



# United States Air Force Academy - CyberSecurity

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# Overview

- ▶ Mission at the Academy
- ▶ CyberSecurity Role at USAFA
- ▶ Auditing and Compliance (CyberSecurity Perspective)
- ▶ Innovation & CyberSecurity Challenges
- ▶ Where Industry & Government can Partner

# Mission of the Academy

The mission of the US Air Force Academy:

“Educate, train, and inspire men and women to become officers of character, motivated to lead the USAF in service to our Nation.”

# CyberSecurity Role at USAF Academy

- ▶ As the CISO for the USAF Academy, we have several responsibilities:
  - ▶ Protect our networks
  - ▶ Balance risk to the network, while fostering innovation and mission
  - ▶ Conducting risk assessments
  - ▶ Run vulnerability scans
  - ▶ Give guidance on properly security configuring systems
  - ▶ Give recommendations to leadership on risks to our networks

# Auditing and Compliance (CyberSecurity Perspective)

- ▶ Tools used for auditing to ensure compliance and risk mitigation are the following:
  - ▶ ACAS Tool (Nessus scanner) – used to run network and OS vulnerability scans
  - ▶ CIS-CAT Tool (automated STIG benchmark tool for unique operating systems)
  - ▶ DISA STIGs (manual) (manual review of security configurations against the system)
  - ▶ SCAP Tool (automated STIG benchmark tool for operating systems)

# CyberSecurity Challenges

- ▶ Continual User education
- ▶ Insider threat
- ▶ Balancing “Academic Freedom” with Government Regulation
- ▶ “BYOD” in a Government Environment

# Innovation & CyberSecurity Challenges

- ▶ Balance Innovation with CyberSecurity Risk:
  - ▶ What is the acceptable risk when adding innovative technology to a network?
  - ▶ Identify what threats to the network that inhibit innovation
  - ▶ Implement proactive measures to allow innovation
  - ▶ Consistent monitoring is KEY

# Industry & Government Partnerships

- ▶ There are numerous tools that Industry has developed that the government should look at leveraging:
  - ▶ More Supported Open Source and Commercial products
  - ▶ Vetted Cloud Services
- ▶ Security Researchers are an amazing source of information that need to be utilized.





**QUESTIONS?**