



# Cisco Secure Virtual Private Networks

*Andrew Mason*

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## **Cisco Secure Virtual Private Networks** Andrew Mason

Cisco authorized self-study book for CCSP VPN foundation learning

- Evaluate the features, functions, and benefits of Cisco VPN products
- Understand the component technologies that are implemented in Cisco VPN products
- Learn the procedures, steps, and commands required to configure and test IPSec in Cisco IOS Software and the Cisco PIX Firewall
- Install and configure the Cisco VPN client to create a secure tunnel to a Cisco VPN Concentrator and Cisco PIX Firewall
- Configure and verify IPSec in the Cisco VPN Concentrator, Cisco router, and Cisco PIX Firewall
- Enable interoperability among the Cisco VPN Concentrator, Cisco routers, and Cisco PIX Firewalls
- Apply scalability and advanced configuration features supported in the Cisco IPSec implementation

With the recent availability of high-speed Internet connections to the home and the continued move of workers out of central office locations (whether for travel, telecommuting, or branch office expansion), virtual private networks (VPNs) have become a critical part of corporate network architectures. VPNs use advanced encryption and tunneling to permit your organization to establish secure, end-to-end, private network connections over third-party networks, such as the Internet. This new networking paradigm not only adds to the efficiency of the corporate workforce, but it also saves money by leveraging third-party networks and allows you to scale your networks with greater ease.

*Cisco Secure Virtual Private Networks* is a Cisco authorized self-paced learning tool. It is a comprehensive, results-oriented book designed to give you the knowledge you need to plan, deploy, and manage VPNs in your network environment. Beginning with an overview of VPNs and IPSec, the book introduces you to the Cisco(r) VPN family of products. It then delves into the details of configuring and troubleshooting IPSec site-to-site VPNs on Cisco IOS(r) routers and Cisco PIX(r) Firewalls using preshared keys and digital certificates. You learn how to install the VPN 3000 Concentrator and how to configure it for remote access using preshared keys and digital certificates. Monitoring and administration techniques are also presented. The book concludes with a discussion on the scalability solutions available for IPSec VPNs. Each chapter includes an explicit set of learning objectives and concludes with a set of review questions to assess your understanding of the material. Numerous examples are provided throughout, and detailed diagrams help clarify concepts presented in the text.

*Cisco Secure Virtual Private Networks* provides you with a complete solution for designing, implementing, and managing Cisco VPN networks, helping you make the most efficient use of your VPN solution.

*Cisco Secure Virtual Private Networks* is part of a recommended study program from Cisco Systems(r) that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining).

This volume is in the Certification Self-Study Series offered by Cisco Press(r). Books in this series provide officially developed training solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations.

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