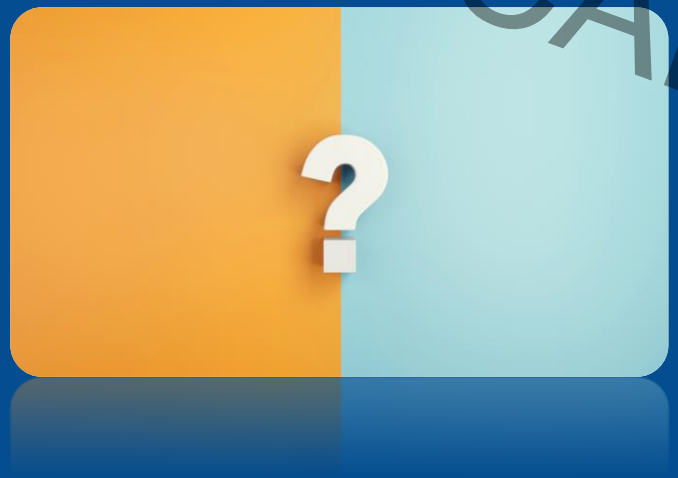
2024 CAE Community Symposium

Cybersecurity on the Move

Pop-Up CTFs Elevating Awareness, Skills, and Career Paths

Presented by Nicole Dyess, Associate Professor, Eastern Florida State College



Problems to Overcome

- Eastern Florida State College – Brevard County “Space Coast Florida”
- Pandemic brought challenges to outreach
- Elementary, middle and high schools unable to tour campuses
  - Staffing issues
  - Busing
  - Student willingness
- Capture the flag and student events
  - Computer equipment hauled around by personal faculty and student vehicles
- USF Cyber Pathways Grant

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How do we revolutionize cybersecurity literacy?

How do we raise community awareness?

How do we inspire youth to join the cyber workforce?

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Conceptualization of a “Pop-Up” CTF

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- Pop-Up Concepts (Stores, treasure hunts, bars)
- Transform the pop-up concept to capture the flag
  - Create a fair like atmosphere
  - Booths to encourage engagement
  - Multiple modalities
  - Wide range of age groups

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CAE IN CYBERSECURITY COMMUNITY

MENTOR

INSPIRE

EFSC Cyber Titans

POWER SKILLS

01 Cyber Defense Internships, Community Presentations, Design CTFs

02 Cyber Titans mentor BPS students by supporting CTF events

03 Cyber Titans encourage development of cybersecurity skills through Discord communities

04 Cyber Titans enhance their power skills through mentoring, presenting, and designing

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The “Cyber Van” Concept to Reality

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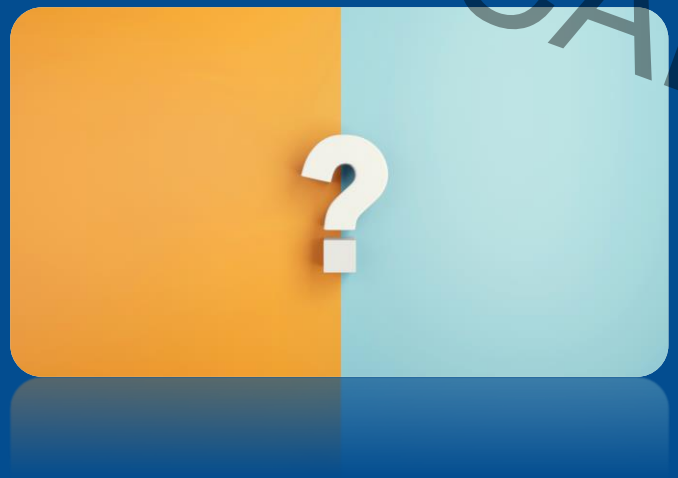
The “Cyber Van” Reality



Challenges

- Why a van?????
  - Administration on board?
- Educating the entire organization of its learning objective and purpose
  - Accounting, Grant team, Faculty & Staff
  - Support after grant fulfillment

A "Pop-Up CTF" is a capture the flag event where cybersecurity, forensics and security awareness challenges are presented in a fair atmosphere.

