Routing Security Workshop: TechEx 2018

PRESENTED BY: Anita Nikolich, Internet2 and IIT; Paul Howell, Internet2; Grover Browning, Internet2 and IU
Agenda

- Brief Intro’s
- Kevin Meynell, Internet Society
  - Overview of MANRS
- Jeff Bartig, Internet2
  - The Importance of IRR Updates and NANOG report out
- Andrew Gallo, George Washington University and CAAREN
  - RPKI Implementation and uRPF, a Campus Perspective
- Scott Colburn, UCAR and Front Range Gigapop
  - Anti-Spoofing
- David Wishnick, University of Pennsylvania Law School’s Center for Technology, Innovation, and Competition
  - Report on Legal Obstacles to RPKI in R&E
- Mark Brochu, Internet2
  - FlowSpec Tutorial

- Open Q&A and discussion on what routing security means to you for Internet2’s NGI
ARTEMIS Pilot Participation by Internet2 (and GPN and Merit)

ARTEMIS - Neutralizing BGP Hijacking in a Minute

UC San Diego (CAIDA) piloting with Internet2, Great Plains Network and Merit

Sept – Dec: implementation on the 3 networks. Inventory of announced address blocks, originating Autonomous Systems, BGP peering sessions (and therefore neighboring ASes), etc.

Jan onward:

Configure ARTEMIS prototype to alert for suspicious events and assess a confidence level. Continue tuning the sensitivity of the detection algorithms.

Analyze the technical, administrative, and management aspects for operators that prefer to postpone experimenting with automated measures.

Jan – Sept 2019:

Work closely with technical staff to teach them how to use the prototype and to collect feedback that will influence new code iterations. Also discuss functionalities for visual interfaces and usability requirements and evaluate the potential integration with existing platforms used by the operator.