

# Recover from Corrupt or Missing File Image or in ROMmon Mode

- Introduction, on page 1
- Recover Switch from a Corrupt or Missing Image in ROMmon Mode, on page 2
- Recover Switch from a Continous Reboot, on page 2
- Recover from a Corrupt or Missing Image, on page 5

## Introduction

This section explains how to recover a Catalyst 9400 Series Supervisor from a missing or corrupted system image, or an incorrect boot variable. The Supervisor module image can sometimes be corrupted during a Trivial File Transfer Protocol (TFTP) download, or when manually deleted by the user. The switch provides a number of ways to recover should any of these events occur on the Supervisor Engine.

When the Supervisor-equipped switch boots up or resets, there are these two possibilities:

- 1. The switch starts up normally and displays the Hostname> prompt or the default Switch> prompt.
- 2. The switch cannot find the image, the image is corrupt, no image is present in the bootflash device, or the boot variable is set incorrectly and therefore winds up in ROM monitor (ROMmon) mode. It displays the rommon> prompt. In ROMmon mode, the switch must be able to locate a valid system image from either the bootflash device. These Supervisor Engine also provides an Ethernet Management port (10/100 Base T), which is available only from ROMmon mode and can be configured to download a new valid image through TFTP from a TFTP process. There is no option for Xmodem or Ymodem which allows you to copy an image through the console port.

### **Normal Operation**

When the switch operates normally, it is at the hostname> prompt or the default Switch> prompt. You can issue the dir bootflash: command to view the contents of the Supervisor Flash device, as this example shows. Issue the verify command to determine if the image has a valid checksum, as this example shows:

```
Switch#dir bootflash:
Directory of bootflash:/
    1 -rw- 6516904 Jul 11 2000 02:14:10 packages.conf
61341696 bytes total (54824664 bytes free)
Switch#verify bootflash:packages.conf
```

Since the switch recognizes all Flash devices in ROMmon mode, you can issue the **dir** *device-name* commands to show the Flash contents, as is demonstrated in the remaining sections of this document

Notice in the previous example, there is only a single boot image in bootflash. You can have as many system images as you can fit in the bootflash: Bootflash size is fixed at 64 MB.

The following are the ROMmon variables that Catalyt 9400 supports and examples to set them:

MANUAL\_BOOT=yes

A value of "yes" disables auto boot and enables manual booting. A value of "no" enables auto boot.

- DEFAULT\_GATEWAY=172.27.74.1
- IP\_ADDRESS=172.27.74.111
- IP SUBNET MASK=255.255.255.0
- TFTP\_SERVER=172.19.64.31

## Recover Switch from a Corrupt or Missing Image in ROMmon Mode

The switch could wind up in ROMmon mode due to these reasons:

- 1. A switch reload or crash after the image was corrupted or deleted. See the *Recover from a Corrupt or Missing Image* section of this document for more information..
- 2. See the Recover from a Continuous Reboot section of this document to determine if a valid system image is present in the bootflash:. If there is no file present, see the *Recover from a Corrupt or Missing Image* section of this document.
- **3.** The boot variable is incorrect, but a valid image is still present. See the *Recover from a Continuous Reboot* section of this document for more information.

These primary symptoms occur in your network if the switch is in ROMmon mode:

- Routing failures occur because ROMmon mode cannot route between VLAN interfaces, and is only
  designed to recover the switch.
- If you try to Telnet to any of the interfaces it fails, and if you are connected to the console port of the Supervisor, you see this prompt:

rommon 1>

## **Recover Switch from a Continous Reboot**

The switch might end up in a continuous reboot sequence if the boot variable is not set to the correct system image file and proper destination device.

3.

You can recover the switch with the following steps:

- 1. You should already have a console connection to the Supervisor to see the previous output and perform the recovery. On a standard Windows operating system platform, configure a HyperTerminal connection directly to COM1 with these settings:
  - 9600 bps
  - Eight data bits
  - No parity
  - One stop bit
  - Flow control = none

Use a rolled male RJ-45 cable to connect from COM1 on the PC to the console port on the Supervisor module. Use a DB-9 connector on the PC.

2. The reboot continues until autoboot is prevented when you press Control-C and go into ROMmon mode. This is shown in this example:

```
*
 * Welcome to ROM Monitor for WS-X4014 System.
 * Copyright (c) 2002 by Cisco Systems, Inc.
 * All rights reserved.
 ROM Monitor Program Version 12.1(11br)EW
Board type 1, Board revision 5
Swamp FPGA revision 14, Dagobah FPGA revision 48
MAC Address : 00-01-96-d9-f6-fe
Ip Address : Not set.
Netmask : Not set.
Gateway : Not set.
TftpServer : Not set.
Main Memory : 256 Mbytes
 ***** The system will autoboot in 5 seconds *****
Type control-C to prevent autobooting.
!--- Press Control-C.
Autoboot cancelled..... please wait !!!
rommon 1 > [interrupt]
Enter the dir bootflash: command to list the files present in the bootflash.
rommon 1 >dir bootflash:
         Attributes Name
Size
```

