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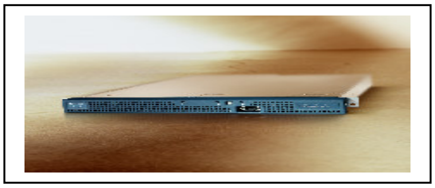

Labs Series for
Cisco® CCIE Security

Course Length: 10 weeks (80 hours), Instructor-led

Skill Development: Install, integrate, configure and troubleshoot setups layed out in typical Cisco® CCIE lab scenarios

Prerequisites: CCSP, CCNP with strong security background or equivalent experience

Target Audience: Experienced CCSP's, CCNP's with strong security background (or equivalent)

Course Objective: Provide students with the knowledge, skills and practical experience to pass the Cisco CCIE Security exam

Exams covered: Cisco CCIE Security lab exam

Lab: One-year onsite and remote access (via web) to Cisco CCIE racks(currently eight (8) CCIE racks are available)

Topics to be covered:

I. Bridging and Switching
frame relay; Catalyst VLAN; Catalyst VTP; Port-VLAN assignments; Basic ATM configuration; Catalyst mgt & security; 802.1x; Traffic control & congestion mgt; Catalyst features and advanced configuration

II. IGP Routing
OSPF, EIGRP & RIP configurations and security; PIX routing; VPN3000 routing

III. PIX Firewall
PIX configuration; management; address translation(NAT Global, static); ACL, conduit; routing; object groups, VLANs; AAA; VPN; DHCP; PPPoE; Filtering.

IV. BGP
Basic IBGP, EBGP & BGP backbone configurations*; BGP security; Summarization, filtering

V. IP/IOS Features
IP Services; QoS; NAT/PAT; NTP; DHCP;SNMP; IOS Features and user interfaces; Avanced IP/IOS features

VI. IP and IOS Features
IP addressing , DHCP, HSRP, IP services, Mobile IP; IOS user interfaces; System management; NAT NTP; SNMP; RMON; Accounting

VII. AAA
Tacacs+; Radius, Switch and router mgt; PIX management; VPN3000 mgt; Proxy authenticate; Service authenticatio FTP, telnet, HTTP.

VIII. VPN
IPSec LAN-to-LAN (IOS/PIX/VPN3000) DMVPN; Pre-shared; CA(PKI); remote access VPN; VPN3000 concentrator; WebVPN; Xauth, split-tunnel, RRI, NAT-T; high availability; Ipsec redundancy; QoS for VPN; GRE, mGRE, L2TP

IX. IOS Firewall
CBAC, Audit, Auth Proxy, PAM, Access control, performance tunning, advanced IOS firewall feature

X. Advanced Security
DoS/DDoS attacks; Network/ Host attacks; Packet marking techniques; Mitigation techniques; Security RFCs; Service provider security; Black holes, sink holes; Access lists; Lock-and-Key access-list Reflexive access-list; TCP intercept; uRPF; CAR NBAR; Netflow; 802.1x;PBR;Flooding; Spoofing Policing; Fragmentation; Sniffer traces

XI. Intrusion Detection System
IDS sensor appliance 42XX; Sensor configuration Signature tuning; Shunning; TCP resets; Sensor features; IEV;IOS IDS; PIX IDS; SPAN, RSPAN

Open Lab Hours: Monday through Thurs, 10:00am to 9:30pm, Fri/Sat/Sun 9:30a to 5:30p

Reference Textbooks: CCIE Security Exam Certification Guide (CCIE Self-Study) (2nd Edition); CCIE Security Practice Labs; CCIE Practical Studies: Security; Network Security Principles and Practices (Optional; not included in the cost of tuition)

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