



## Security with Cisco Router (SECUR)

Duration: 5 Days

### Course Content

This course is teach the knowledge and skills needed to secure Cisco IOS router networks.

### Course Objective

After completing this course the student should be able to:

- Identify network security threats.
- Secure remote access using Cisco Secure ACS for Windows 2000 and Cisco IOS AAA software features.
- Protect Internet access by configuring a Cisco perimeter router.
- Configure the Cisco IOS Firewall Feature Set Context-Based Access Control.
- Configure Cisco IOS Firewall Authentication Proxy
- Configure Cisco IOS Firewall Intrusion Detection System
- Use IPSec features in Cisco IOS software to create a secure site-to-site VPN using pre-shared keys and digital certificates.
- Use Cisco Easy VPN features to create a secure remote access VPN solution.
- Use Cisco Security Device Manager to secure Cisco routers
- Use Cisco Router Management Center to manage Cisco Router VPN implementations

### Course Outline

- Fundamental Network Security
  - Network Security Requirement
  - Threats
  - Attacks
- Access Control List
  - Access Control List Concepts
  - Implementing ACL
  - Protecting Common Attacks with ACL
- Authentication Server
  - RADIUS and TACACS+ Concepts
  - Service Authentication with Authentication Server
- Firewall Features
  - CBAC Concepts and Implementation
  - Authentication Proxy
  - IDS
- VPN
  - VPN Concepts



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- Implementing Site-to-site VPN with Cisco Routers
- Implementing Remote-access VPN with Cisco Routers

### **Prerequisites**

The participant should have a working knowledge of the following:

- Certification as a CCNA or the equivalent knowledge (optional)
- Basic knowledge of the Windows operating system

Familiarity with the networking and security terms and concepts (the concepts are learned in prerequisite training or by reading industry publications)