1235       -w       bootloader_evt_handle.log         4096       drw-       orse         4096       drw-       orse         4096       drw-       rst_sync         4096       drw-       rst_sync         4096       drw-       nram_config         33554432       -rw-       nvram_config         3355433       -rw-       npp-tech-time         45045       -rw-       moltalge rollsoorry-summary         45045       -rw-       moltalge rollsoorry-summary         45045       -rw-       moltalge rollsoorry-summary         45046       -rw-       moltalge rollsoorry-summary         8401770       -rw-       satk86.170606         8401470       -rw-       satk86.170606         8401470       -rw-       memleak.lcl         4096       drw-       onep         15       -rw-       mackscl         9860       -rw-       memleak.lcl         4096       drw-       onep         15       -rw-       packsges.conf         47       -rw-       cat9k-sepsee.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5511620       -rw-       cat9k-sepshase.BLD_V166_THROTTLE_LATEST_20170820_090650	4096	drw-	.installer
4096         drw-         .ssh           8192         drw-         core           4096         drw-         .rollback_timer           55         -rw-         boothelper.log           355         -rw-         pnp-tech-discovery-summary           1036         -rw-         vlan.dat           6758176         -rw-         mella x86.170703           89401770         -rw-         sdX86.17066           510316         -rw-         memla&.tcl           4096         drw-         onep           151         -rw-         dope_hist           8214         -rw-         bdCF-csphase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           7151820         -rw-         cat9k-csphase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           71548396         -rw-         cat9k-csphase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg	1295	-rw-	bootloader evt handle.log
8192         drw-         core           4096         drw-         .pst_sync           4096         drw-         .rollback_timer           4096         drw-         gs_script           252         .rw-         boothelper.log           33554432         .rw-         nyram_config           53         .rw-         pnp-tech-time           45045         .rw-         pnp-tech-discovery-summary           1036         .rw-         wolan,dat           67537176         .rw-         sdX86.170703           89423547         .rw-         sdX86.170606           94040170         .rw-         sdX86.170606           94040170         .rw-         sdX86.170606           94060         .rw-         memleak.tol           915         .rw-         gages.conf           47         .rw-         packages.conf           47         .rw-         cat9x-cc stdriver.BLD V166 THROTTLE LATEST 20170820 090650.SSA.pkg           71531620         .rw-         cat9x-cpeschell.BLD V166 THROTTLE LATEST 20170820 090650.SSA.pkg           72648996         .rw-         cat9x-cpeschell.BLD V166 THROTTLE LATEST 20170820 090650.SSA.pkg           72648996         .rw-         cat9x-speschell.BLD V166 TH	4096	drw-	.ssh
4096         drw-         .prst_sync           4096         drw-         rollback_timer           4096         drw-         gs_script           252         -rw-         boothelper.log           355         -rw-         pnp-tech-time           45045         -rw-         pnp-tech-discovery-summary           1036         -rw-         vlan.dat           67587176         -rw-         satx86.170606           89423347         -rw-         satx86.170703           89442347         -rw-         satx86.170606           8940170         -rw-         satx86.170606           8940170         -rw-         satx86.170606           8940170         -rw-         satx86.170606           80409         -rw-         memleak.tcl           80409         -rw-         memleak.tcl           80409         -rw-         cat9k-copsabe.EDD V166 THROTTLE LATEST 20170820 090650.SSA.pkg           7551120         -rw-         cat9k-copsabe.EDD V166 THROTTLE LATEST 20170820 090650.SSA.pkg           7546489         -rw-         cat9k-repbase.BD V166 THROTTLE LATEST 20170820 090650.SSA.pkg           7547488         -rw-         cat9k-repbase.BD V166 THROTTLE LATEST 20170820 090650.SSA.pkg           75484996 <td>8192</td> <td>drw-</td> <td>core</td>	8192	drw-	core
4096       drw-       rollback_timer         4096       drw-       gs_script         252       -rw-       boothelper.log         31554432       -rw-       pnp-tech-time         45045       -rw-       pnp-tech-discovery-summary         45045       -rw-       pnp-tech-discovery-summary         45045       -rw-       mcln_x86_kernel_20170628.SSA         8423547       -rw-       sdx86.170606         54034568       -rw-       upg NS258_rom33sb_fpga170505.SSA         89869       -rw-       memleak.tcll         4096       drw-       onep         15       -rw-       dope_hist         8314       -rw-       pacatyk-cgstshell.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         76571620       -rw-       cat9k-cgstshell.LD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         713478568       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72546188       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72546242       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7254728       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72548       -rw-       cat9k-spbase.2017-08	4096	drw-	.prst sync
4096       drw-       gs_cript_         252       -rw-       boothelper.log         3354432       -rw-       pnp-tech-time         45045       -rw-       pnp-tech-discovery-summary         1036       -rw-       vlan.dat         67581716       -rw-       adx86.170606         89433547       -rw-       adx86.170606         89401770       -rw-       adx86.170606         80434568       -rw-       memleak.tcl         4096       drw-       onep         15       -rw-       memleak.tcl         4096       drw-       onep         151       -rw-       dobc-space.	4096	drw-	.rollback timer
252         -rw-         boothelper.log           33554432         -rw-         pnptech-time           45045         -rw-         pnptech-time           45045         -rw-         pnptech-discovery-summary           1036         -rw-         pnptech-discovery-summary           1036         -rw-         mcln_x86 kernel_20170628.SSA           89423547         -rw-         sdX86.170703           89423547         -rw-         mcln_x86 kernel_20170505.SSA           8940170         -rw-         sdX86.170606           54034568         -rw-         memleak.tcll           4096         drw-         onep           15         -rw-         mackages.conf           47         -rw-         cat9k-cogradriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           76571620         -rw-         cat9k-cogradriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           7648996         -rw-         cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           7648996         -rw-         cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           7648996         -rw-         cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           7648986         -rw-         cat9k-repbase.DLD_V166_THROTTLE_LATEST_20170820_090650.	4096	drw-	gs script
31354432       -rw-       nvram_config         35       -rw-       pnp-tech-time         45045       -rw-       vlan.dat         67587176       -rw-       sdx86.170703         89423547       -rw-       sdx86.170606         54034568       -rw-       upg_NSB2SB_rom133sb_fpga170505.SSA         98869       -rw-       memleak.tcl         0496       drw-       onep         15       -rw-       dope_nist         814       -rw-       dope_noping         5514216       -rw-       dope_noping         5514216       -rw-       cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         76571620       -rw-       cat9k-roboot.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         73478368       -rw-       cat9k-roboot.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         74748996       -rw-       cat9k-roboot.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         74748996       -rw-       cat9k-roboot.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7464896       -rw-       cat9k-roboot.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7464896       -rw-       cat9k-roboot.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7464896       -rw-       cat9k-roboot	252	-rw-	boothelper.log
35       -rw-       pnp-tech-time         45045       -rw-       pnp-tech-discovery-summary         1036       -rw-       vlan.dat         67587176       -rw-       mcln_x86_kernel_20170628.SSA         89423547       -rw-       sdx86.170606         54034568       -rw-       upg NSE2SB_rom133ab_fpga170505.SSA         98669       -rw-       memleak.tcl         4096       drw-       onep         15       -rw-       dope_nist         8314       -rw-       packages.conf         477       -rw-       cat9k-ceg_striver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         76551620       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         71536986       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         71648986       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72648986       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5192624       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5292624       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         72648986       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         72	33554432	-rw-	nvram config
45045       -rw-       vpp-tech-discovery-summary         1036       -rw-       vlan.dat         1036       -rw-       mcln.x86_kernel_20170628.sSA         89423547       -rw-       sdx86.170703         89401770       -rw-       sdx86.170606         54034568       -rw-       upg_NSE2SB_rom133sb_fpg170505.SSA         98869       -rw-       memleak.tcl         4096       drw-       onep         15       -rw-       dope_hist         8314       -rw-       packages.conf         47       -rw-       DHCP-snooping         5514216       -rw-       cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         76571620       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         705488       -rw-       cat9k-rpbot.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72648996       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7264896       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7264896       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7264284       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7264284       -rw-	35	-rw-	pnp-tech-time
