



# 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

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

- BGP Security, RPKI, and MANRS
- ISP best practices
- Peering best practices
- IXP design and best practices
- IPv6 Protocol and Standards
- IPv6 extensions for routing protocols
- IPv6 addressing and address planning

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Last update: **2019/08/05 14:25**

