Developing and Hosting Your Own Cybersecurity Competition

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Planning a Cybersecurity Competition

- What skills are you hoping students master?
- What lab resources do you have available? (Physical or virtual?)
- Make sure the rules of engagement are clear
- Can be integrated into a class
- Have some interesting prizes!
Resources and Strategies to Learn Cybersecurity and Ethical Hacking

- Focus on industry certifications
  - Certified Ethical Hacker (CEH)
  - CompTIA PenTest +
  - CompTIA Security +

- Content providers
  - Cisco Networking Academy
  - CompTIA Academy
  - Network Development Group (NDG)
  - Practice Labs
  - Develop your own!
How to Create a Lab Environment for a Cybersecurity Competition

- Recommendation to use virtualization
- Build your vulnerable Operating System – preference on using Windows 10
  - Check vulnerability databases: [https://nvd.nist.gov/](https://nvd.nist.gov/)
- Use quality penetration testing tools such as [Kali Linux](https://kali.org/)
- Make sure and test thoroughly!
Demo Time!