1

Getting Started

Contents

Introduction

This guide is intended for use with the following switches:

■ ProCurve Switch 8200zl series

■ ProCurve Switch 5400zl series

■ ProCurve Switch 3500yl and 6200yl series

■ ProCurve Switch 2900yl series

It describes how to use the command line interface (CLI) to configure, manage, monitor, and troubleshoot switch operation. For an overview of other product documentation for the above switches, refer to *"Product Documentation"* on page ix. You can download documentation from the ProCurve Networking web site, **www.procurve.com**.

Conventions

This guide uses the following conventions for command syntax and displayed information.

Command Syntax Statements

Syntax: ip < default-gateway < *ip-addr* >> | routing >

Syntax: show interfaces [*port-list*]

■ Vertical bars (|) separate alternative, mutually exclusive elements.

■ Square brackets ([ ]) indicate optional elements.

■ Braces (< >) enclose required elements.

■ Braces within square brackets ([< >]) indicate a required element within an optional choice.

■ Boldface indicates use of a CLI command, part of a CLI command syntax, or other displayed element in general text. For example:

   "Use the **copy tftp** command to download the key from a TFTP server."

■ Italics indicate variables for which you must supply a value when executing the command. For example, in this command syntax, you must provide one or more port numbers:

   Syntax: telnet < *ipv6-address* >

Command Prompts

In the default configuration, your switch displays a CLI prompt similar to the following example:

```
ProCurve 8212zl#
```

To simplify recognition, this guide uses **ProCurve** to represent command prompts for all switch models. For example:

```
ProCurve#
```

(You can use the **hostname** command to change the text in the CLI prompt.)

Screen Simulations

Displayed Text. Figures containing simulated screen text and command output look like this:

```
ProCurve> show version
Image stamp:   /sw/code/build/info
               January 14, 2008 13:43:13
               K.13.01
               243

ProCurve>
```

Figure 1-1.   Example of a Figure Showing a Simulated Screen

In some cases, brief command-output sequences appear without figure identification. For example:

```
ProCurve(config)# clear public-key
ProCurve(config)# show ip client-public-key
show_client_public_key: cannot stat keyfile
```

Configuration and Operation Examples

Unless otherwise noted, examples using a particular switch model apply to all switch models covered by this guide.

Keys

Simulations of actual keys use a bold, sans-serif typeface with square brackets. For example, the Tab key appears as **[Tab]** and the "Y" key appears as **[Y]**.

Sources for More Information

This guide covers features related to IPv6 operation in software release K.13.01, and includes an IPv6 command index on page xi.

For information about switch operation and features not covered in this guide, refer to the switch publications listed in this section.

N o t e   For the latest version of all ProCurve switch documentation referred to below, including Release Notes covering recently added features, visit the ProCurve Networking web site at **www.procurve.com**, click on **Technical support**, and then click on **Product Manuals (all)**.

■ Software Release Notes—*Release Notes* are posted on the ProCurve Networking web site and provide information on new software updates:

• new features and how to configure and use them

• software management, including downloading software to the switch

• software fixes addressed in current and previous releases

■ Product Notes and Software Update Information—The printed *Read Me First* shipped with your switch provides software update information, product notes, and other information.

■ *Installation and Getting Started Guide*—Use the *Installation and Getting Started Guide* shipped with your switch to prepare for and perform the physical installation. This guide also steps you through connecting the switch to your network and assigning IP addressing, as well as describing the LED indications for correct operation and trouble analysis.

■ *Management and Configuration Guide*—Use this guide for information on topics such as:

• various interfaces available on the switch

• memory and configuration operation

• interface access

• IP addressing

• time protocols

• port configuration, trunking, traffic control, and PoE operation

• Redundant management

• SNMP, LLDP, and other network management topics

• file transfers, switch monitoring, troubleshooting, and MAC address management

■ *Advanced Traffic Management Guide*—Use this guide for information on topics such as:

- VLANs: Static port-based and protocol VLANs, and dynamic GVRP VLANs
- spanning-Tree: 802.1D (STP), 802.1w (RSTP), and 802.1s (MSTP)
- meshing
- Quality-of-Service (QoS)
- Access Control Lists (ACLs)

■ *Multicast and Routing Guide*—Use this guide for information on topics such as:

- IGMP
- PIM (SM and DM)
- IP routing
- VRRP

■ *Access Security Guide*—Use this guide for information on topics such as:

- Local username and password security
- Web-Based and MAC-based authentication
- RADIUS and TACACS+ authentication
- SSH (Secure Shell) and SSL (Secure Socket Layer) operation
- 802.1X access control
- Port security operation with MAC-based control
- Authorized IP Manager security
- Key Management System (KMS)

■ *IPv6 Configuration Guide*—Use this guide for information on topics such as:

- Overview of IPv6 operation and features supported in software release K.13.01
- Configuring IPv6 addressing
- Using IPv6 management, security, and troubleshooting features

■ Feature Index—The following software guides for your switch include an index of non-IPv6 features (and where to find them). This index immediately preceeds the first chapter in each guide listed.

