Securing Networks with Cisco Routers and Switches (SECURE)

Course Summary

Description

The Securing Networks with Cisco Routers and Switches (SECURE) 1.0 course is a five-day course that aims to providing network security engineers with the knowledge and skills needed to secure Cisco IOS Software router- and switch-based networks, and provide security services based on Cisco IOS Software. Successful graduates will be able to secure the network environment using existing Cisco IOS Software features, and install and configure components of 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). Components also 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.

Objectives

At the end of this course, students 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

Topics

- Deploying Cisco IOS Software Network Foundation Protection
- Deploying Cisco IOS Software Threat Control and Containment
- Deploying Cisco IOS Software Site-to-Site Transmission Security
- Deploying Secure Remote Access with Cisco IOS Software

Audience

- Network security engineers (NSEs)
- Anyone with their CCNA Security Certification and working towards CCNP Security Certification

Prerequisites

- Cisco CCNA certification
- Cisco CCNA Security certification
- Working knowledge of the Microsoft Windows operating system

Duration

Five days

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