

Missouri High School Cybersecurity Challenge 2021-2022

The Missouri High School Cybersecurity Challenge is a multi-round competition that tests students' skills in networking, programming and operating system security.

Up to 450 students will compete in Round 1. The top 10 teams will compete in Round 2 at the MOREnet Tech Summit in Columbia, MO on February 22.

Register by January 11

Teams consist of three high school students and one adult school sponsor

Districts can have multiple teams



Missouri High School Cybersecurity Challenge

There is a growing concern over the lack of technically trained individuals in the cybersecurity field to fill an ever-growing gap of supply and demand.

Participants should have a knowledge base and some familiarity (in theory) with one to two of the concepts below. Beginners will practice the techniques associated with the theory and advanced players will demonstrate the knowledge, skill or ability to perform them in this cyber exercise challenge.

- Linux command line knowledge
- Windows and Linux service exploitation
- Port scanning, networking scanning, vulnerability scanning
- SQL injection
- PHP code exploitation
- PII discovery
- Privilege escalation
- Brute force password attacks
- Password hash cracking
- Forensics and reverse engineering
- Reconnaissance or Open Source Intelligence (OSINT) gathering
- Understanding of basic network functions, standards, and protocol
- Familiarity with a Scripting language with a focus on Python and PowerShell
- Some knowledge of common Logical Security Controls

The Challenge will culminate during the MOREnet Tech Summit with the students accessing the US Cyber Range, followed by an awards ceremony.

Important Dates

- **October 1**– Registration opens at www.more.net/trainingschedule
- **January 11** – Registration closes
- **Jan 18-20** – Preliminary Round - online
- **January 21** – Finalist Announced
- **February 1** – Top 10 teams get access to US Cyber Range
- **February 22** - Finals in Columbia

Notes

Participation is free for members

Thanks to a partnership with DESE, the \$185 fee for Missouri K-12 schools that are not a member of MOREnet has been waived

Teams consist of three high school students and one adult school sponsor

Districts can have multiple teams

Adult sponsor does not need to know anything about cybersecurity, it is a student exercise

Teams advancing to Round Two will be responsible for all travel expenses

Sponsor must travel with students

For more information, or to make sure your school is included in updates, please email Andy King at kingak@more.net or Kathy Bellew at bellewk@more.net.