NIP 200
Network Industry Protocol Training

Upcoming courses:

You can find our schedules on our website at www.networksynergy.com.au/ training/scheduledates.html

Delivery & requirements:

Delivery will either be instructor led in a traditional classroom setting, or instructor led web based delivery in our virtual classroom. Participants will require pc/laptop and internet connectivity suitable for a virtual classroom.

Prerequisites:

There are no prerequisites for this course.

Network Synergy are the Brocade Authorised Training Partner for Australia and New Zealand.

As this is a Brocade certified course, we use:

➢ Brocade Certified instructors
➢ Brocade approved course material
➢ Brocade lab equipment

Overview:

This Instructor-led course provides an extensive view of networking concepts and technologies while exploring the standardized protocols used in networks today. It can also serve as a foundational course preparing students that are entering into the IP networking field needing a working knowledge of network structure and function. Studies include the physical and logical understanding of basic networking operations, Layer 2/3 addressing and standardized multi-vendor supported core, as well as management and monitoring protocols. Multicast forwarding using PIM and IGMP protocols are discussed, including an overview of popular WAN technologies deployed, in both past and present. .

Objectives

➢ ☐ Describe the OSI reference model and the function of each layer
➢ ☐ Describe the TCP/IP model
➢ ☐ Explain end-to-end packet flow
➢ ☐ Describe the differences between, an L2 switch, and an L3 switch/router
➢ ☐ Describe Layer 2 functionality and its supported protocols (VLAN, STP, 802.1Q, LACP, physical address)
➢ ☐ Describe Layer 3 concepts (IPv4v6 design, addressing, CIDR, VLSM)
➢ ☐ Describe IP routing concepts and benefits of routing protocols (OSPF, BGP)
➢ ☐ Explain the function of network services (NTP/SNTP, DNS, DHCP)
➢ ☐ Explain access management (AAA, TACACS+, RADIUS)
➢ ☐ Explain the function of management protocols (SNMP, NETCONF, RMON)
➢ ☐ Describe WAN technologies function (Frame Relay, ATM, SONET, WDM/TDM)
➢ ☐ Explain security concepts (802.1X, ACLs, TACACS+, AAA, Radius, LDAP)
➢ ☐ Define the benefits of link failure detection protocols (BFD, RFN, LFS)
➢ ☐ Describe general concepts of OpenFlow 1.3 and its characteristics
➢ ☐ Explain the differences between PoE/PoE+ and use cases
➢ ☐ Explain the function of transport protocols (FTP, TFTP, SCP)
➢ ☐ Explain the function of interactive application protocols (SSH, Telnet, HTTP, SSL/HTTPS)

For additional information please email training@networksynergy.com.au

Or visit http://www.networksynergy.com.au/training