INTERNETWORK eXpert

Internetwork Expert's CCNP Bootcamp

Introduction

Instructor Introduction

- Brian McGahan, CCIE #8593
  - MCSE NT 4.0, CCNA, CCNP
  - CCIE Routing and Switching - 2002
  - CCIE Service Provider – 2006
  - CCIE Security – 2007
  - bmcgahan@ine.com

Online Classroom Introduction

- Classroom software overview
  - Bandwidth settings
- How questions are handled during class
  - Questions of interest to the whole class
  - Questions of interest to only you
  - NDA related questions
- What to do if you have a technical issue during class
  - US and Canada: 1-877-224-8987 ext 2
  - International: +1-775-825-9943

Questions

- Cisco NDA Agreement
- Questions In Class
  - Participation is key
- Offline Questions
  - Blog
    - http://blog.INE.com
  - Online Community
    - http://www.IEOC.com
    - Web forum / mailing lists

Class Timing

- Start daily at 7am PDT (GMT -8)
- 10 minute break ~ every 50 minutes
- 1 hour lunch break at 10am PDT
- Class ends ~ 4pm PDT

Class Schedule

- Day 1 - BCMSN
  - Campus Network Design
  - VLANs
  - Trunking
  - VTP
  - Spanning-Tree Protocol
- Day 2 - BCMSN
  - Advanced Spanning-Tree Protocol
  - EtherChannel
  - Inter-VLAN Routing
  - First Hop Redundancy Protocols
  - Wireless
  - Layer 2 Security
  - Layer 2 VoIP

Class Schedule (cont.)

- Day 3 - BSCI
  – IP Routing Overview
  – EIGRP
  – OSPF
- Day 4 - BSCI
  – Advanced OSPF
  – IS-IS
  – Routing Features
  – BGP
- Day 5 - BSCI
  – Multicast
  – IPv6 Routing

Class Objectives

- CCNP *"validates knowledge and skills required to install, configure and troubleshoot converged local and wide area networks with 100 to 500 or more nodes."*
- Demonstrate *"the knowledge and skills required to manage the routers and switches that form the network core, as well as edge applications that integrate voice, wireless, and security into the network."*
- Class goal not just pass the test, but to understand the technologies!

CCNP Exam Blueprint

- www.cisco.com/go/ccnp
- Exam Topics
- Exam Tutorial
  - Review type of exam questions
- Tier 1
  - Learning the Technologies
- Tier 2
  - Learning to Apply the Technologies
- Tier 3
  - Being tested upon the Technologies

CCNP Prerequisites

- Valid CCNA Certification
- Basic knowledge of…
  - OSI model
  - TCP/IP
  - Layer 2 technologies
    - Ethernet, Frame Relay, PPP, Wifi
  - Layer 3 technologies
    - IP Routing, RIPv2, EIGRP, OSPF
  - Misc.
    - DHCP, DNS, ACLs, etc.

Recommended Readings

- General networking
  - TCP/IP Illustrated, Volume 1: The Protocols
  - Internetworking with TCP/IP Vol.1: Principles, Protocols, and Architecture
  - Interconnections: Bridges, Routers, Switches, and Internetworking Protocols
- CCNP specific
  - Authorized self study
  - Exam certification guide
- Cisco in depth
  - Cisco LAN Switching
  - Routing TCP/IP Volumes I & II
  - Cisco documentation

CCNP Hardware

- Building a home lab
- Renting rack time
- Dynamips/PEMU/GNS3

www.InternetworkExpert.com

General Q&A