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Fair Atmosphere

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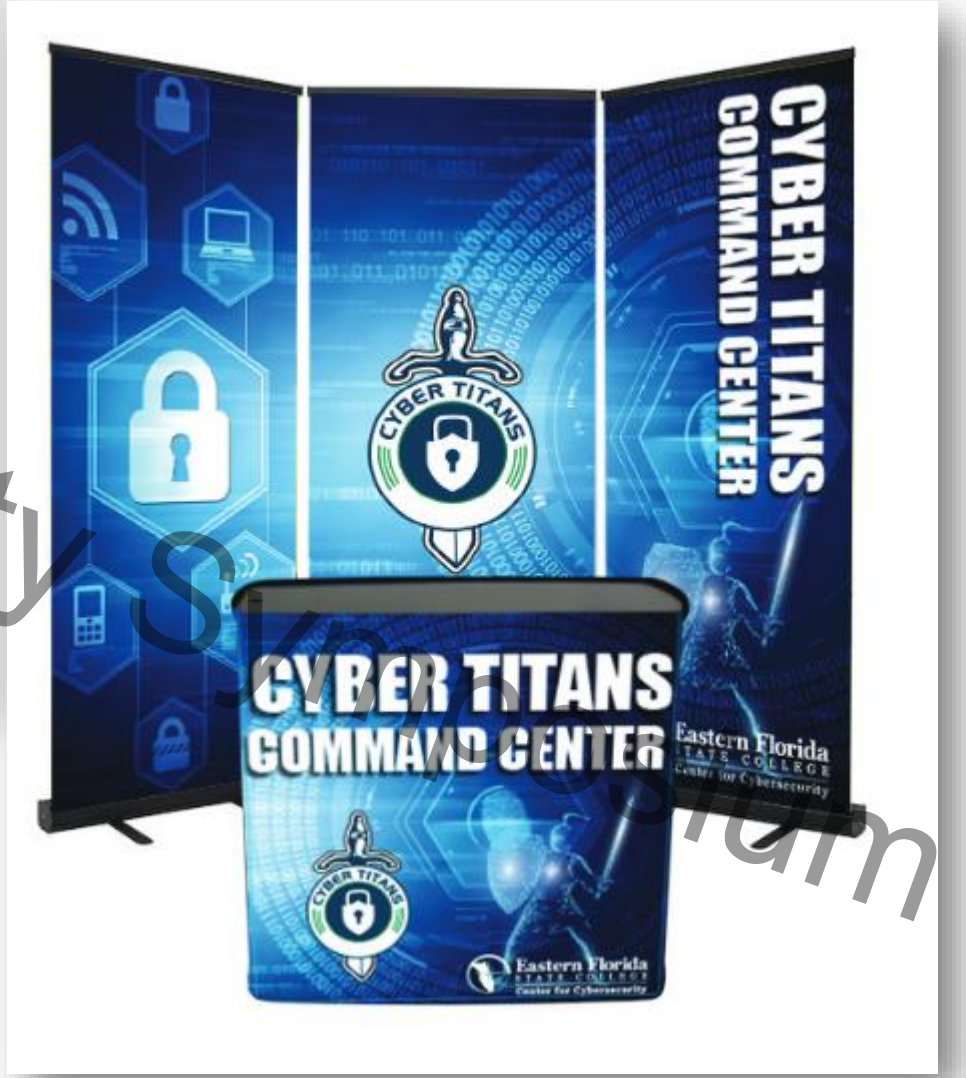
Fair Atmosphere



