Securing Cisco Routers and Switches v1.0

SECURE

Delivery Type: Classroom
Duration: 5 days

Overview

This five-day course aims to provide network security engineers with the knowledge and skills needed to secure Cisco Router and Switch based IOS Software networks using security services based on Cisco IOS Software.

Delegates will be able to secure the network environment using existing Cisco IOS Software features, and install and configure components of the Cisco IOS Software. Components include the Zone-Based Policy Firewall, Cisco IOS Intrusion Prevention System (IPS), user-based firewall, and secure tunnels using IP Security (IPsec) virtual private network (VPN) technology including public key infrastructure (PKI). Other components include virtual tunnel interface/dynamic virtual tunnel interface (VTI/DVTI), Group Encrypted Transport VPN (GET VPN), Dynamic Multipoint Virtual Private Network (DMVPN), Secure Sockets Layer (SSL) VPN, and advanced switch security features. The course focuses on the implementation and troubleshooting aspects of the lifecycle services approach, adding some elements of the design phase as well.

Target Audience

✓ Internetwork professionals who want to ensure security of their network using IOS devices

✓ Anyone seeking to learn the latest features in IOS 15.0 code to evaluate for their production environments.

✓ Internetwork professionals who seek CCNP Security certification.

Pre-Requisites

Attendees should meet the following prerequisites:

✓ CCNA Certification, ICND1 and ICND2 or CCNABC Required

✓ CCNA Security Certification IINS Required.

✓ Working knowledge of Microsoft Windows OS is an advantage.

Certification

Recommended preparation for exam(s):

✓ 642-637 - Securing Networks with Cisco Routers and Switches

✓ SECUREis one of the four courses required for the Cisco Certified Network Professional for Security

Career Certification

Objectives

After completing this program, you will be able to:

- ✓ Implement and maintain Cisco IOS Software infrastructure protection controls in a Cisco router- and switch-based network infrastructure
- ✓ Implement and maintain Cisco IOS Software threat control and containment technologies in a Cisco router-based perimeter infrastructure
- ✓ Implement and maintain Cisco IOS Software VPN technologies in a Cisco router-based WAN
- ✓ Implement and maintain Cisco IOS Software remote access VPN technologies in a Cisco router-based remote access solution

Follow on Courses

The following courses are recommended for further study :

- ✓ FIREWALL - Deploying Cisco ASA Firewall Solutions
- ✓ VPN - Deploying Cisco ASA VPNSolutions
- ✓ IPS - Implementing Cisco Intrusion Prevention System

Further Information

Recertification:

Cisco professional level certifications (CCNP, CCNP SP Operations, CCNP Wireless, CCDP, CCNP Security, CCNP Voice, and CCIP) are valid for three years. To recertify, pass any 642 exam that is part of the professional level curriculum or pass any CCIE/CCDE written exam before the certification expiration date.

Achieving or recertifying any of the certifications above automatically extends your active Associate and Professional level certification(s) up to the point of expiration of the last certification achieved. For more information, access the Cisco About Recertification page