the problem statement.

Technical requirements

Each computer must have a Windows OS, Internet access and a working Web Browser, preferably Firefox or Chrome. Other suggested requirements include:

- Kali Linux OS

- Wireshark

- An EXIf editor

- Python Editor or Notepad++