co – Password Recovery Procedure for the Cisco 1700 Series

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Introduction Before You Begin Conventions Prerequisites Step-by-Step Procedure Example of Password Recovery Procedure Related Information

Introduction

This document describes the procedure for recovering an **enable password** or **enable secret** passwords. These passwords are used to protect access to privileged EXEC and configuration modes. The **enable password** password can be recovered but the **enable secret** password is encrypted and can only be replaced with a new password using the procedure below.

Note: This password recovery procedure works for the following Cisco products:

• Cisco 806 • Cisco 4700 • Catalyst • Cisco 827 • Cisco 2948G–L3 • Cisco 827 • Cisco AS5x00 • Catalyst 4840G • Cisco uBR900 • Catalyst 4908G–L3 • Cisco 1003 • Cisco 7000 • Catalyst 5500 • Cisco 1003 • Cisco 7000 • Catalyst 5500 • Cisco 1004 • Catalyst 5500 • Cisco 1004 • Catalyst • Cisco 7100 8510–CSR • Cisco 7100 8510–CSR • Cisco 7200 8510–MSR • Cisco 7200 8510–MSR • Cisco 7500 8540–CSR • Cisco 1600 • Cisco 1600 • Cisco • Catalyst			
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			• Cisco MC3810

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4500	Cisco	Route Processor
	L \$1010	Module
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Conventions

For more information on document conventions, see the Cisco Technical Tips Conventions.

Prerequisites

There are no specific prerequisites for this document.

Step-by-Step Procedure

To recover your password, follow the steps below:

1. Attach a terminal or PC with terminal emulation to the console port of the router.

Use the following terminal settings:

- ♦ 9600 baud rate
- ♦ No parity
- ♦ 8 data bits
- ♦ 1 stop bit
- ♦ No flow control

For additional information on cabling and connecting a terminal to the console port or the AUX port, refer to the following documents:

- ♦ Cabling Guide for Console and AUX Ports on Cisco Routers
- ♦ Connecting a Terminal to Catalyst 2948G–L3, 4908G–L3, and 4840G Series Switches
- ♦ Catalyst 8510CSR, and 8540CSR Switches Console Port Pinouts
- 2. If you still have access to the router, type **show version** and record the setting of the configuration register; it is usually 0x2102 or 0x102.

Click here to see the output of a **show version** command.

- 3. If you don't have access to the router (because of a lost login or TACACS password), you can safely consider that your configuration register is set to 0x2102.
- 4. Using the power switch, turn off the router and then turn it back on.

Important: To simulate step 4 on a Cisco 6400, pull out and then replace the Node Route Processor (NRP) or Node Switch Processor (NSP) card.

Important: To simulate step 4 on a Cisco 6x00 using NI-2, pull out and then replace the NI-2 card.

5. Press **Break** on the terminal keyboard within 60 seconds of the power–up to put the router into ROMMON.

If the break sequence doesn't work, see Possible Key Combinations for Break Sequence During Password Recovery for other key combinations.

- 6. Type **confreg 0x2142** at the rommon 1> prompt to boot from Flash without loading the configuration.
- 7. Type **reset** at the rommon 2> prompt.

The router reboots but ignores its saved configuration.

- 8. Type no after each setup question or press Ctrl-C to skip the initial setup procedure.
- 9. Type **enable** at the Router> prompt.

You'll be in enable mode and see the Router# prompt.

10. **Important**: Type **configure memory** or **copy startup–config running–config** to copy the nonvolatile RAM (NVRAM) into memory.

Do not type configure terminal.

11. Type write terminal or show running-config.

The **show running–config** and **write terminal** commands show the configuration of the router. In this configuration you see under all the interfaces the **shutdown** command, which means all interfaces are currently shutdown. Also, you can see the passwords (enable password, enable secret, vty, console passwords, and so on) either in encrypted or unencrypted format. The unencrypted passwords can be re–used, the encrypted ones will have to be changed with a new one.

12. Type **configure terminal** and make the changes.

The prompt is now hostname(config)#.

- 13. Type **enable secret** *<password>* to change the **enable secret** password, for example.
- 14. Issue the **no shutdown** command on every interface that is used.

If you issue a **show ip interface brief** command, every interface that you want to use should be "up up".

- 15. Type config-register 0x2102, or the value you recorded in step 2.
- 16. Press Ctrl-z or end to leave the configuration mode.

The prompt is now **hostname#**.

