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Course 751: Java Programming in a Mixed IPv4 & IPv6 Environment (2 days)

Course Description...

IPv6 is here. Programs that require only IPv4 or only IPv6 are no longer acceptable. Professionally written programs must run on IPv4 only, IPv6 only, and on mixed IPv4/IPv6 networks. This course shows network programmers how to make a network program work with any version of IP, v4, v6 or some version of the future.

Learning Objectives...

- Addressing in IPv6
- Security concepts in IPv6
- Changes in Java for IPv6 programming

Who should attend...

Programmers who must be able to create a single program to run in an IPv4-only environment, an IPv6-only environment, or a mixed IPv4/IPv6 environment.

Prerequisites...

Competency in Java programming and a general knowledge of TCP/IP.

See next page for a detailed course outline...



Course Outline...

Unit 1 - IPv6 Overview

- Overview
- IPv4 Inherited Challenges
- Native IPv6 Security Features
- IPv6 Weaknesses

Unit 2 - IPv6 Addressing Details

- Unicast
- Multicast
- Anycast

Unit 3 – Address-Independent Java Programming

- J2EE Connector Architecture
- The Programming Interface
- Web Application Changes
- Remote Method Invocation (RMI) Changes

Unit 4 - Security Programming in IPv6

- Java Cryptography Extension (JCE)
- SSL/TSL Applications
- Enhanced TrustManager Support
- HTTP/HTTPS Enhancements

Unit 5 - Program Certification

- What Are the Certification Programs
- Writing for Certification
- Testing for Certification

Please contact your ROI representative to discuss course tailoring!!!