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Cisco Press - Cisco Router Firewall Security

The Cisco IOS firewall offers you the feature-rich functionality that you've come to expect from best-of-breed firewalls: address translation, authentication, encryption, stateful filtering, failover, URL content filtering, ACLs, NBAR, and many others. Cisco Router Firewall Security teaches you how to use the Cisco IOS firewall to enhance the security of your perimeter routers and, along the way, take advantage of the flexibility and scalability that is part of the Cisco IOS Software package.

Harden perimeter routers with Cisco firewall functionality and features to ensure network security

- Detect and prevent denial of service (DoS) attacks with TCP Intercept, Context-Based Access Control (CBAC), and rate-limiting techniques
- Use Network-Based Application Recognition (NBAR) to detect and filter unwanted and malicious traffic
- Use router authentication to prevent spoofing and routing attacks
- Activate basic Cisco IOS filtering features like standard, extended, timed, lock-and-key, and reflexive ACLs to block various types of security threats and attacks, such as spoofing, DoS, Trojan horses, and worms

- Use black hole routing, policy routing, and Reverse Path Forwarding (RPF) to protect against spoofing attacks
- Apply stateful filtering of traffic with CBAC, including dynamic port mapping
- Use Authentication Proxy (AP) for user authentication
- Perform address translation with NAT, PAT, load distribution, and other methods
- Implement stateful NAT (SNAT) for redundancy
- Use Intrusion Detection System (IDS) to protect against basic types of attacks
- Obtain how-to instructions on basic logging and learn to easily interpret results
- Apply IPSec to provide secure connectivity for site-to-site and remote access connections
- Read about many, many more features of the IOS firewall for mastery of router security

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