

TRAINER'S PROFILE



Lawrence E. Hughes

Founder, Chairman and Chief
Technology Officer of InfoWeapons
Corporation

Lawrence E. Hughes is a visionary in the information technology and computer security fields, with a particular interest in secure digital communication and IPv6. An expert, with more than 35 years experience in creating and developing security products, Mr. Hughes has a long history of being a valued consultant in various global security companies.

Mr. Hughes founded InfoWeapons Corporation to create high-quality, simple-to-use, end-user tools as a response to the general lack of secure communication and IPv6 Ready tools currently available. He wrote the initial code of SolidDNS™, the flagship product of InfoWeapons that went on to become the first IPv6 Ready Gold certified DNS appliance now being used by many telcos in the Middle East, Europe, and Asia Pacific.

An IPv6 Forum Gold Certified Engineer, Mr. Hughes put up an IPv6-Ready Product Testing Center in the Philippines, one of a handful in the world accredited to test products for IPv6 certification. A member of the IPv6 Forum Education Committee and IPv6 Gold Certified Trainer, he has spoken at a number of International IPv6 Summit conferences in Beijing (China), Seoul (Korea), Kuala Lumpur and Langkawi Island (Malaysia), Taipei (Taiwan), Potsdam (Germany), Washington D.C. and San Jose, California (U.S.); and Melbourne (Australia).

A prolific author, he has written numerous magazine articles and blogs, and one previous book, *Internet E-mail: Protocols, Standards and Implementation*, released in 1998. In October 2010, he released *The Second Internet: Reinventing Computer Networks with IPv6*, a 306-page book, which is distributed for free under Creative Commons License and is posted on major IPv6-related websites such as APNIC, Hurricane Electric, and SixXS. The home website for this book is www.secondinternet.org. He has also created a website to assist people with deployment of dual stack networks (especially e-mail) at www.v6address.com.

Prior to founding InfoWeapons, Mr. Hughes was co-founder (along with Jay Chaudhry) and initial CTO of CipherTrust in the US. CipherTrust is the maker of the IronMail™ Hardened E-mail Proxy appliance. Before that, he was a Senior Security Consultant at VeriSign where he created and taught their certification courseware internationally. All throughout his career, he has been constantly creating products and courseware in the areas of cryptography, digital signatures, digital envelopes, digital certificates, Public Key Infrastructure (PKI), secure transport protocols and secure e-mail, as well as hardened security appliances to protect digital communication. He is also Chairman and CTO of DualStak Networks Sdn. Bhd., based in Kuala Lumpur, Malaysia.

Mr. Hughes' extensive technical background includes world-class skills in data security, cryptography, PKI, UNIX operating systems, Internet Protocols, IPv6, and software development in C/C++ and various assembly languages. He has a Bachelor of Science degree in pure mathematics, with a minor in physics, from the Florida State University. In addition, since 1973 Mr. Hughes has been a member of Mensa International.



CERTIFIED NETWORK ENGINEER LEVEL 1 (CNE6 SILVER)

The CNE6 courses are intended for network and system engineers who need to understand the new features and operational characteristics of network based on IPv6. The Level 1 (Silver) course introduces participants to the basic concept of IPv6 and how these differ from IPv4, related protocols, and the various transition mechanisms and help add support for IPv6 into existing networks.

Objectives

- Understanding of IPv6 for deployment in Small to Medium Networks
- Required for supporting of Dual Stack IPv6 environment

Course Syllabus (5 days)

Underlying theory and operations necessary for deploying local area networks that support IPv6

Day 1: Introduction

Part 1 – IP Address Architecture and Representation

Day 2: Part 2 – The Internet Protocol and Its Context (TCP/IP)

Part 3 – IP Related Protocols and Mechanisms: ICMPv6, ND & SLAAC

Day 3: Part 4 – IP Configuration on Various Operating Systems

Part 5 – Simple IP Routing

Day 4: Part 6 – Transition Mechanisms: Dual Stack, Tunneling and Translation

Part 7 – Setup and Demo of Class Network by Trainer

Day 5: Part 8 – Student Labs

- Lecture & Demo Course: Student Labs Performed by Trainer (Big Group)
- Hands-on Course: Each Student Performs Student Labs (≤ 10)

Examinations



INTRODUCTION TO IPV6

This is an introductory course to compare the differences between IPv4 and IPv6, and solutions for successful transition to Dual Stack/Pure IPv6 network environment.

Objectives

- Understanding of IPv6 and possible implications to Organizations and Individuals
- Required for successful transition from IPv4 to IPv6 networks

Course Syllabus (1 day)

Underlying theory necessary for planning of migration to Dual Stack and IPv6 Networks

Part 1 – IP Address Architecture and Representation (Basic)

Part 2 – IP Related Protocols and Mechanisms: ICMPv6, ND & SLAAC (Basic)

Part 3 – Transition Mechanisms: Dual Stack, Tunneling and Translation

Part 4 – Implication of IPv6 for Organizations and Individuals

* This is an introductory course with no certification awarded.

Course Schedule (CNE6 Silver)

- 20 Jun - 24 Jun 2011
- 27 Jun - 01 Jul 2011
- 11 Jul - 15 Jul 2011

Registration

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