17. Type write memory or copy running-config startup-config to commit the changes.

Example of Password Recovery Procedure

The example below presents an actual password recovery procedure. We created this example using a Cisco 2600. Even if you are not using a Cisco 2600, this example will be almost exactly what you experience on your product.

```
Router>enable
Password:
Password:
Password:
% Bad secrets
```

Cisco – Password Recovery Procedure for the Cisco 1700 Series Routers

Router>show version Cisco Internetwork Operating System Software IOS (tm) C2600 Software (C2600-IS-M), Version 12.0(7)T, RELEASE SOFTWARE (fc2) Copyright (c) 1986-1999 by cisco Systems, Inc. Compiled Tue 07-Dec-99 02:21 by phanguye Image text-base: 0x80008088, data-base: 0x80C524F8 ROM: System Bootstrap, Version 11.3(2)XA4, RELEASE SOFTWARE (fc1) Router uptime is 3 minutes System returned to ROM by abort at PC 0x802D0B60 System image file is "flash:c2600-is-mz.120-7.T" cisco 2611 (MPC860) processor (revision 0x202) with 26624K/6144K bytes of memory. Processor board ID JAB031202NK (3878188963) M860 processor: part number 0, mask 49 Bridging software. X.25 software, Version 3.0.0. Basic Rate ISDN software, Version 1.1. 2 Ethernet/IEEE 802.3 interface(s) 2 Serial(sync/async) network interface(s) 1 ISDN Basic Rate interface(s) 32K bytes of non-volatile configuration memory. 8192K bytes of processor board System flash partition 1 (Read/Write) 8192K bytes of processor board System flash partition 2 (Read/Write) Configuration register is 0x2102 Router> !--- The router was just powercycled and during bootup a !--- break sequence was sent to the router. Ţ *** System received an abort due to Break Key *** signal= 0x3, code= 0x500, context= 0x813ac158 PC = 0x802d0b60, Vector = 0x500, SP = 0x80006030 rommon 1 > confreg 0x2142 You must reset or power cycle for new config to take effect rommon 2 > reset System Bootstrap, Version 11.3(2)XA4, RELEASE SOFTWARE (fcl) Copyright (c) 1999 by cisco Systems, Inc. TAC:Home:SW:IOS:Specials for info C2600 platform with 32768 Kbytes of main memory program load complete, entry point: 0x80008000, size: 0x6fdb4c

Restricted Rights Legend

Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c) of the Commercial Computer Software - Restricted Rights clause at FAR sec. 52.227-19 and subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS sec. 252.227-7013. cisco Systems, Inc. 170 West Tasman Drive San Jose, California 95134-1706 Cisco Internetwork Operating System Software IOS (tm) C2600 Software (C2600-IS-M), Version 12.0(7)T, RELEASE SOFTWARE (fc2) Copyright (c) 1986-1999 by cisco Systems, Inc. Compiled Tue 07-Dec-99 02:21 by phanguye Image text-base: 0x80008088, data-base: 0x80C524F8 cisco 2611 (MPC860) processor (revision 0x202) with 26624K/6144K bytes of memory. Processor board ID JAB031202NK (3878188963) M860 processor: part number 0, mask 49 Bridging software. X.25 software, Version 3.0.0. Basic Rate ISDN software, Version 1.1. 2 Ethernet/IEEE 802.3 interface(s) 2 Serial(sync/async) network interface(s) 1 ISDN Basic Rate interface(s) 32K bytes of non-volatile configuration memory. 8192K bytes of processor board System flash partition 1 (Read/Write) 8192K bytes of processor board System flash partition 2 (Read/Write) --- System Configuration Dialog ---Would you like to enter the initial configuration dialog? [yes/no]: n Press RETURN to get started! 00:00:19: %LINK-3-UPDOWN: Interface BRI0/0, changed state to up 00:00:19: LINK-3-UPDOWN: Interface Ethernet0/0, changed state to up 00:00:19: %LINK-3-UPDOWN: Interface Ethernet0/1, changed state to up 00:00:19: %LINK-3-UPDOWN: Interface Serial0/0, changed state to down 00:00:19: %LINK-3-UPDOWN: Interface Serial0/1, changed state to down 00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0/0, changed state to down 00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/0, changed state to up Router> 00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1, changed state to up 00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0, changed state to down 00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1, changed state to down 00:00:50: %SYS-5-RESTART: System restarted --Cisco Internetwork Operating System Software IOS (tm) C2600 Software (C2600-IS-M), Version 12.0(7)T, RELEASE SOFTWARE (fc2) Copyright (c) 1986-1999 by cisco Systems, Inc. Compiled Tue 07-Dec-99 02:21 by phanguye 00:00:50: %LINK-5-CHANGED: Interface BRI0/0, changed state to administratively down 00:00:52: %LINK-5-CHANGED: Interface Ethernet0/0, changed state to administratively down 00:00:52: %LINK-5-CHANGED: Interface Serial0/0, changed state to administratively down

