

Creating Isolation in the Cloud

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Abstract

IARPA is attempting to expand the Intelligence community's options for classified processing in the future. To do this we need to enable and encourage large U.S. commercial clouds to accommodate IC's classified computing needs with their future shared public infrastructures. To be acceptable however, these public infrastructures would have to offer services that closely approximate the isolation and control current IC isolated networks enjoy, while providing the elasticity and cost savings of the largest commercial cloud IaaS offerings. What could be easier?

Speaker Bio



Dr. Nabil A. Schear is a senior staff member in the Secure Resilient Systems and Technology Group at MIT Lincoln Laboratory. Dr. Schear's research interests include cloud security, intrusion tolerance and prevention, traffic analysis, data tracking and isolation, systems security, and anonymous/covert communications systems.

Prior to joining Lincoln Laboratory in 2011, he was a member of the technical staff at Los Alamos National Laboratory from 2004 to 2011 and an undergraduate cooperative student there from 2001 to 2004. At Los Alamos, he performed research and development in vulnerability analysis, internet privacy, high-speed network traffic monitoring, sensor networking, and secure sanitization.