1036       -rw-       vlan.dat         67587176       -rw-       mcln.x86.kernel_20170628.SSA         89423547       -rw-       sdx86.170703         89401770       -rw-       sdx86.170606         54034568       -rw-       upg.NS2SB_rom133sb_fpga170505.SSA         9869       -rw-       memleak.tcl         4096       drw-       onep         15       -rw-       packages.conf         47       -rw-       DHCP-snooping         76571620       -rw-       cat9k-cc_erdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         713478368       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         725464996       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72648996       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         54924256       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-repbase.BLD_V1	45045	-rw-	pnp-tech-discovery-summary
67587176       -rw-       mcln_x86_kernel_20170628.SSA         99423547       -rw-       sdx86.170703         99401770       -rw-       sdx86.170703         98469       -rw-       upg_NSB2SB_roml33sb_fpga170505.SSA         98669       -rw-       memleak.tcl         0496       drw-       onep         15       -rw-       dope_hist         8314       -rw-       packages.conf         47       -rw-       DECP-snooping         5514216       -rw-       cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         1536996       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-spbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5710104       -rw-       cat9k-srdriver.2017-08-25_09.41_srchanna.SSA.pkg         5767588       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         57667582       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         57667582       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg      <	1036	-rw-	vlan.dat
89423547       -rw-       sdX86.170703         89401770       -rw-       sdX86.170606         89401770       -rw-       memleak.tcl         4096       drw-       onep         15       -rw-       dope_hist         8314       -rw-       packages.conf         76571620       -rw-       Cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         76571620       -rw-       cat9k-espbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         71536986       -rw-       cat9k-repase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72648996       -rw-       cat9k-repase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72648996       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72648996       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         72648996       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7264896       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         7264896       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         72663412       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         72563412       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         726	67587176	-rw-	mcln x86 kernel 20170628.SSA
99401770         -rw-         upg_NSB2SE_rom133sb_fpga170505.SSA           98869         -rw-         upg_NSB2SE_rom133sb_fpga170505.SSA           4096         drw-         onep           15         -rw-         dop_hist           8314         -rw-         packages.conf           77         -rw-         DBCP-snooping           cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         cat9k-sepbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           7551262         -rw-         cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           2764584         -rw-         cat9k-sepbase.2017-08-25_09.41_srchana.SSA.pkg           76563412         -rw-         cat9k-repbase.2017-08-25_09.41_srchana.SSA.pkg           76563412         -rw-         cat9k-repbase.2017-08-25_09.41_srchana.SSA.pkg           76563412         -rw-         cat9k-repbase.2017-08-25_09.41_srchana.SSA.pkg	89423547	-rw-	sdx86.170703
4004565         -rw-         upg NSB2SB_rom133sb_fpga170505.SSA           98869         -rw-         memlaak.tcl           9096         ddw-         onep           15         -rw-         dope_hist           8314         -rw-         packages.conf           7         -rw-         DHCP-snooping           5514216         -rw-         cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           cat9k-guestshell.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         cat9k-repboot.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           2764896         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           2764896         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           2764896         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           2764898         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           12256224         -rw-         cat9k-sipbase.DL0_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           12563412         -rw-         cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg           1510104         -rw-         cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg	89401770	-rw-	sdX86.170606
Bigs_Restrict         Bigs_Restrict           98869         -rw-         memleak.tcl           4096         drw-         onep           15         -rw-         bdpe_hist           8314         -rw-         packages.conf           47         -rw-         cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           76571620         -rw-         cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           733478368         -rw-         cat9k-rpbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-rpbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-sipsase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-sipsase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-sipsase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27647588         -rw-         cat9k-sipsase.2017-08-25_09.41_srchanna.SSA.pkg           27648996         -rw-         cat9k-scpbase.2017-08-25_09.41_srchanna.SSA.pkg           76563412         -rw-         cat9k-spbase.2017-08-25_09.41_srchanna.SSA.pkg           76563412         -rw-         cat9k-sipsase.2017-08-25_09.41_srchanna.SSA.pkg           76767572 <td< td=""><td>54034568</td><td>-rw-</td><td>ung NSB2SB rom133sb fnga170505 SSA</td></td<>	54034568	-rw-	ung NSB2SB rom133sb fnga170505 SSA
Auge         Interference           4096         drw         onep           15         -rw-         dope_hist           8314         -rw-         packages.conf           47         -rw-         DHCP-snooping           5514216         -rw-         cat9k-cc_stdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           76571620         -rw-         cat9k-guestshell.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           29546198         -rw-         cat9k-ripbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           29546198         -rw-         cat9k-ripbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           27648996         -rw-         cat9k-sippaa.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           54924256         -rw-         cat9k-sippaa.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           54924256         -rw-         cat9k-sippaa.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           510104         -rw-         cat9k-sippaa.SU_1708-25_09.41_strchanna.SSA.pkg           5510104         -rw-         cat9k-webui.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           5563412         -rw-         cat9k-repbase.2017-08-25_09.41_strchanna.SSA.pkg           76563412         -rw-         cat9k-repbase.2017-08-25_09.41_strchanna.SSA.pkg           7644884 <t< td=""><td>98869</td><td>- ~ w -</td><td>memleak tol</td></t<>	98869	- ~ w -	memleak tol
15       -rw-       dope_hist         8314       -rw-       packages.conf         9514216       -rw-       DHCP-snooping         5514216       -rw-       cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         76571620       -rw-       cat9k-espbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7153696       -rw-       cat9k-rpbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         29546198       -rw-       cat9k-rpbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         29546198       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         29546198       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         29547256       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         2954824256       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         29547257       -rw-       cat9k-sipbase.2017-08-25_09.41_strchanna.SSA.pkg         5510104       -rw-       cat9k-respbase.2017-08-25_09.41_strchanna.SSA.pkg         76563412       -rw-       cat9k-rpbase.2017-08-25_09.41_strchanna.SSA.pkg         7648484       -rw-       cat9k-sipbase.2017-08-25_09.41_strchanna.SSA.pkg         54916052       -rw-       cat9k-sipbase.2017-08-25_09.41_strchanna.SSA.pkg	4096	drw-	
1.7         UMPG_INST           8314         -rw-         packages.conf           47         -rw-         DBCP-snooping           5514216         -rw-         cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           5514216         -rw-         cat9k-guestshell.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           737478368         -rw-         cat9k-guestshell.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           25546198         -rw-         cat9k-ripbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           2549256         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           54924256         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           6767588         -rw-         cat9k-sipbase.SLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           5510104         -rw-         cat9k-sipbase.SLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           5510104         -rw-         cat9k-sipbase.SLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           5510104         -rw-         cat9k-sipbase.SLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           5510104         -rw-         cat9k-sipbase.SU17-08-25_09.41_srchanna.SSA.pkg           5510104         -rw-         cat9k-resptase.2017-08-25_09.41_srchanna.SSA.pkg           529547257         -rw- </td <td>15</td> <td>-rw-</td> <td>done hist</td>	15	-rw-	done hist
