GSAW 2013 Tutorial H:

Cloud Technology Security

Length: Half day

Overview:

The goal of this tutorial is to introduce cloud technology. We will raise awareness and understanding of the security challenges applicable to your cloud architecture, and review mitigation techniques along with relevant policies, controls, and guidance.

Instructors: Richard Lee, Elizabeth Scruggs, Meredith Hennan, The Aerospace Corporation

Biographies:

Richard Lee is a Senior Engineering Specialist in the Cyber Security Subdivision of The Aerospace Corporation.

Elizabeth Scruggs is an Engineering Specialist in the Cyber Engineering Department of The Aerospace Corporation.

Meredith Hennan is a Member of the Technical Staff in the Cyber Engineering Department of The Aerospace Corporation.

What Participants Should Expect to Learn:

By attending this tutorial, you will have a much needed appreciation of the attack surface area of your cloud architecture by learning about the plethora of vulnerabilities and exploits that threaten your cloud architecture component by component.

This tutorial will take you on a step-by-step walkthrough from the bottom up of what you 'should' know about your cloud architecture, and what steps you can take to mitigate the current vulnerabilities to your system, the applicable cloud policy drivers and guidance (ICD 503, FIPS, NIST, CNSS, ENISA), things to look for, and the potential future impacts.

The result is that you should have a firm understanding of your cloud security requirements from your hardware through your applications, and how the cloud service models have different exposures to your enterprise operating environment.

This tutorial will empower you with knowing 'What are the right questions to ask?' to frame your cloud security architecture or requirements, and what policies are applicable to your cloud deployment.

Who Should Attend:

As a new tutorial in a rapidly developing technical area, we are not assuming any specific knowledge of cloud computing. We will present some basic material to hopefully orient the attendees, and then proceed to more detailed material. Based on the outcome, we will be able to better gauge how much interest there is in this topic, and what level(s) of material are needed.