

Peering at LINX

A 1 day training course



Description

A one or two day induction course covering the technical procedures of LINX along with correct interaction with LINX and LINX members. This course focuses on the implementation of the technologies within the LINX network. For those already competent in BGP the one day version of this course is sufficient.



Key outcomes

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

- ✓ Explain the role of LINX in the Internet.
- ✓ Correctly connect to LINX.
- ✓ Recognise the correct procedures for peering at LINX.
- ✓ Use the current Best Current Practices.



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?

Technical staff of new LINX members. Technical staff of companies preparing to join LINX. Non technical staff may also benefit from this course.

Prerequisites

Introduction to data communications & networking.

Duration: 1-2 day (1 day version available for technical staff with BGP knowledge)

Customer rating

NEW COURSE

| Generic training | Small class sizes | Hands On training | Our courseware | Customise your course |
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| Generic training complements product specific courses covering the complete picture of all relevant devices including the protocols "on the wire". | We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor. | The majority of our courses use hands on sessions to reinforce the theory. | We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text. | Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way. |
| <i>"Friendly environment with expert teaching that teaches the why before the how."</i> G.C. Fasthosts | <i>"Excellent course. The small class size was a great benefit..."</i> M.B. IBM | <i>"Not many courses have practice added to it. Normally just the theoretical stuff is covered."</i> J.W. Vodafone | <i>"Comprehensive materials that made the course easy to follow and will be used as a reference point."</i> V.B. Rockwell Collins | <i>"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."</i> S.R. Qinetiq |

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Course content

Introduction and review

Networks, The Internet, IP, routers, Autonomous systems, the structure of the Internet, the role of Internet Exchanges. BGP and peering. LINX, EuroIX, RIPE. What you get when you join LINX. LINX products: Connexions, Virtual PoPs, Colocation resales, LINX from anywhere.

LINX infrastructure

The original architecture, The growth of LINX, the current topology. LINX London locations. Dual LAN topology. LON1, LON2. Use of MPLS to connect London sites. Regional peering: LINX NoVa, LINX Manchester, LINX Wales, LINX Scotland, ManxIX, JEDIX.

Connecting with LINX

Locations. 1/10/100/400G. Interface specifications. Link aggregation. The racks and space provided, access to the racks, connecting WAN circuits into LINX. The connection form, How to link your ISP with LINX, switch assignments, limits on traffic, average measured traffic, getting statistics from LINX, Using looking glass. Allowed traffic. Port security.

Configuration hints

LINX IP details, IPv4, IPv6, PTR records, Cisco base configuration, Juniper base configuration.

Peering with other LINX members

Preparing for peering, the peering template, setting up the peering, RFC 2142, the RIPE database, contacts, peeringdb.net, solving downed BGP sessions, escalation procedures.

Peering configuration hints

Cisco BGP configuration, Juniper BGP configuration.

LINX additional services

Private interconnect, LINX time service. NTP, Strata.

The LINX route server

Bi lateral peering, Multi lateral peering. How the LINX route server is configured. Use of communities on the route server, template for peering with the route server.

Summary

Getting further information, the LINX website, the LINX mailing lists.