11         Implexession           9514         Tw         DRCP-snooping           5514216         -rw-         cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           76571620         -rw-         cat9k-espbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           733478368         -rw-         cat9k-repease.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           29546198         -rw-         cat9k-repbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           29546198         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           29546198         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           54924256         -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg           5510104         -rw-         cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg           7656312         -rw-         cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg           7656440         -rw-         cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg           765772         -rw-         cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg           76563412         -rw-         cat9k-repbase.2017-08-25_09.08_srchanna.SSA.pkg           76563412         -rw-         cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg           76563412         -rw-	231 <i>1</i>	_ ~ w	nackages conf
1.1       Duff-shoping         cat9k-cc_srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         1536996       -rw-         cat9k-espbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         2536996       -rw-         cat9k-guestshell.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         2546198       -rw-         cat9k-rpbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-         cat9k-sippas.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-         cat9k-sippas.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-         cat9k-sippas.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         2764896       -rw-         cat9k-sippas.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         2765224       -rw-         cat9k-sdpse.SLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         12256224       -rw-         cat9k-scpstehell.ELD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         12256224       -rw-         cat9k-scpstehell.2017-08-25_09.41_srchanna.SSA.pkg         12565412       -rw-         cat9k-spbase.2017-08-25_09.41_srchanna.SSA.pkg         25647257       -rw-         cat9k-sippas.2017-08-25_09.41_srchanna.SSA.pkg <td>47</td> <td>_ x.u</td> <td></td>	47	_ x.u	
0.1110       -1W       cat9k-esphase.BLD_V166_THROTTLE_LATEST_20170820_090650.SA.pkg         1536996       -rw-       cat9k-esphase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         273478368       -rw-       cat9k-rpbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-rpbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         2764705       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         2764707       -cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         2764708       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764707       -rw-       cat9k-repbot.2017-08-25_09.41_srchanna.SSA.pkg         2764484       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764757       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         27647684       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         2764848	551/016	- T W -	ant Ok-an and river RID V166 TUPOTTIE INTERT 20170820 000650 SEA nkg
7057020       -Tw-       cat9x-guestshell.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         737478368       -rw-       cat9x-guestshell.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         29546198       -rw-       cat9k-rpbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-rpbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         6767588       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         6767588       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         6767588       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         6767588       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         76563412       -rw-       cat9k-sipbase.2017-08-25_09.41_stchanna.SSA.pkg         76563412       -rw-       cat9k-repbot.2017-08-25_09.41_stchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_stchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_stchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_stchanna.SSA.pkg     <	76571620	- T W -	catok-combaco RID V166 THEOTHE LATEST 20170020 000650 SSA.pkg
1353950       -Tw-         cat9k-rgbasel.BLD_V166_THROTTLE_LATEST_20170620_090650.SSA.pkg         29546198       -rw-         cat9k-rgbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         54924256       -rw-         cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         6767588       -rw-         cat9k-softiver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         12256224       -rw-         cat9k-coc_srdriver.DV166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-         cat9k-coc_srdriver.2017-08-25_09.41_srchanna.SSA.pkg         1536984       -rw-         cat9k-rgbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-         cat9k-rspbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-         cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         54916052       -rw-         cat9k-softriver.2017-08-25_09.41_srchanna.SSA.pkg         526208       -rw-         cat9k-softriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-         cat9k-softriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-	1526006	- T W -	catok evoataball DID VIGC HIDOUTILE LAIESI 20170020 090000.558.pkg
373475360       -Tw-       cat9x-rpbost.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9x-rpbost.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         27648996       -rw-       cat9x-rpbost.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         276788       -rw-       cat9x-rpbost.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         6767588       -rw-       cat9x-webui.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         12256224       -rw-       cat9x-webui.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9x-webui.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9x-rebuister.2017-08-25_09.41_srchanna.SSA.pkg         5510104       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         2560105       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         256208       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         25610104       -rw-       cat9k-cspbase.2017-08-25_09.08_srchanna.SSA.pkg         256208       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         256312       -rw-       c	1330990	-1 W-	catok guescsnell.BLD_VI06_INROTTLE_LATEST_201/0620_090650.SSA.pkg
22764896       -Tw-       cat3x-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         54924256       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         6767588       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         12256224       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-scdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-scdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-scdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         75653112       -rw-       cat9k-webui.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         7565312       -rw-       cat9k-cc_srdriver.2017-08-25_09.41_srchanna.SSA.pkg         7565312       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         54916052       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-scdriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-scpbase.2017-08-25_09.08_srchanna.SSA.pkg         75653412       -rw-       cat9k-scpbase.2017-08-25_09.08_srchanna.SSA.pkg         756534	20546100	-1 W -	catok mphase.BLD_VI00_INCOILE_LATESI_20170020_090050.SSA.pkg
27648956       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         6767588       -rw-       cat9k-sipbase.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         12256224       -rw-       cat9k-webui.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.41_srchanna.SSA.pkg         76563412       -rw-       cat9k-repbase.2017-08-25_09.41_srchanna.SSA.pkg         373449684       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764788       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764788       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764788       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764788       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-repbase.2017-08-25_09.08_srchanna.SSA.pkg         75563412       -rw-       cat9k-repbase.2017-08-25_09.08_srchanna.SSA.pkg         75653412       -rw-       cat9k-repbase.2017-08-25_09.08_srchanna.	29546198	- r.w -	Calex-rppool.BLD_V166_THROTTLE_LATEST_201/0820_090650.SSA.pkg
53924256       -rw-       cat9k-s1pspa.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         6767588       -rw-       cat9k-srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         5510104       -rw-       cat9k-spbase.2017-08-25_09.41_srchanna.SSA.pkg         76563412       -rw-       cat9k-spbase.2017-08-25_09.41_srchanna.SSA.pkg         2373449684       -rw-       cat9k-spbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         27647052       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         2764884       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         27646884       -rw-       cat9k-sepbase.2017-08-25_09.41_srchanna.SSA.pkg         276508       -rw-       cat9k-sepbase.2017-08-25_09.41_srchanna.SSA.pkg         1256208       -rw-       cat9k-sepbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-spbase.2017-08-25_09.08_srch	2/048990	- r.w -	Calex-sippase.BLD_V106_THROTTLE_LATEST_201/0820_090650.SSA.pkg
6767888       -rw-       cat9k-srdriver.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         12256224       -rw-       cat9k-webui.BLD_V166_THROTTLE_LATEST_20170820_090650.SSA.pkg         75563412       -rw-       cat9k-cc_srdriver.2017-08-25_09.41_srchanna.SSA.pkg         1536984       -rw-       cat9k-guestshell.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-iosxe.2017-08-25_09.41_srchanna.SSA.pkg         1256211       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         1256208       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         1256208       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg	54924256	-rw-	catex-sipspa.BLD_VI66_THROTTLE_LATEST_201/0820_090650.SSA.pkg
12256224       -rw-       cat9k-webul.BLD_V166_THROTTLE_LATEST_20170820_090550.SSA.pkg         5510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.41_srchanna.SSA.pkg         1536984       -rw-       cat9k-egpbase.2017-08-25_09.41_srchanna.SSA.pkg         373449684       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-rpbot.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764757       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-webui.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         123694       -rw-       cat9k-sepbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg	6/6/588	-rw-	cat9k-srdriver.BLD_V166_THROTTLE_LATEST_201/0820_090650.SSA.pkg
