

Hardening Cisco devices

A 2 day **Hands on** training course



Description

A hands on course focusing on how to lock down Cisco IOS routers and switches.



Key outcomes

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

- ✓ Harden Cisco devices.



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. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Technical network staff.
Technical security staff.

Prerequisites

TCP/IP foundation for engineers.

Duration: 2 days

Overall 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

Introduction

Router security, Switch security, Cisco IOS, IOS versions, Cisco advisories, the management plane, control plane, data plane.

Hands on: Checking IOS versions and advisories.

Access control

Infrastructure ACLs, Transit ACLs.

Hands on: Restricting access to the device, Filtering data traffic.

Management plane: Securing operations

Passwords, privilege levels, AAA, TACACS+, RADIUS.

Hands on: Password management.

Management plane: Other general hardening

Logging best practices, secure protocols, encrypting management sessions, configuration management.

Hands on: Hardening the management plane.

Control plane

Disabling reception and transmission of certain messages, Limiting CPU impact of control plane traffic, securing routing protocols.

Hands on: Hardening the control plane.

Data plane

Transit ACLs, disabling unused services, disabling unnecessary protocols, anti spoofing, limiting CPU impact of data plane traffic, identifying and tracing traffic, Netflow, VLANs, port security.

Hands on: hardening the data plane.

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

