



Course 752: Socket 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. Using the socket API, this course shows network programmer 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 and programming in IPv6
- Changes to the Unix socket API for IPv6
- Changes to winsock API for IPv6

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 C programming, Unix socket API for IPv4, and winsock for IPv4 is necessary.



Course Outline...

Chapter 1 - IPv6 Overview

- 1.1 What's new
- 1.2 What has changed

Chapter 2 - IPv6 Addressing Details

- 2.1 Unicast
- 2.2 Multicast
- 2.3 Anycast

Chapter 3 - Address Independent Socket Programming

- 3.1 Basic Outlines
- 3.2 Solaris Changes
- 3.3 Linux Changes
- 3.4 BSD Changes
- 3.5 Microsoft winsock Changes

Chapter 4 - Security Programming in IPv6

- 4.1 Overview
- 4.2 Programming changes

Chapter 5 - A Look to the Future

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