S510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.41_srchanna.SSA.pkg         76563412       -rw-       cat9k-gpbase.2017-08-25_09.41_srchanna.SSA.pkg         373449684       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764707       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         27647084       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764707       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764784       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764784       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         2764787       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         276488       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         2764884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         2764884       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         2764884<	12256224	-rw-	cat9k-webul.BLD_V166_THROTTLE_LATEST_201/0820_090650.SSA.pkg
76563412       -rw-       cat9k-espbase.2017-08-25_09.41_srchanna.SSA.pkg         1536984       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         5510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         276475	5510104	-rw-	cat9k-cc_srdriver.2017-08-25_09.41_srchanna.SSA.pkg
1536984       -rw-       cat9k-guestsnel1.2017-08-25_09.41_srchanna.SSA.pkg         373449684       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.41_srchanna.SSA.pkg         8266       -rw-       cat9k-cc_srdriver.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-sepbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-guestshell.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-repbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-repbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-repbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         2767572       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27	/6563412	-rw-	cat9k-espbase.2017-08-25_09.41_srchanna.SSA.pkg
373449684       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         29547297       -rw-       cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         8266       -rw-       cat9k-cc_srdriver.2017-08-25_09.41_srchanna.SSA.pkg         76563412       -rw-       cat9k-spbase.2017-08-25_09.08_srchanna.SSA.pkg         7536984       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         737345588       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpbost.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27647572       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         2767572	1536984	-rw-	cat9k-guestshell.2017-08-25_09.41_srchanna.SSA.pkg
29547297       -rw-       cat9k-rpboot.2017-08-25_09.41_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         54916052       -rw-       cat9k-sippspa.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-srdriver.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.41_srchanna.SSA.pkg         8266       -rw-       cat9k-iosxe.2017-08-25_09.04_srchanna.SSA.pkg         5510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-guestshell.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         1225	373449684	-rw-	cat9k-rpbase.2017-08-25_09.41_srchanna.SSA.pkg
27644884       -rw-       cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-srdriver.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.41_srchanna.SSA.pkg         8266       -rw-       cat9k-cc_srdriver.2017-08-25_09.41_srchanna_isol.SSA.conf         5510104       -rw-       cat9k-cspbase.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-guestshell.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-rgbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rgbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-rgbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266	29547297	-rw-	cat9k-rpboot.2017-08-25_09.41_srchanna.SSA.pkg
54916052       -rw-       cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg         6767572       -rw-       cat9k-srdriver.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.41_srchanna.SSA.pkg         8266       -rw-       cat9k-cc_srdriver.2017-08-25_09.41_srchanna.SSA.pkg         5510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-spbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-rgbase.2017-08-25_09.08_srchanna.SSA.pkg         373445588       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpboot.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         2764884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         9079	27644884	-rw-	cat9k-sipbase.2017-08-25_09.41_srchanna.SSA.pkg
6767572       -rw-       cat9k-srdriver.2017-08-25_09.41_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.41_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.41_srchanna_isol.SSA.conf         5510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-espbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-guestshell.2017-08-25_09.08_srchanna.SSA.pkg         373445588       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-sepbui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k-septiver.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k-septiver.2017-08-25_09.08_srchanna.SSA.pkg         8266	54916052	-rw-	cat9k-sipspa.2017-08-25_09.41_srchanna.SSA.pkg
12256208       -rw-       cat9k-webui.2017-08-25_09.41_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.41_srchanna_isol.SSA.conf         5510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-espbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-guestshell.2017-08-25_09.08_srchanna.SSA.pkg         373445588       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpboot.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k-iosxe.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k-iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -r	6767572	-rw-	cat9k-srdriver.2017-08-25_09.41_srchanna.SSA.pkg
8266       -rw-       cat9k_iosxe.2017-08-25_09.41_srchanna_isol.SSA.conf         5510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-espbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         373445588       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpboot.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna_iso2.SSA.conf         9079       -rw-       packages.conf.02-         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv	12256208	-rw-	cat9k-webui.2017-08-25_09.41_srchanna.SSA.pkg
5510104       -rw-       cat9k-cc_srdriver.2017-08-25_09.08_srchanna.SSA.pkg         76563412       -rw-       cat9k-espbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-guestshell.2017-08-25_09.08_srchanna.SSA.pkg         373445588       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpboot.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-	8266	-rw-	cat9k_iosxe.2017-08-25_09.41_srchanna_iso1.SSA.conf
76563412       -rw-       cat9k-espbase.2017-08-25_09.08_srchanna.SSA.pkg         1536984       -rw-       cat9k-guestshell.2017-08-25_09.08_srchanna.SSA.pkg         373445588       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpboot.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.iso2.SSA.conf         9079       -rw-       packages.conf.02-         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv.gz	5510104	-rw-	cat9k-cc_srdriver.2017-08-25_09.08_srchanna.SSA.pkg
1536984       -rw-       cat9k-guestshell.2017-08-25_09.08_srchanna.SSA.pkg         373445588       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpboot.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9164       -rw-       cat9k_sconf.02-         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv.gz	76563412	-rw-	cat9k-espbase.2017-08-25_09.08_srchanna.SSA.pkg
373445588       -rw-       cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg         29547259       -rw-       cat9k-rpboot.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         9079       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna.SSA.pkg         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv.gz	1536984	-rw-	cat9k-guestshell.2017-08-25_09.08_srchanna.SSA.pkg
29547259       -rw-       cat9k-rpboot.2017-08-25_09.08_srchanna.SSA.pkg         27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna_iso2.SSA.conf         9079       -rw-       packages.conf.02-         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv.gz	373445588	-rw-	cat9k-rpbase.2017-08-25_09.08_srchanna.SSA.pkg
27644884       -rw-       cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg         54916052       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna_iso2.SSA.conf         9079       -rw-       packages.conf.02-         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv.gz	29547259	-rw-	cat9k-rpboot.2017-08-25_09.08_srchanna.SSA.pkg
54916052       -rw-       cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg         6767572       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna_iso2.SSA.conf         9079       -rw-       packages.conf.02-         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv.gz	27644884	-rw-	cat9k-sipbase.2017-08-25_09.08_srchanna.SSA.pkg
6767572       -rw-       cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg         12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna_iso2.SSA.conf         9079       -rw-       packages.conf.02-         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv.gz	54916052	-rw-	cat9k-sipspa.2017-08-25_09.08_srchanna.SSA.pkg
12256208       -rw-       cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg         8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna_iso2.SSA.conf         9079       -rw-       packages.conf.02-         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv.gz	6767572	-rw-	cat9k-srdriver.2017-08-25_09.08_srchanna.SSA.pkg
8266       -rw-       cat9k_iosxe.2017-08-25_09.08_srchanna_iso2.SSA.conf         9079       -rw-       packages.conf.02-         47160612       -rw-       dope-A0-300817-143021.csv.gz         11414692       -rw-       dope-LC1-A0-300817-173015.csv.gz	12256208	-rw-	cat9k-webui.2017-08-25_09.08_srchanna.SSA.pkg
9079 -rw- packages.conf.02- 47160612 -rw- dope-A0-300817-143021.csv.gz 11414692 -rw- dope-LC1-A0-300817-173015.csv.gz	8266	-rw-	cat9k_iosxe.2017-08-25_09.08_srchanna_iso2.SSA.conf
47160612 -rw- dope-A0-300817-143021.csv.gz 11414692 -rw- dope-LC1-A0-300817-173015.csv.gz	9079	-rw-	packages.conf.02-
11414692 -rw- dope-LC1-A0-300817-173015.csv.gz	47160612	-rw-	dope-A0-300817-143021.csv.gz
	11414692	-rw-	dope-LC1-A0-300817-173015.csv.gz



