CAE Lecture Series

22 November 2024

Dr. George Dimitoglou, Hood College, The pedagogical value behind setting up a Virtualized Security Operations Center

(2pm EST)

Brad Reeves, North Carolina State University, Insights from 5 Years of Robocall Research
(3pm EST)

Mark your calendars and come join your colleagues in the CAE community for the CAE Lecture Series. CAE Lecture Series are free and conducted live in real-time over MS Teams so no travel is required. NSA's CAE PMO office hosts the presentations via MS Teams which employs slides, VOIP, and chat for live interaction. Just click on the link and enjoy the presentation(s).

Abstract 2pm EST:

Practical experience is an essential component of cybersecurity education. This talk examines the pedagogical benefits of setting up an open source tools Virtualized Security Operations Center (vSOC) and integrating it into a graduate cybersecurity curriculum. A vSOC allows students to immerse in simulated security environments, allowing them to develop critical skills in threat detection, incident response, and risk assessment. Virtualization enables cost-effective, scalable, and remote access, making the vSOC accessible to a broad student population.

Abstract 3pm EST:

Endless waves of deceitful robocalls have made subscribers virtually unable to use telephones. Despite the magnitude of the problem, even the most basic of questions about robocalls remained answered only by anecdotes. In this talk, we will discuss how we shed light on this problem through novel analysis techniques applied to millions of calls collected from a robocall honeypot. First, we will show how call audio can be used to identify calling campaigns, which provide a lens to study robocall calling patterns and targeting. From there, we will describe the development of a natural language processing system called SnorCall that allows us to characterize call content semantics, allowing us to see robocaller fraud tactics evolve over time. Finally, we will discuss how the work we have done can be used by providers, regulators, and other stakeholders to better understand and combat robocalls.

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