

Software Defined Networks

1-Day Training Course:

This course explains the key ideas behind the jargon and de-mystifies Software Defined Networking

30th November 2017 **Brisbane**

8th December 2017 **Canberra**

6th December 2017 **Sydney**

13th December 2017 **Melbourne**



Key Learning Objectives

- Understand the role of Software Defined Networks.
- Learn the benefits of automating IT infrastructure
- Understand how SDN compliments system virtualisation.
- Gain exposure to various use cases for SDN within the enterprise.
- Understand the risks and rewards of SDN



Damian Jurd

Damian is a professional with over 15 years' experience specialising in Information Security strategy and implementation (ISO and other Open Systems), Penetration testing, vulnerability analysis and risk analysis, Educating and mentoring in Computer Forensics, Cybercrime and Information Warfare.

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ABOUT THE COURSE

Software Defined Networking represents the most significant change to network management in decades. This course offers an introduction to the key principles of SDN and explores a number of use cases where SDN offers increased flexibility and agility for service delivery within the enterprise.

The course requires very little background knowledge as it starts with a gentle introduction to the key networking concepts that are required.

Concepts are conveyed using simple analogies and animations. The aim of the course is to provide participants with a sample of the kinds of problems that can be solved via SDN.

WHO WILL BENEFIT

This course will benefit anyone engaged in the management of enterprise IT systems including IT managers, IT administrators, Systems Administrators, Network Administrators, Security Administrators, Pre-sales Engineers, and Technical consultants.

EXPERT COURSE INSTRUCTOR



Damian Jurd

Damian is a full-time lecturer at Macquarie University, teaching postgraduate students skills in Information Security Management, Cybercrime & Cyberterrorism, and Information Warfare. He is a professional with over 15 years' experience specialising in Information Security strategy and implementation (ISO and other Open Systems), Penetration testing, vulnerability analysis and risk analysis, Educating and mentoring in Computer Forensics, Cybercrime and Information Warfare.

His practical and theoretical topics include:

- Cryptography, cryptanalysis, steganography, including certificate and key management;
- Systems and Network management;
- Security and Network Infrastructure
- Cloud, Virtualisation and Software Defined Networking
- Advanced networking (protocols, designs);
- Hardware and network forensics;
- Physical and logical systems
- Operating systems programming and security programming.

Damian continues to develop courses for and taught postgraduate students for the Department of Computing. He also facilitates internal training programs for various public and private sector organisations across when required.

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1-Day Intensive Course Outline

Networking Primer

- What tasks do various network devices perform.
- Why are there so many network protocols in use.
- How are networks managed.

Cloud Computing

- The role of virtualisation in the cloud
- Orchestration - automating your datacenter.

Software Defined Networks

- What is SDN?
- Network virtualisation.
- Centralisation of control.
- Northbound API's - Network Apps
- Southbound API's
- Control protocols - Openflow, BGP
- Management protocols - OVSDB, OF-Config
- Overlay networks - VxLAN, NVGRE
- Network Function Virtualisation (NFV)

Case studies

- Malware detection
- Denial of Service mitigation
- Network monitoring
- Edge policy enforcement
- Bring Your Own Device (BYOD).
- Service insertion
- Captive portals
- WAN acceleration
- Security as a Service

Risks

- Will my staff have a capability gap?
- Can I get locked into a vendor's ecosystem?
- How will SDN affect my network's security?

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Software Defined Networks

	Location	Course Dates	Super Early Bird price valid until BR 20 Oct 17 SY 27 Oct 17 CA 27 Oct 17 ME 3 Nov 17		Early Bird price valid until BR 10 Nov 17 SY 17 Nov 17 CA 17 Nov 17 ME 24 Nov 17		Standard price valid after BR 10 Nov 17 SY 17 Nov 17 CA 17 Nov 17 ME 24 Nov 17		4+ Dels Discount	
P17GT16BR	Brisbane	30 Nov 17	\$1,495 + \$149.50 GST	\$1,644.50	\$1,695 + \$169.50 GST	\$1,864.50	\$1,795 + \$179.50 GST	\$1,974.50	\$1,195 + \$119.50 GST	\$1,314.50
P17GT16SY	Sydney	6 Dec 17	\$1,495 + \$149.50 GST	\$1,644.50	\$1,695 + \$169.50 GST	\$1,864.50	\$1,795 + \$179.50 GST	\$1,974.50	\$1,195 + \$119.50 GST	\$1,314.50
P17GT16CA	Canberra	8 Dec 17	\$1,495 + \$149.50 GST	\$1,644.50	\$1,695 + \$169.50 GST	\$1,864.50	\$1,795 + \$179.50 GST	\$1,974.50	\$1,195 + \$119.50 GST	\$1,314.50
P17GT16ME	Melbourne	13 Dec 17	\$1,495 + \$149.50 GST	\$1,644.50	\$1,695 + \$169.50 GST	\$1,864.50	\$1,795 + \$179.50 GST	\$1,974.50	\$1,195 + \$119.50 GST	\$1,314.50

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