Note

The reason the switch reboots continuously is because the system image file name specified does not exist, but there is a valid file in the bootflash. Also, the system image file name specified is case sensitive. If it is not specified correctly, it causes a continuous reboot.

- 4. Since you have the required system image file present in the bootflash:, you can issue the boot bootflash:<filename> command to boot the switch. The system is booted with that specified image. If the switch fails to load due to the specified system image being corrupt, or the valid system file is not present, see the *Recover from a Corrupt or Missing Image* section of this document.
- 5. Issue the **enable** command to enter into EXEC mode, as this example shows:

```
Switch>enable
Password:
Switch#
```

- 6. The system is back up. Issue the **dir bootflash:** command to note the file in the bootflash:.
- 7. Issue the **show bootvar** command to check the current boot variable.

```
Switch#show bootvar
BOOT variable = bootflash:packages.conf;
Configuration Register is 0x1822
MANUAL_BOOT variable = yes
BAUD variable = 115200
ENABLE_BREAK variable =
CONFIG_FILE variable =
```

**8.** Remove the existing incorrect boot variable and add the correct one. Issue the **configure terminal** command in order to do this.

```
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#no boot system flash bootflash:packages.conf
Switch(config)#boot system flash bootflash:cat9400packages.conf
Switch(config)#end
```

00:01:31: %SYS-5-CONFIG I: Configured from console by console

9. Save the configuration from running to startup, by issuing the write memory command.

```
Switch#write memory
Building configuration...
Compressed configuration from 4359 bytes to 1730 bytes[OK]
Switch#
```

**10.** Check the boot variable again to make sure it is set properly so that the switch boots up the correct system file on the next reboot. Issue the **show bootvar** command in order to do this.

```
Switch#show bootvar
BOOT variable = bootflash:cat9400packages.conf
Configuration Register is 0x1822
MANUAL_BOOT variable = yes
BAUD variable = 115200
ENABLE_BREAK variable =
CONFIG FILE variable =
```

## **Recover from a Corrupt or Missing Image**

The Supervisor boots into ROMmon mode if the image specified is corrupt or no image file exists. Typically, you should have more than one image in the bootflash: device so that the switch can be recovered.

Complete these steps, in the order given, to facilitate a successful image recovery from ROMmon mode without any valid image.

- 1. Make a console connection to the Supervisor. Typically on a standard Windows operating system platform, configure a HyperTerminal connection directly to COM1 with these settings:
  - 9600 bps
  - Eight data bits
  - No parity
  - One stop bit

Use a rolled male RJ-45 cable to connect from COM1 on the PC to the console port on the Supervisor module. Use a DB-9 connector on the PC, and a HyperTerminal connect window to connect to the Supervisor.

2. Press Enter. If you get the **rommon** > prompt, skip to Step 3. If the switch continuously reboots, press Control-C to prevent autoboot and to get into ROMmon mode.

```
*
* Welcome to ROM Monitor for WS-X4014 System.
* Copyright (c) 2002 by Cisco Systems, Inc.
* All rights reserved.
*****
ROM Monitor Program Version 12.1(11br)EW
Board type 1, Board revision 5
Swamp FPGA revision 14, Dagobah FPGA revision 48
MAC Address : 00-01-96-d9-f6-fe
Ip Address : Not set.
Netmask : Not set.
Gateway : Not set.
TftpServer : Not set.
Main Memory : 256 Mbytes
***** The system will autoboot in 5 seconds *****
Type control-C to prevent autobooting.
!--- Press Control-C.
Autoboot cancelled..... please wait !!!
rommon 1 > [interrupt]
```

**3.** Verify that there is a valid file present in the bootflash: by issuing the **dir bootflash:** command, as this example shows. If you do have any valid file, see the *Recovering from a Continuous Reboot* section of this document for the recovery. Otherwise, continue to the next step.

Issue the set command to display the current environment variables.

```
rommon 3 >set
PS1=rommon ! >
RommonBuild=5
ConfigReg=0x2102
BOOT=bootflash:packages.conf
SkipDiags=0
BSI=0
RET_2_RTS=13:36:46 UTC Tue Aug 15 2000
RET_2_RUTC=966346606
BootStatus=Failure
BootedFileName=bootflash:packages.conf
RommonVer=12.1(11br)EW
```

4. Issue the **unset BOOT** command to clear the current invalid boot variable, which defines the file to load.

rommon 6 >unset BOOT

5. Connect the management port on the Supervisor to the network to access a TFTP server. The Fast Ethernet port (10/100 MGT) on the Supervisor Engine is inoperative in normal operation in current software release. An Ethernet cable plugged into the 10/100 MGT is active only in ROMmon mode

As this example shows, if you plan to connect the 10/100 MGT port to the PC/Router directly, use a straight cable. If you connect to another switch, use a crossover cable.

rommon 7 > !--- Connect the appropriate cable to connect to the network.

Established physical link 100MB Full Duplex Network layer connectivity may take a few seconds

The Management port auto-negotiates speed and duplex with the connected device. Currently, you can not hardcode speed and duplex settings. Since this port is available only in ROMmon mode and for TFTP only, it is not a major concern if the speed and duplex are mismatched due to any potential auto-negotiating problem. The TFTP application has an internal packet loss mechanism to prevent any corruption of the system image being downloaded.

6. Enter the set commands to configure an IP address for the 10/100 MGT port, as this example shows. If the subnet mask is not specified, the IP address would take the default classful mask.

rommon 7> set IP\_ADDRESS=192.168.247.10
rommon 8> set IP\_SUBNET\_MASK=255.255.255.0

7. Enter the **set DEFAULT\_GATEWAY** command to configure the default gateway for the switch to use to get to the TFTP server, as this example shows. The default gateway should be a routing device in the same subnet as the IP address configured in Step 6.

rommon 8> set DEFAULT GATEWAY=192.168.0.1

8. Enter the set command to verify the configurations which have been made.

```
switch: set
BAUD=9600
BOOT=bootflash:cat9k_iosxe.16.06.01.SPA.bin;
BOOTLDR=
BSI=0
CALL_HOME_DEBUG=00000000000
CONFIG_FILE=
CRASHINFO=bootflash:crashinfo_RP_01_00_20170907-054557-UTC
DEFAULT_GATEWAY=172.16.94.193
DEFAULT_ROUTER=172.16.94.193
```

```
DISABLE AUTH=
ENABLE BREAK=yes
EULA ACCEPTED=TRUE
IP ADDRESS=172.16.94.221
IP SUBNET MASK=255.255.255.224
LICENSE BOOT LEVEL=network-advantage+dna-advantage,all:MACALLAN-CHASSIS;
MAC ADDR=E4:AA:5D:59:7A:FC
MANUAL BOOT=no
MODEL NUM=C9400-SUP-1
MOTHERBOARD SERIAL NUM=JAE2124023Z
RANDOM NUM=808994625
RET 2 RCALTS=1504781417
RET 2 RTS=
ROMMON>DISABLE AUTH=
ROMMON AUTOBOOT ATTEMPT=3
SWITCH IGNORE STARTUP CFG=0
SWITCH NUMBER=1
SYSTEM SERIAL NUM=
TEMPLATE=access
TFTP=SERVER=172.16.53.46
```

**9.** Ping the TFTP server to ensure that there is connectivity to the server from the MGT port on the Supervisor Engine. Enter the **ping** *tftp\_server\_ip\_address* command, as this example shows:

rommon 9 >ping 192.168.0.1 Host 192.168.0.1 is alive

If the ping is not successful, troubleshoot the IP connectivity issue from the default gateway to the TFTP server. If the TFTP server is the same subnet, make sure it is configured with the IP address you are pinging.

