

Advanced HP switches for engineers

A 2 day **Hands on** training course



Description

A hands on course covering advanced features of HP switches. The focus of the course is on Layer 3 switching advanced features. Delegates will benefit the most from this course if they can supply us with their own configurations before the course. These configurations can then be used by the trainer in the course.



Key outcomes

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

- ✓ Configure and troubleshoot HP layer 3 switching.
- ✓ Configure and troubleshoot OSPF.
- ✓ Harden HP switches.
- ✓ Explain the majority of their own configurations (if configurations are supplied to us before the course).



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 staff working with HP switches.

Prerequisites

HP switches for engineers.

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

Introduction

VLAN review. Tagged and untagged ports. MSTP, PVST, UDLD, BPDU guard. Hands on: VLANs, diagnostic tools debug, LLDP, remote port mirroring.

L3 switching

What are L3 switches? L3 lite, IPv4 and IPv6, routing protocols, routing tables. IP address on VLAN, no ip address on VLAN, connected interfaces, RIP. Hands on: Routing between VLANs. Configuring and troubleshooting RIP.

VRRP

Default gateways, dead router detection, resilience. Hands on: Configuring and troubleshooting VRRP.

Static routes

Why use static routes? Configuring static routes, default routes.

OSPF

Link state protocols, operation. Router types, LSA types, area 0. Hands on: Configuring and troubleshooting OSPF.

QoS

Layer 2 QoS, 802.1Q, priorities, dscp mapping, rate limiting.

Access lists

Filtering traffic through the switch, controlling access to the switch, enabling and disabling ACLs, standard ACLs, extended ACLs

Security

DHCP snooping, ARP protection, STP guards, switch hardening.

Summary

Walkthrough of delegate configurations.