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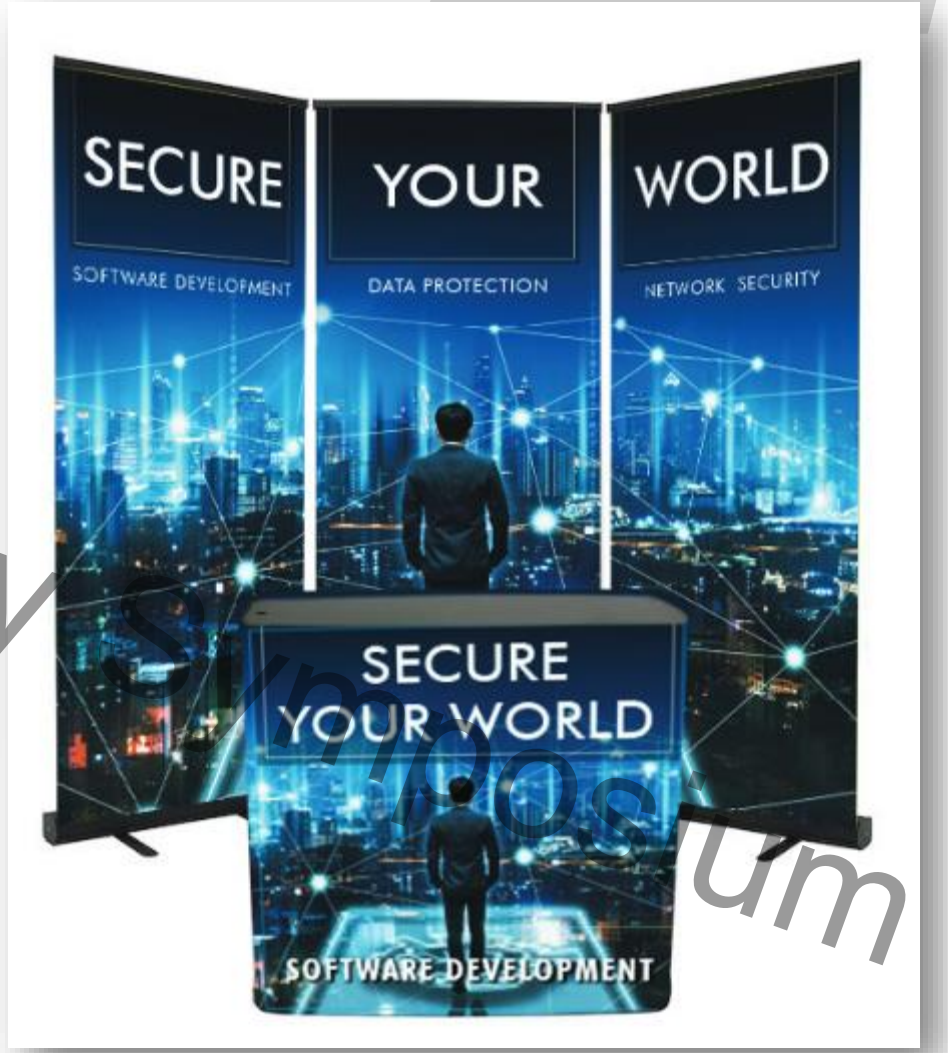
Fair Atmosphere



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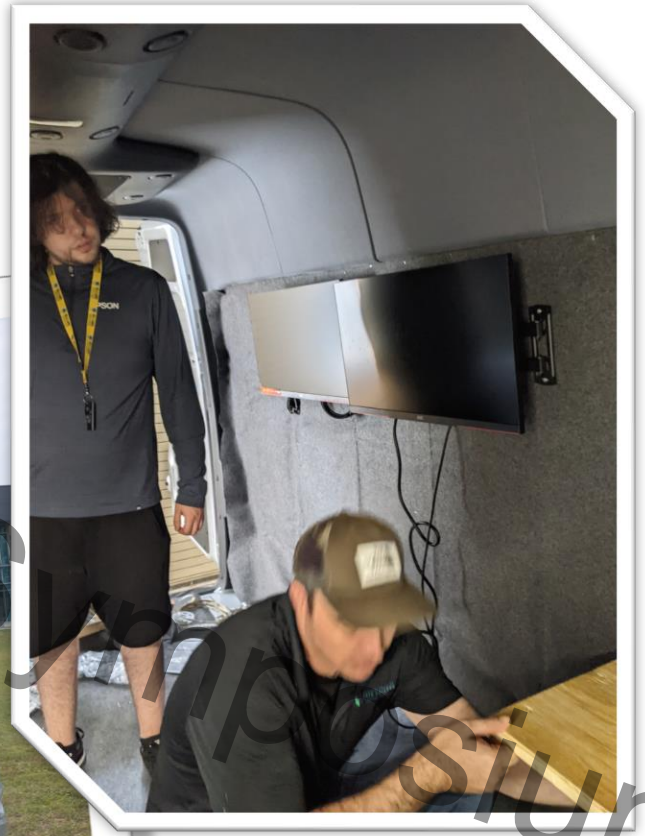
Student Built
Designed by faculty and students