10. Once the ping to the TFTP server is successful, you can issue the boot tftp://tftp\_server\_ip\_address/image\_path\_and\_file\_name command to specify the system image which is available in the TFTP server to boot the Supervisor.

```
rommon 1>boot tftp://192.168.0.1/cat9k/cat9k_iosxe.2017-08-25_09.41.bin attempting to boot from [tftp://192.168.0.1/cat9k/cat9k iosxe.2017-08-25 09.41.SSA.bin]
```

```
interface : eth0
macaddr : E4:AA:5D:59:7B:44
ip : 192.168.247.10
netmask : 255.255.0.0
gateway : 192.168.0.1
server : 192.168.0.1
file : cat9k/cat9k_iosxe.2017-08-25_09.41.bin
```

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Cisco IOS Software [Everest], Catalyst L3 Switch Software (CAT9K\_IOSXE), Experimental Version 16.6.20170824:202043 [v166\_throttle-/nobackup/srchanna/lock\_166 104] Copyright (c) 1986-2017 by Cisco Systems, Inc. Compiled Thu 24-Aug-17 13:23 by srchanna

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FIPS: Flash Key Check : Begin FIPS: Flash Key Check : End, Not Found, FIPS Mode Not Enabled

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cisco C9407R (X86) processor (revision V00) with 869398K/6147K bytes of memory. Processor board ID FXS1939Q3LZ 144 Gigabit Ethernet interfaces 16 Ten Gigabit Ethernet interfaces 4 Forty Gigabit Ethernet interfaces 32768K bytes of non-volatile configuration memory. 15958516K bytes of physical memory. 11161600K bytes of Bootflash at bootflash:. 1638400K bytes of Crash Files at crashinfo:. 0K bytes of WebUI ODM Files at webui:.

%INIT: waited 0 seconds for NVRAM to be available

Press RETURN to get started!

\*Sep 1 13:20:31.770: %SMART\_LIC-6-AGENT\_READY: Smart Agent for Licensing is initialized \*Sep 1 13:20:37.460: NGWC: not crashing for mcprp\_get\_ecfm\_brain\_mac\_addr \*Sep 1 13:20:39.084: %CRYPTO-4-AUDITWARN: Encryption audit check could not be performed \*Sep 1 13:20:39.125: %SPANTREE-5-EXTENDED SYSID: Extended SysId enabled for type vlan \*Sep 1 13:20:39.350: %LINK-3-UPDOWN: Interface Lsmpi12/3, changed state to up \*Sep 1 13:20:39.351: %LINK-3-UPDOWN: Interface EOBC12/1, changed state to up \*Sep 1 13:20:39.351: %LINEPROTO-5-UPDOWN: Line protocol on Interface LI-Null0, changed state to up \*Sep 1 13:20:39.351: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to down \*Sep 1 13:20:39.351: %LINK-3-UPDOWN: Interface LIIN12/2, changed state to up \*Sep 1 13:20:39.418: %SYS-3-HARIKARI: Process pki app top-level routine exited \*Sep 1 13:20:39.431: %PNP-6-PNP\_DISCOVERY\_STOPPED: PnP Discovery stopped (Startup Config Present) \*Sep 1 13:20:39.441: %ILPOWER-6-SET ILPOWER: Set power allocated to POE to 2780 for slot 0 \*Sep 1 13:20:40.292: %IOSXE MGMTVRF-6-CREATE SUCCESS INFO: Management vrf Mgmt-vrf created with ID 1, ipv4 table-id 0x1, ipv6 table-id 0x1E000001 \*Sep 1 13:20:00.189: %HW PFU-3-PFU IDPROM CORRUPT: R1/0: cmand: The PEM/FM idprom could be read, but is corrupt in slot P17 The system will run without environmental monitoring for this component \*Sep 1 13:20:11.565: %CMRP PFU-6-PWR MGMT OK: R1/0: cmand: Sufficient number of power supplies (4) are installed for power redundancy mode none (excess power 3150 watts). \*Sep 1 13:20:24.203: %CMRP PFU-6-PWR MGMT OK: R1/0: cmand: Sufficient number of power supplies (4) are installed for power redundancy mode none (excess power 1685 watts). \*Sep 1 13:20:35.524: %IOSXE-4-PLATFORM: R1/0: kernel: pci 0000:15:00.1: BAR 2: [??? 0x00000000 flags 0x102000] has bogus alignment \*Sep 1 13:20:35.524: %IOSXE-4-PLATFORM: R1/0: kernel: pci 0000:15:00.1: BAR 4: [??? 0x00000000 flags 0x102000] has bogus alignment \*Sep 1 13:20:35.524: %IOSXE-3-PLATFORM: R1/0: kernel: pci 0000:15:00.0: BAR 4: error updating (0x2021000c != 0x00000c) \*Sep 1 13:20:35.524: %IOSXE-3-PLATFORM: R1/0: kernel: Error: Storage device initialization failed with unknown error! error 0xd2b5c46f, Img version: 0xb3537bb0, lslot 0 \*Sep 1 13:20:36.184: %CMRP PFU-6-PWR MGMT OK: R1/0: cmand: Sufficient number of power supplies (4) are installed for power redundancy mode none (excess power 1555 watts). \*Sep 1 13:20:36.532: %EVENTLIB-3-CPUHOG: R1/0: cmcc: undefined: 5072ms, Traceback=1#dlecae96f48e7b01c7626e7421118715 c:7FF4ACC05000+33410 c:7FF4ACC05000+E0197 tam act2:7FF4B0B0F000+8F1F tam act2:7FF4B0B0F000+F676 tam act2:7FF4B0B0F000+FA28 cmlib\_util:7FF4B289F000+9CF5 cmlib util:7FF4B289F000+19D8B :565477ADE000+4F17E :565477ADE000+4F6BA :565477ADE000+723B9 :565477ADE000+60FEA \*Sep 1 13:20:38.312: %IOSXE-4-PLATFORM: R1/0: kernel: pci 0000:1b:00.1: BAR 2: [??? 0x00000000 flags 0x102000] has bogus alignment \*Sep 1 13:20:38.312: %IOSXE-4-PLATFORM: R1/0: kernel: pci 0000:1b:00.1: BAR 4: [??? 0x00000000 flags 0x102000] has bogus alignment \*Sep 1 13:20:38.312: %IOSXE-3-PLATFORM: R1/0: kernel: pci 0000:1b:00.0: BAR 4: error updating (0x2021000c != 0x00000c) \*Sep 1 13:20:38.312: %IOSXE-3-PLATFORM: R1/0: kernel: Error: Storage device initialization failed with unknown error! error 0xe7da8ea0, Img version: 0x1dfdead4, lslot 2 \*Sep 1 13:20:39.370: %IOSXE-4-PLATFORM: R1/0: kernel: pci 0000:35:00.1: BAR 2: [??? 0x00000000 flags 0x102000] has bogus alignment \*Sep 1 13:20:39.370: %IOSXE-4-PLATFORM: R1/0: kernel: pci 0000:35:00.1: BAR 4: [??? 0x00000000 flags 0x102000] has bogus alignment \*Sep 1 13:20:39.370: %IOSXE-3-PLATFORM: R1/0: kernel: pci 0000:35:00.0: BAR 4: error updating (0x2021000c != 0x00000c) \*Sep 1 13:20:39.370: %IOSXE-3-PLATFORM: R1/0: kernel: Error: Storage device initialization failed with unknown error! error 0x976ff5fb, Img version: 0xc92bf77b, lslot 3 \*Sep 1 13:20:40.348: %EVENTLIB-3-CPUHOG: R1/0: cmcc: undefined: 5392ms, Traceback=1#dlecae96f48e7b01c7626e7421118715 c:7F7461488000+33410 c:7F7461488000+E0197 tam act2:7F7465392000+8F1F tam act2:7F7465392000+F8BF tam act2:7F7465392000+FA28 cmlib util:7F7467122000+9CF5 cmlib util:7F7467122000+19D8B :563133282000+4F17E :563133282000+4F6BA :563133282000+723B9 :563133282000+60FEA

