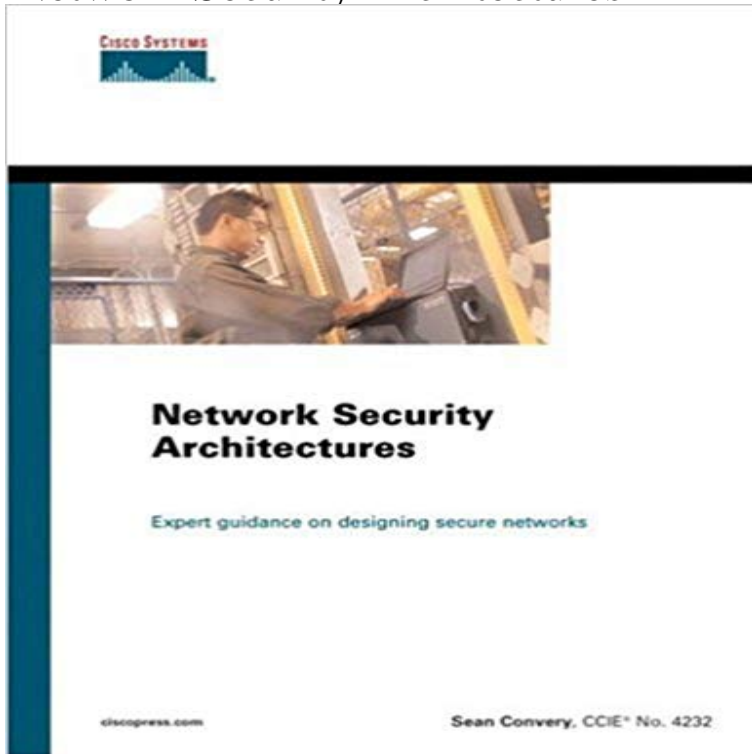


# Network Security Architectures



Expert guidance on designing secure networks Understand security best practices and how to take advantage of the networking gear you already have Review designs for campus, edge, and teleworker networks of varying sizes Learn design considerations for device hardening, Layer 2 and Layer 3 security issues, denial of service, IPsec VPNs, and network identity Understand security design considerations for common applications such as DNS, mail, and web Identify the key security roles and placement issues for network security elements such as firewalls, intrusion detection systems, VPN gateways, content filtering, as well as for traditional network infrastructure devices such as routers and switches Learn 10 critical steps to designing a security system for your network Examine secure network management designs that allow your management communications to be secure while still maintaining maximum utility Try your hand at security design with three included case studies Benefit from the experience of the principal architect of the original Cisco Systems SAFE Security Blueprint Written by the principal architect of the original Cisco Systems SAFE Security Blueprint, *Network Security Architectures* is your comprehensive how-to guide to designing and implementing a secure network. Whether your background is security or networking, you can use this book to learn how to bridge the gap between a highly available, efficient network and one that strives to maximize security. The included secure network design techniques focus on making network and security technologies work together as a unified system rather than as isolated systems deployed in an ad-hoc way. Beginning where other security books leave off, *Network Security Architectures* shows you how the various technologies that make up a security

system can be used together to improve your networks security. The technologies and best practices youll find within are not restricted to a single vendor but broadly apply to virtually any network system. This book discusses the whys and hows of security, from threats and counter measures to how to set up your security policy to mesh with your network architecture. After learning detailed security best practices covering everything from Layer 2 security to e-commerce design, youll see how to apply the best practices to your network and learn to design your own security system to incorporate the requirements of your security policy. Youll review detailed designs that deal with todays threats through applying defense-in-depth techniques and work through case studies to find out how to modify the designs to address the unique considerations found in your network. Whether you are a network or security engineer, Network Security Architectures will become your primary reference for designing and building a secure network. This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

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