Creating a standard for cybersecurity training content exchange

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The status quo

• Cybersecurity education and training are becoming more and more critical nowadays

• Many platforms exist to support such activities, e.g., via training content management and cyber range creation

• These platforms may have different architectures and implementation approaches, but serve the same purpose

However, there is no standard to represent the training content and environment → sharing and exchanging content are not possible
We need a standard!

• Such standard formats already exist and are popular in other fields

  • E-learning → SCORM (Shareable Content Object Reference Model) collection of standards and specifications

  • Music → MusicXML standard open format for exchanging digital sheet music

Let’s create an standard open format for cybersecurity training content exchange!
How do we do it?

1. Give a lightning talk
2. Get the discussion started
3. Gather momentum
4. Work together
Ideas to get us started

• Organizational framework
  • Working group? (like IETF WGs?!)  
• Starting point
  • Existing formats, such as the YAML-based one used in our training framework, CyTrONE, released on GitHub since 2017
  • Any suggestions?! 
• Create (and maintain) a list of cyber range projects

Thanks for listening, I am looking forward to your valuable feedback!