Exceptional service in the national interest

Sandia National Laboratories

TracerFIRE

Forensic Incident Response Simulation University Student Version

The university version of TracerFIRE is a two-day scenario driven experience that can give your students staff and faculty knowledge and experience that they would not normally get exposure to.

Students investigate an advanced persistent threat (APT) style adversary throughout the simulation

- Who is the adversary?
- How did they get in?
- What did they want and did they acquire it?
- How to prevent recurring incidents?

The exercise gives students insight into the following:

- How to recognize adversarial tactics within the context of the kill chain
  - Reconnaissance
  - Attack vector
  - Exploitation
  - Exfiltration
- Outcomes
  - Deep dive into cyber topics
  - Learn cyber and forensic Tools
  - Experience the incident response workflow

Testimonial

Professor Taurtiz has hosted several TracerFIRE events at MS&T in the past. We asked him to write a testimonial about his experiences with the event. We also asked him to provide a planning checklist which in on the back page.

"Hosting Sandia's TracerFIRE at Missouri University of Science Technology is a uniquely valuable, experiential learning, cyber security event for both the participating students and the hosting faculty. The students get a challenging hands-on workout in the form of live digital forensics exercises followed by an exciting team based competition. Student outcomes include substantial increases in real-world knowledge of cyber security, improved marketability, and excitement about joining the cyber security work force. As an added bonus, top performing students substantially increase their chance of being accepted for a RECOIL internship at Sandia. Hosting these events provides not only a great learning tool for faculty, but also allows them to network with the presenting Sandians and gain a better understanding of Sandia's cyber mission in protecting national security, which help building recruiting pipelines to Sandia and potentially may lead to establishing research collaborations." – Professor Daniel Tauritz, Missouri S&T