

# About This Guide

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PIX (Private Internet Exchange) Firewall provides full firewall protection that completely conceals the architecture of an internal network from the outside world.

This guide describes:

- Chapter 1, “Introduction,” describes the PIX Firewall, its Adaptive Security feature and new features for this release.
- Chapter 2, “Installing PIX Firewall,” describes how to install PIX Firewall for the first time or when upgrading from a previous version.
- Chapter 3, “Configuring and Testing PIX Firewall,” describes how to initially configure the PIX Firewall to participate on the network, how to test the new configuration, and how to improve the configuration to access each feature.
- Chapter 4, “Command Reference,” describes each PIX Firewall command and provides syntax, usage guidelines, and an example.

## Audience

This guide is for network managers who perform any of the following tasks:

- managing network security
- installing and configuring firewalls
- managing default and static routes, and TCP and UDP services

If you are not familiar with firewalls and network security, the book *Firewalls and Internet Security* by William Cheswick and Steven Bellows, 1994, Addison-Wesley, ISBN 0-201-63357-4 is highly recommended.

## Document Conventions

This guide uses the following conventions:

- The symbol ^ represents the key labeled Ctrl (control). To enter a control key; for example, ^z, hold down the Ctrl key while you press the z key.
- Command names are in **boldface**. PIX Firewall commands are described in Chapter 4, “Command Reference.”
- Command syntax in Chapter 4, “Command Reference,” that you supply is in *italics*. Command options in square brackets [ ] can be optionally entered, and commands separated by a vertical bar (|) require you to enter one command, but not the other(s).

- Examples depict screen displays and the command line in screen font. Information you need to enter is in **boldface**.



**Warning** This warning symbol means *danger*. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

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**Note** Means *reader take note*. Notes contain helpful suggestions, indicate commands that will be obsolete in the next release, and draw your attention to material that needs to be considered before performing an activity.

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## Getting Help

For service and support for a product purchased from a reseller, contact the reseller. Resellers offer a wide variety of Cisco service and support programs, which are described in the section “Service and Support” in the information packet that shipped with your chassis.

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**Note** If you purchased your product from a reseller, you can access Cisco Connection Online (CCO) as a guest. CCO is Cisco Systems’ primary, real-time support channel. Your reseller offers programs that include direct access to CCO’s services.

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For service and support for a product purchased directly from Cisco, use CCO.

## CD-ROM Documentation

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**Note** Cisco documentation and additional literature are available on a CD-ROM called Cisco Connection Documentation. The CD is updated and shipped monthly so it might be more current than printed documentation. To order additional copies of the Cisco Connection Documentation CD, contact your local sales representative or call Customer Service. The CD is available both as a single CD and as an annual subscription. You can also access technical documentation on the World Wide Web URL <http://www.cisco.com>.

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## Cisco Connection Online

CCO is Cisco Systems’ primary, real-time support channel. SMARTnet customers and partners can self-register on CCO to obtain additional content and services.

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**Note** If you purchased your product from a reseller, you can access CCO as a guest. Your reseller offers programs that include direct access to CCO’s services.

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You can access CCO in the following ways:

- WWW: <http://www.cisco.com>.
- WWW: <http://www-europe.cisco.com>.
- WWW: <http://www-china.cisco.com>.
- Telnet: [cco.cisco.com](telnet://cco.cisco.com).
- Modem: From North America, 408 526-8070; from Europe, 33 1 64 46 40 82. Use the following terminal settings: VT100 emulation; databits: 8; parity: none; stop bits: 1; and baud rates up to 14.4 kbps.

For a copy of CCO's Frequently Asked Questions (FAQ), contact [cco-help@cisco.com](mailto:cco-help@cisco.com). For additional information, contact [cco-team@cisco.com](mailto:cco-team@cisco.com).

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**Note** If you need technical assistance with a Cisco product that is under warranty or covered by a Cisco maintenance contract, contact Cisco's Technical Assistance Center (TAC) at 800 553-2447, 408 526-7209, or [tac@cisco.com](mailto:tac@cisco.com).

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Please use CCO to obtain general information about Cisco Systems, Cisco products, or upgrades. If CCO is not accessible, contact 800 553-6387, 408 526-7208, or [cs-rep@cisco.com](mailto:cs-rep@cisco.com).

