4 Days Course on

IPV6 : Fundamentals, Protocols & Implementation

Learn.
Prepare.
Evolve.

IPv4 → **IPv6**

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TWO SIGMA TECHNOLOGIES

About the Course

In the few coming years, a new protocol Internet Protocol version 6 (IPv6) will be used together with Internet Protocol version 4 (IPv4) in order to support the shortage of the public Internet addresses The new version IPv6 is designed to support the limitation of the IPv4 and to enhance the Internet protocol in terms of security, scalability and management.. This course provides a foundation of Internet standards-based IPv6 concepts and is suitable for network engineers as well as to support professionals who are already familiar with basic networking concepts and TCP/IP.

Objectives

At the end of this program participants will be able to achieve the following objectives:

•   To identify the importance of the IPv6 in organizations.
•   To design a network topology based on the IPv6.
•   To differentiate between IPv4 and IPv6 in the data communication in a networks.
•   To develop an understanding of the issues, philosophies and techniques involved in managing and migrating an IPv4 to IPv6.

Methodology

A variety of presentation methods will be used including short lecture-style, group discussions, laboratory sessions and exercises.

Prerequisites

Basic knowledge in computer and networking.

Course Settings

Date	Refer to Training Calendar
Venue	Refer to Training Calendar
Fees	Contact Us at sales@2-sigma.com
Timings	0900-1700 (4 Days)
Inclusive	Certificates and notes
Audience	IT Officer, Network Engineer and Network Administrator
Level	Basic to Intermediate

Network Fundamentals and IPv6 - Schedule

Day 1	
09.00am – 10.00am	**Network Fundamentals I** • Internetworking • Internet Protocols
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	**Network Fundamentals II** • IPv4 Subnetting • Variable Length Subnet Masks (VLSMs)
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	**Working With Network Simulation** • Local Area Network Design • IPv4 addressing Scheme
Day 2	
09.00am – 10.00am	**Switching and Routing** • IPv4 Routing (Static, RIP, EIGRP and OSPF) • Layer 2 Switching • Virtual LANs
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	**Working with Network Simulation** • IP Routing Static • IP Routing RIP • IP Routing EIGRP • IP Routing OSPF
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	**Working with Network Simulation** • Layer 2 Switching • Virtual LANs
Day 3	
09.00am – 10.00am	**IPv6 Introduction Part 1** • IPv4 Issues and IPv6 Benefits • Ipv6 Header Structure • IPv6 Addressing Overview
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	**IPv6 Introduction Part 2** • IPv6 Address Type • IPv6 Subnetting and Aggregation

	• Implementing IPv6
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	**Working with Network Simulation (IPv6)** • IPv6 Addressing • IPv6 Neighbour Discovery • IPv6 Static Routing • IPv6 RIPng • IPv6 OSPFv3 • IPv6 Tunnelling
	Day 4
09.00am – 10.00am	**Working with Networking Devices** • IPv4 and IPv6
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	**Working with Networking Devices** • Routing and Switching
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	**Working with Networking Devices** • IPv6 Tunnelling

More Information

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To register, please email to sales@2-sigma.com or fax the registration form to 03-61880602, we will contact you for further action.

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