



# CAE Forum



**Wednesday, January 5, 2022**

**Armitage+Metasploit for Penetration Testing from Information Collecting to Post Exploitation (1:00 - 1:50 pm EST)**

**The Role of Centers of Academic Excellence in Democratizing Cyber Security (2:00 – 2:50 pm EST)**

Mark your calendar and come join us for CAE Forum! CAE Forum is a live, real-time, online, academic forum where members of the CAE community give non-technical presentations on topics of value to the CAE community. CAE Forum is about sharing your ideas, knowledge, and expertise to empower and strengthen our community. It's that simple. CAE Forum presentations are normally held on the third Wednesday of each month during the Fall and Spring semesters.

## **PRESENTATION #1**

**Title/Topic:** Armitage+Metasploit for Penetration Testing from Information Collecting to Post Exploitation

**Time:** 1:00 - 1:50 pm EST

**Location:** <https://caecommunity.zoom.us/my/caeforum>

*Just log in as "Guest" and enter your name. No password required.*

**Audience:** Students, Professors, Govt.

**Presenter(s):** Dr. Xinwen Fu, University of Massachusetts, Lowell

**Description:** It is often hard to find an intuitive live demo and explain the whole cycle of cyberattacks/penetration testing. To this end, this talk discusses the use of Armitage, which is a GUI interface for the popular hacking/penetration testing tool Metasploit. Just a few clicks and commands are needed to perform information collecting (e.g. port scanning), exploitation and post exploitation (e.g., hashdump and password cracking). Armitage and Metasploit can be installed on a Kali Linux virtual machine.

## **PRESENTATION #2**

**Title/Topic:** The Role of Centers of Academic Excellence in Democratizing Cyber Security

**Time:** 2:00 - 2:50 pm EST

**Location:** <https://caecommunity.zoom.us/my/caeforum>

*Just log in as "Guest" and enter your name. No password required.*

**Audience:** Students, Professors, Govt.

**Presenter(s):** Michael Losavio, Sharon Kerrick, Adel Elmaghraby, Jeffrey Sun, Im Ghiyoung, University of Louisville

**Description:**

The expansion of pervasive and ubiquitous computing, especially with the Internet of Things and the Smart City, also expands the novel means of criminality and its investigation. We suggest that novel means of investigation and discovery may not be sufficient to limit injuries to citizens. Criminal justice and criminology models for cybersecurity offer significant benefits for public cybersecurity, even as they have been largely overlooked. Discussion with the conference participants may inform broader efforts for cybersecurity, including criminal justice integration. Integration of cybersecurity and forensic practices into traditional law enforcement and public safety will be needed to provide public safety and security in our hybrid technical world. We must, in essence, "Democratize" Cyber Security. We discuss means to achieve this and results from efforts to promote this integration.

A recording of the live presentation will be available following the pre of the presentation at:

<https://www.caecommunity.org/resources/cae-forum-resources>

**Contact us at:** [caeforum@caecommunity.org](mailto:caeforum@caecommunity.org)