

Essential SDN

A 2 day training course



Description

Software Defined Networking (SDN) has become one of the industries most talked technologies. This training course cuts through the hype and looks at the technology, architecture and products available for SDN along with looking at the impact it may have on your network.



Key outcomes

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

- ✓ Explain how SDN works.
- ✓ Describe the architecture of SDN.
- ✓ Explain the relationship between SDN and Open-Flow.
- ✓ Recognise the impact SDN will have on existing networks.



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?

Anyone wishing to know more about SDN.

Prerequisites

None.

Duration: 2 days

Customer rating:

New course

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

What is SDN? What is OpenFlow? SDN benefits. The SDN stack and architecture.

SDN and open source

OpenDaylight, OpenVSwitch, Open Networking Forum, Open Network Operating System. OpenStack Neutron.

SDN architecture

SDN applications, SDN switches, SDN controllers, Network Operating Systems. Control plane, data plane. Control to Data Plane Interface (CDPI), Northbound interfaces. SDN components, control and data plane abstractions.

SDN implications

Separation of control and data plane, NOS running on servers, Emphasis on edge complexity, core simplicity, OpenvSwitch, Incremental migration, importance of software. SDN vs NVF.

Network Operating Systems

Finding the topology, Global view, control program, configuration based on views, graph algorithm.

OpenFlow

Just one part of SDN. Open Networking Foundation, OpenFlow ports, Flow tables, OpenFlow Channels. The OpenFlow protocol, OpenFlow header, OpenFlow operations. OpenFlow versus OpFlex.

