

Peering demystified

A 1 day training course



Description

A concise overview course covering The Internet and peering. Particular emphasis is placed on the structure of the Internet, how IXs benefit the Internet, IX architectures, peering and the technical buzzwords behind the IX services.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Describe the structure of the Internet.
- ✓ Explain the role of RIPE, ARIN and IXs in the Internet.
- ✓ Explain how IXs connect ISPs and the benefits of using IXs.
- ✓ Describe peering from a technical perspective including the role of BGP and AS's.



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning.



Details

Who will benefit?

Non technical staff working for Internet companies

Prerequisites

None.

Duration: 1 day

Customer rating: ★★★★★

Generic training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small class sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise your course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

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Course content

IP and routers

IP as glue. What is a router? How routers join networks, benefits and disadvantages of routers, default gateways, routing tables, routing protocols.

Addressing

IP address format, rules of IP addressing, where to get IP addresses. Subnetting and groups of IP addresses.

The Internet

What is the Internet? The big picture, IP basics, registering IP addresses, DNS and registering domain names, whois, The IAB, IANA, ICANN, RIPE and other Internet organisations.

ISPs

Top ISPs, Tier 1, Tier 2 and Tier 3 ISPs, backbone providers, circuit providers, content providers, virtual ISPs, the internal network of ISPs. Customer connections to ISPs (DSL, Leased lines, MPLS...)

ISP to ISP connections: Peering points

Public peering versus private peering, NAPs, Internet Exchanges, Metropolitan Area Exchanges, LINX, other major peering points, the geography of the Internet. BGP and ASNs. How to peer. IRRs.

IX architecture

Ethernet switching.

IX services

IPv4, IPv6 ports. Multicast. Traffic stats. Looking glass. DNS root servers.

What our customers say

"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"

O. B. Network Rail

"The best technical course I've been on!"

L. W. Fujitsu Telecoms Europe

"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."

A.R. Unipart

"Course content is interesting. Relevant to current systems and presented well."

S.S-T. Arqiva

