Advanced BGP & Routing Security

Workshop Goals

This five-day Advanced BGP and Routing Security Workshop is a technical workshop, made up of lecture and hands-on lab work to teach BGP skills and Best Practices required for the configuration and operation of large scale networks that make up the Internet.

Target audience

Technical staff who are now building or operating a wide area service provider network with international and/or multi-provider connectivity, or considering participation at an Internet Exchange point, or considering deploying IPv6 across their infrastructure and to their end users.

Prerequisites

It is assumed that the workshop participants are proficient with a router command line interface, have a good understanding of OSPF or IS-IS, as well as experience with using BGP in an operational network.

This workshop is not an introduction. Participants are expected to have already successfully completed previous APNIC or APRICOT IPv4/IPv6 Routing Workshops or have demonstrable equivalent experience.

The lab exercises use Cisco IOS configuration syntax.

Participants are required to bring laptops with working wireless.

Class size

The workshop can accommodate up to 28 participants.

Workshop topics

- IS-IS design and best practices for Service Provider networks
- BGP attributes and policy
- BGP scalability (including Route Reflectors)
- Aggregation
- BGP multihoming techniques (redundancy and load balancing)

- BGP best practices
- BGP Communities
- IPv6 Protocol and Standards
- IPv6 extensions for routing protocols
- BGP Security, RPKI, and MANRS
- RPKI Deployathon

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