\*Sep 1 13:20:40.436: %EVENTLIB-3-CPUHOG: R1/0: cmcc: undefined: 5509ms, Traceback=1#dlecae96f48e7b01c7626e7421118715 c:7F97C4C70000+33410 pthread:7F97C5014000+100B0 syshw:7F97D0F6F000+FCE1 syshw:7F97D0F6F000+FE58 :562F95125000+54DAE :562F95125000+81565 :562F95125000+425F6 :562F95125000+732ED cm oir:7F97CC4EF000+28A55 cmcc msgs:7F97CB280000+91422 cmcc msgs:7F97CB280000+91210 \*Sep 1 13:20:40.490: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to down \*Sep 1 13:20:44.086: %CMEM-3-SENSOR INIT FAILED: R1/0: cmand: Sensor (Temp: outlet) initialization failed due to No such file or directory. \*Sep 1 13:20:44.513: %SYS-2-PRIVCFG\_DECRYPT: Successfully apply the private config file \*Sep 1 13:20:44.969: %SW VLAN-6-VTP DOMAIN NAME CHG: VTP domain name changed to zdf-acc. \*Sep 1 13:20:44.973: %SYS-5-CONFIG I: Configured from memory by console \*Sep 1 13:20:44.975: %PARSER-4-BADCFG: Unexpected end of configuration file. \*Sep 1 13:20:44.990: %IOSXE OIR-6-REMSPA: SPA removed from subslot 1/0, interfaces disabled \*Sep 1 13:20:44.990: %IOSXE OIR-6-REMSPA: SPA removed from subslot 3/0, interfaces disabled \*Sep 1 13:20:44.990: %IOSXE OIR-6-REMSPA: SPA removed from subslot 4/0, interfaces disabled \*Sep 1 13:20:44.991: %IOSXE OIR-6-REMSPA: SPA removed from subslot 5/0, interfaces disabled \*Sep 1 13:20:44.991: %IOSXE OIR-6-REMSPA: SPA removed from subslot 6/0, interfaces disabled \*Sep 1 13:20:45.010: %SPA OIR-6-OFFLINECARD: SPA (C9400-LC-48T) offline in subslot 1/0 \*Sep 1 13:20:45.014: %SPA OIR-6-OFFLINECARD: SPA (C9400-SUP-1) offline in subslot 3/0 \*Sep 1 13:20:46.458: %SYS-6-BOOTTIME: Time taken to reboot after reload = 303 seconds \*Sep 1 13:20:46.939: %LINK-5-CHANGED: Interface Vlan1, changed state to administratively down \*Sep 1 13:20:53.578: %IOSXE OIR-6-ONLINECARD: Card (fp) online in slot F1 \*Sep 1 13:20:58.096: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to up \*Sep 1 13:20:59.099: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up \*Sep 1 13:20:59.104: %CRYPTO-6-ISAKMP ON OFF: ISAKMP is OFF \*Sep 1 13:21:15.745: %SPA OIR-6-ONLINECARD: SPA (C9400-SUP-1) online in subslot 4/0 \*Sep 1 13:21:15.752: %TRANSCEIVER-6-INSERTED: R1/0: iomd: transceiver module inserted in TenGigabitEthernet4/0/1 \*Sep 1 13:21:15.768: %TRANSCEIVER-6-INSERTED: R1/0: iomd: transceiver module inserted in TenGigabitEthernet4/0/3 \*Sep 1 13:21:15.778: %SPA OIR-6-ONLINECARD: SPA (C9400-SUP-1) online in subslot 3/0 \*Sep 1 13:21:15.783: %TRANSCEIVER-6-INSERTED: R1/0: iomd: transceiver module inserted in TenGigabitEthernet3/0/1 \*Sep 1 13:21:15.790: %TRANSCEIVER-6-INSERTED: R1/0: iomd: transceiver module inserted in TenGigabitEthernet3/0/2 \*Sep 1 13:21:17.543: %SPA OIR-6-ONLINECARD: SPA (C9400-LC-48T) online in subslot 1/0 \*Sep 1 13:21:20.261: %SPA OIR-6-ONLINECARD: SPA (C9400-LC-48U) online in subslot 6/0 \*Sep 1 13:21:20.353: %SPA OIR-6-ONLINECARD: SPA (C9400-LC-48U) online in subslot 5/0 \*Sep 1 13:21:33.591: %LINK-3-UPDOWN: Interface GigabitEthernet1/0/47, changed state to up \*Sep 1 13:21:33.813: %LINK-3-UPDOWN: Interface GigabitEthernet1/0/16, changed state to up \*Sep 1 13:21:34.591: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/47, changed state to up \*Sep 1 13:21:34.813: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/16, changed state to up \*Sep 1 13:21:36.449: %LINK-3-UPDOWN: Interface GigabitEthernet5/0/1, changed state to up \*Sep 1 13:21:36.461: %LINK-3-UPDOWN: Interface GigabitEthernet5/0/9, changed state to up \*Sep 1 13:21:36.469: %LINK-3-UPDOWN: Interface GigabitEthernet5/0/13, changed state

```
to up
*Sep 1 13:21:36.477: %LINK-3-UPDOWN: Interface GigabitEthernet5/0/17, changed state
to up
*Sep 1 13:21:36.487: %LINK-3-UPDOWN: Interface GigabitEthernet5/0/24, changed state
to up
     1 13:21:36.494: %LINK-3-UPDOWN: Interface GigabitEthernet5/0/25, changed state
*Sep
to up
*Sep 1 13:21:36.504: %LINK-3-UPDOWN: Interface GigabitEthernet5/0/33, changed state
to up
*Sep 1 13:21:36.590: %LINK-3-UPDOWN: Interface GigabitEthernet5/0/37, changed state
to up
*Sep 1 13:21:37.449: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet5/0/1, changed state to up
*Sep 1 13:21:37.462: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet5/0/9, changed state to up
*Sep 1 13:21:37.469: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet5/0/13, changed state to up
*Sep 1 13:21:37.477: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet5/0/17, changed state to up
*Sep 1 13:21:37.488: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet5/0/24, changed state to up
*Sep 1 13:21:37.494: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet5/0/25, changed state to up
*Sep 1 13:21:37.504: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet5/0/33, changed state to up
*Sep 1 13:21:37.591: %LINEPROTO-5-UPDOWN: Line protocol on Interface
GigabitEthernet5/0/37, changed state to up
```

**Note** The IP address of the TFTP server and the file has already been preselected since you used the information for the transfer of the image to the bootflash:. If you would like to change it, type the new IP address or image name. Otherwise, press Enter and the preselected information is used.

The system image has been copied. Issue the **dir bootflash:** command to note the file in the bootflash:.

**11.** Enter the **verify** command to verify the integrity of the downloaded file. If the verification fails, you have to download the file again.

- **12.** Enter the **show bootvar** command to check the current boot variable.
- 13. Remove any existing incorrect boot variables and add the correct one.
- **14.** Enter the **write memory** command to save the configuration from running to startup.
- **15.** Use the **show bootvar** command to check the boot variable again to ensure it is set correctly, so that the switch boots up the correct system file on the next reboot.