- *Management and Configuration Guide*
- *Advanced Traffic Management Guide*
- *Access Security Guide*
- *Multicast and Routing Guide*

Getting Documentation From the Web

To obtain the latest versions of documentation and release notes for your switch:

1. Go to the ProCurve Networking web site at

   www.procurve.com

2. Click on **Technical support**.

3. Click on **Product manuals**.

4. Click on the product for which you want to view or download a manual.

If you need further information on ProCurve switch technology, visit the ProCurve Networking web site at:

   www.procurve.com

Online Help

Menu Interface

If you need information on specific parameters in the menu interface, refer to the online help provided in the interface. For example:

```
===========================- CONSOLE - MANAGER MODE -===========================
                  Switch Configuration - Internet (IP) Service

  IP Routing : Disabled

  Default Gateway :
  Default TTL      : 64
  Arp Age          : 20


  IP Config [DHCP/Bootp] : Manual
  IP Address   : 10.35.204.104
  Subnet Mask : 255.255.240.0
                                                              Online Help
                                                              for Menu

 Actions->   Cancel    Edit    Save      Help
Display help information.
Use arrow keys to change action selection and <Enter> to execute action.
```
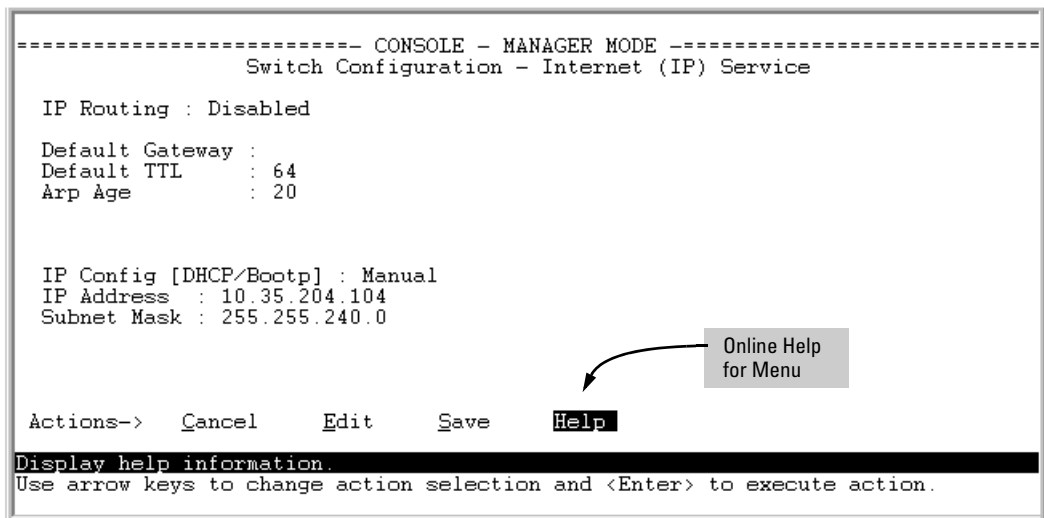
Figure 1-2.   Online Help for Menu Interface

Command Line Interface

If you need information on a specific command in the CLI, type the command name followed by **help**. For example:

```
ProCurve# write help
Usage: write <memory|terminal>

Description: View or save the running configuration of the switch.

            write terminal - displays the running configuration of the
                             switch on the terminal
            write memory   - saves the running configuration of the
                             switch to flash. The saved configuration
                             becomes the boot-up configuration of the switch
                             the next time it is booted.
```

Figure 1-3.   Example of CLI Help

Web Browser Interface

If you need information on specific features in the ProCurve Web Browser Interface, use the online Help. You can access the Help by clicking on the question mark button in the upper right corner of any of the web browser interface screens.
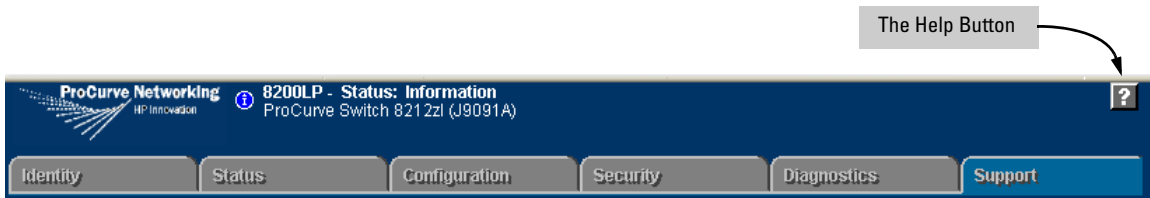

Figure 1-4.   Button for Web Browser Interface Online Help

N o t e   To access the online Help for the ProCurve web browser interface, you need either ProCurve Manager (version 1.5 or greater) installed on your network or an active connection to the World Wide Web. Otherwise, Online help for the web browser interface will not be available.

To Set Up and Install the Switch in Your Network

Use the ProCurve *Installation and Getting Started Guide* (shipped with the switch) for the following:

- Notes, cautions, and warnings related to installing and using the switch and its related modules
- Instructions for physically installing the switch in your network
- Quickly assigning an IP address and subnet mask, set a Manager password, and (optionally) configure other basic features.
- Interpreting LED behavior.

For the latest version of the *Installation and Getting Started Guide* for your switch, refer to "Getting Documentation From the Web" on page 1-6.