

Total RADIUS for engineers

A 2 day **Hands on** training course



Description

A fast paced hands on introduction to RADIUS.

Moves from installation and configuration through to packet analysis and accounting. Practical exercises are spread throughout the course to maintain student interest.



Key outcomes

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

- ✓ Configure PPP and PAP/CHAP.
- ✓ Install and configure RADIUS servers.
- ✓ Describe how RADIUS works.
- ✓ Setup RADIUS accounting.
- ✓ Analyse RADIUS packets
- ✓ Troubleshoot RADIUS installations



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?

Network Administrators. Support personnel
Anyone who will be working with RADIUS.

Prerequisites

Knowledge of the TCP/IP protocols would be advantageous.

Duration: 2 days

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

What is RADIUS?

AAA services, Authentication, Authorisation, Accounting, local AAA services, remote AAA services, What is RADIUS? RADIUS as a protocol, RADIUS as an architecture, RADIUS as a standard.

Installing RADIUS

RADIUS platforms, RADIUS servers, client server communications, services, daemons. Hands on: Installing RADIUS and testing with NTRadPing.

Server configuration

Configuring clients on the server, shared secrets, usernames and passwords. IP address pools. Hands on: Configuring a server and testing with NTRadPing.

Client configuration

Example clients, client configuration steps, enabling RADIUS, pointing clients to the server, shared secrets, example Cisco authentication, example Cisco authorization. Hands on: Configuring clients for RADIUS.

How RADIUS works

RADIUS architecture, RADIUS and authentication, PPP, PAP, CHAP, RADIUS SUCCESS, RADIUS FAILURE, the RADIUS protocol stack, the RADIUS protocol, the RADIUS header, RADIUS codes, RADIUS attributes, ACCESS-REQUEST example, ACCESS-ACCECPT example, CHAP example, proprietary attributes, using unassigned type codes, RADIUS attribute 26, Cisco specific attributes. Hands on: Analysing RADIUS packets, configuring PPP CHAP to work with RADIUS.

RADIUS accounting

Simplified operation, Accounting codes, Accounting attributes, client and server configuration for accounting. Hands on: Configuring RADIUS accounting.

RADIUS architectures

Traditional architecture, multiple RADIUS servers for resilience, Proxy RADIUS servers, Realms, RADIUS in VPNs, RADIUS with 802.1x. Hands on: Using multiple RADIUS servers, Proxies.

Troubleshooting RADIUS

General problem solving, basic tools, RADIUS troubleshooting, Common configuration errors, log files, RADIUS design and performance. Hands on: Fixing RADIUS problems.