00:00:52: %LINK-5-CHANGED: Interface Ethernet0/1, changed state to administratively down 00:00:52: %LINK-5-CHANGED: Interface Serial0/1, changed state to administratively down 00:00:53: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/0, changed state to down 00:00:53: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1, changed state to down Router> Router>enable Router#copy startup-config running-config Destination filename [running-config]? 1324 bytes copied in 2.35 secs (662 bytes/sec) Router# 00:01:24: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0/0:1, changed state to down 00:01:24: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0/0:2, changed state to down Router#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config) #enable secret cisco Router(config)#^Z 00:01:54: %SYS-5-CONFIG_I: Configured from console by console Router#show ip interface brief Interface IP-Address OK? Method Status Protocol Ethernet0/0 10.200.40.37 YES TFTP Serial0/0 unassigned YES TFTP TFTP administratively down down administratively down down BRI0/0193.251.121.157YESunsetadministratively downdownBRI0/0:1unassignedYESunsetadministratively downdownBRI0/0:2unassignedYESunsetadministratively downdown Ethernet0/1unassignedYESTFTPadministratively downdownSerial0/1unassignedYESTFTPadministratively downdownLoopback0193.251.121.157YESTFTPupup Router#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config)#interface Ethernet0/0 Router(config-if) #no shutdown Router(config-if)# 00:02:14: %LINK-3-UPDOWN: Interface Ethernet0/0, changed state to up 00:02:15: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/0, changed state to up Router(config-if)#interface BRI0/0 Router(config-if)#no shutdown Router(config-if)# 00:02:26: %LINK-3-UPDOWN: Interface BRI0/0:1, changed state to down 00:02:26: %LINK-3-UPDOWN: Interface BRI0/0:2, changed state to down 00:02:26: %LINK-3-UPDOWN: Interface BRI0/0, changed state to up 00:02:115964116991: %ISDN-6-LAYER2UP: Layer 2 for Interface BR0/0, TEI 68 changed to up Router(config-if)#^Z Router# 00:02:35: %SYS-5-CONFIG_I: Configured from console by console Router#copy running-config startup-config Destination filename [startup-config]? Building configuration... [OK] Router#show version Cisco Internetwork Operating System Software IOS (tm) C2600 Software (C2600-IS-M), Version 12.0(7)T, RELEASE SOFTWARE (fc2) Copyright (c) 1986-1999 by cisco Systems, Inc. Compiled Tue 07-Dec-99 02:21 by phanguye Image text-base: 0x80008088, data-base: 0x80C524F8

ROM: System Bootstrap, Version 11.3(2)XA4, RELEASE SOFTWARE (fc1)

Router uptime is 3 minutes System returned to ROM by abort at PC 0x802D0B60 System image file is "flash:c2600-is-mz.120-7.T"

cisco 2611 (MPC860) processor (revision 0x202) with 26624K/6144K bytes of memory. Processor board ID JAB031202NK (3878188963) M860 processor: part number 0, mask 49 Bridging software. X.25 software, Version 3.0.0. Basic Rate ISDN software, Version 1.1. 2 Ethernet/IEEE 802.3 interface(s) 2 Serial(sync/async) network interface(s) 1 ISDN Basic Rate interface(s) 32K bytes of non-volatile configuration memory. 8192K bytes of processor board System flash partition 1 (Read/Write) 8192K bytes of processor board System flash partition 2 (Read/Write)

Configuration register is 0x2142

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#config-register 0x2102
Router(config)#^Z
00:03:20: %SYS-5-CONFIG_I: Configured from console by console

Router#show version

Cisco Internetwork Operating System Software IOS (tm) C2600 Software (C2600-IS-M), Version 12.0(7)T, RELEASE SOFTWARE (fc2) Copyright (c) 1986-1999 by cisco Systems, Inc. Compiled Tue 07-Dec-99 02:21 by phanguye Image text-base: 0x80008088, data-base: 0x80C524F8

ROM: System Bootstrap, Version 11.3(2)XA4, RELEASE SOFTWARE (fc1)

Router uptime is 3 minutes System returned to ROM by abort at PC 0x802D0B60 System image file is "flash:c2600-is-mz.120-7.T"

```
cisco 2611 (MPC860) processor (revision 0x202)
with 26624K/6144K bytes of memory.
Processor board ID JAB031202NK (3878188963)
M860 processor: part number 0, mask 49
Bridging software.
X.25 software, Version 3.0.0.
Basic Rate ISDN software, Version 1.1.
2 Ethernet/IEEE 802.3 interface(s)
2 Serial(sync/async) network interface(s)
1 ISDN Basic Rate interface(s)
32K bytes of non-volatile configuration memory.
8192K bytes of processor board System flash partition 1 (Read/Write)
8192K bytes of processor board System flash partition 2 (Read/Write)
8192K bytes of processor board System flash partition 2 (Read/Write)
Configuration register is 0x2142 (will be 0x2102 at next reload)
Router#
```

Related Information

• Technical Support – Cisco Systems

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