

Audience

This book is designed for network administrators and others who use Cisco routers to implement policies, whether the policies are for security or to ensure that networks are robust. Basic knowledge of Cisco routers and TCP/IP is assumed. Those who are relatively new to using Cisco routers should start with *Chapter 1* and work their way through *Chapter 5*. Network administrators who need to implement policy-based routing using route maps, whether with interior routing protocols or with BGP, should read *Chapter 6*. *Chapter 7* contains case studies that readers may find useful.

Administrators who are experienced in using Cisco routers can use this book as a reference for policy implementation, debugging, and access lists in general. *Chapter 2* describes masking techniques that may reduce access list sizes and reduce the number of necessary changes. *Chapter 3*, *Chapter 4*, *Chapter 6*, and *Chapter 7* have many examples of implementing basic security, robustness, and business policies. Readers interested in debugging access list problems should find *Chapter 5* useful. The three appendixes contain helpful reference tables of access list keywords, decimal to binary conversions, and masks and ports that common applications use. Network administrators may find the table showing network masks, access list masks, and valid networks for each possible prefix length particularly useful.