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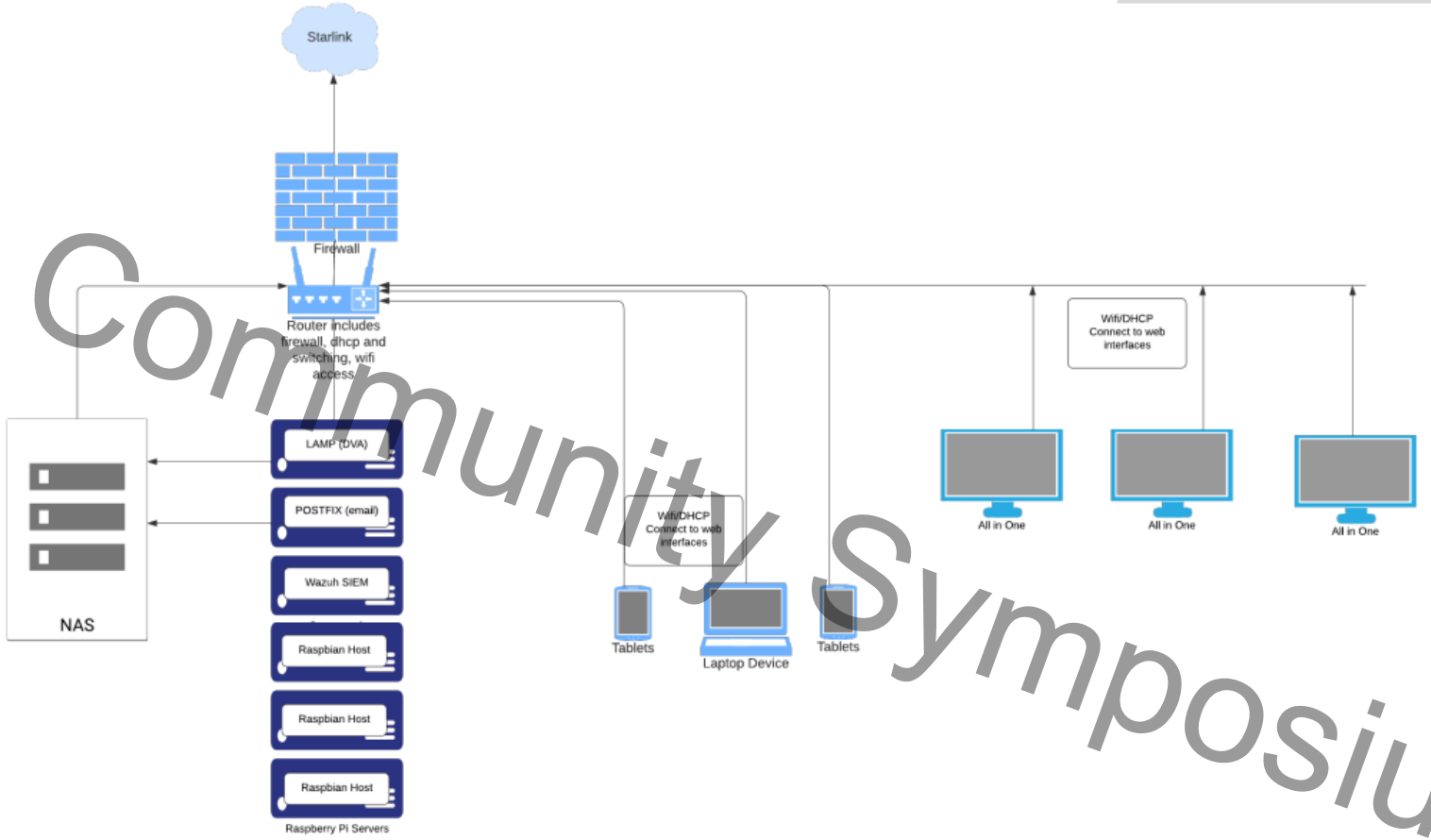
Small scale enterprise network with SIEM and Forensics tools



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Small scale enterprise network with SIEM and Forensics tools

Future Plans

- Learning Outcomes with learning plans and hands on labs
  - NICE Framework
  - Resource sharing
  - Hands on labs for each booth utilizing raspberry pis, tablets, IoT
- Summer camps and end of school year trips
- Community outreach events
- Public library, senior outreach, small businesses

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Images

https://www.flickr.com/photos/easternflorida/

https://easternflorida.edu/ccdf/

Questions?

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