

ISP/IXP Networking Workshop Labs

8 Day Course

Locations: Mex, D.F.

Date:

Who Needs to Attend

This is a technical workshop, made up of lectures and hands-on lab work. Open to technical staff who are now or soon will be building or operating a wide area TCP/IP base Internet Service Provider (ISP) network or Internet eXchange Point (IXP), likely with international and/or multi-provider connectivity.

Audience Prerequisites

Cisco IOS Fundamentals; some use of network design, preferably TCP/IP-based.

CCNA (recommended but not required).

BSCI (recommended but not required).



This course is designed so that students can practice with different configurations and protocols used in the service providers (ISP / IXP), in order to develop their skills in implementing complex configurations for the reestablishment of Service and Troubleshooting taking into account features such as optimization, scalability and best practices of the network. This course has a 100% practical approach.

Table of Labs

Module 1 Basic Topology, OSPF and iBGP

Module 2 More iBGP, and Basic eBGP Configuration

Module 3 BGP route filtering and advanced features

Module 4 Multihoming Strategies Lab

Module 5 Advanced OSPF

Module 6 Essential Router Configuration

Module 7 BGP Route Reflector Lab

Module 8 Policy Based Routing

Module 9 Internet Exchange Points

Module 10 Introduction to Voice over IP

Module 11 Advanced Router Configuration with OSPF, iBGP and eBGP

Module 12 Multihoming to the Same ISP

Module 13 Multihoming to Different ISPs

Module 14 Loadsharing using Communities

Module 15 Multihoming to the Same ISP using RFC1998

Module 16 Advanced Community Usage (RFC1998++)

Module 16 Transit Services

Module 18 Internet Exchange Points

Module 19 Overseas Collocation

Module 20 IPv6 OSPF and iBGP

Module 21 IPv6 iBGP and Basic eBGP

Module 22 IPv6 Tunnels