```
Reading full image into memory......................done
Nova Bundle Image
--------------------------------------
Kernel Address : 0x6042e5cc
Kernel Size : 0x318261/3244641
Initramfs Address : 0x60746830
Initramfs Size : 0xdb0fb9/14356409
Compression Format: .mzip

Bootable image at @ ram:0x6042e5cc
Bootable image segment 0 address range [0x81100000, 0x81b80000] is in range [0x80180000, 0x90000000].
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
File "sda9:c3850-recovery.bin" uncompressed and installed, entry point: 0x811060f0
Loading Linux kernel with entry point 0x811060f0 ...
Bootloader: Done loading app on core_mask: 0xf

### Launching Linux Kernel (flags = 0x5)


Initiating Emergency Installation of bundle
tftp://192.0.2.47/cat3k/cat3k_caa-universalk9.SSA.03.12.02.EZP.150-12.02.EZP.150-12.02.EZP.bin


Downloading bundle
tftp://192.0.2.47/cat3k/cat3k_caa-universalk9.SSA.03.12.02.EZP.150-12.02.EZP.150-12.02.EZP.bin...
Validating bundle
tftp://192.0.2.47/cat3k/cat3k_caa-universalk9.SSA.03.12.02.EZP.150-12.02.EZP.150-12.02.EZP.bin...
Installing bundle
tftp://192.0.2.47/cat3k/cat3k_caa-universalk9.SSA.03.12.02.EZP.150-12.02.EZP.150-12.02.EZP.bin...
Verifying bundle
tftp://192.0.2.47/cat3k/cat3k_caa-universalk9.SSA.03.12.02.EZP.150-12.02.EZP.150-12.02.EZP.bin...
Package cat3k_caa-base..pkg is Digitally Signed
Package cat3k_caa-drivers.SPA.03.02.00.SE.pkg is Digitally Signed
Package cat3k_caa-infra.SPA.03.02.00.SE.pkg is Digitally Signed
Package cat3k_caa-iosd-universalk9.SPA.03.02.00.SE.pkg is Digitally Signed
Package cat3k_caa-platform.SPA.03.02.00.SE.pkg is Digitally Signed
Package cat3k_caa-wcm.SPA.03.02.00.SE.pkg is Digitally Signed
Preparing flash...
Syncing device...
Emergency Install successful... Rebooting
Restarting system.


Booting...(use DDR clock 667 MHz)Initializing and Testing RAM +++@@@@####...++@@++@@++@@++@
```

Related Topics

Recovering from a Lost or Forgotten Password

The default configuration for the switch allows an end user with physical access to the switch to recover from a lost password by interrupting the boot process during power-on and by entering a new password. These recovery procedures require that you have physical access to the switch.

Note   On these switches, a system administrator can disable some of the functionality of this feature by allowing an end user to reset a password only by agreeing to return to the default configuration. If you are an end user trying to reset a password when password recovery has been disabled, a status message shows this during the recovery process.

SUMMARY STEPS

1. Connect a terminal or PC to the switch.
2. Set the line speed on the emulation software to 9600 baud.
3. Power off the standalone switch or the entire switch stack.
4. Reconnect the power cord to the or the active switch. Within 15 seconds, press the **Mode** button while the System LED is still flashing green. Continue pressing the **Mode** button until all the system LEDs turn on and remain solid; then release the **Mode** button.
5. After recovering the password, reload the switch or the active switch .
6. Power on the remaining switches in the stack.

DETAILED STEPS

Step 1   Connect a terminal or PC to the switch.

   • Connect a terminal or a PC with terminal-emulation software to the switch console port. If you are recovering the password for a switch stack, connect to the console port of the active switch or

   • Connect a PC to the Ethernet management port. If you are recovering the password for a switch stack, connect to the Ethernet management port of a stack member .

Step 2   Set the line speed on the emulation software to 9600 baud.

Step 3   Power off the standalone switch or the entire switch stack.

Step 4   Reconnect the power cord to the or the active switch. Within 15 seconds, press the **Mode** button while the System LED is still flashing green. Continue pressing the **Mode** button until all the system LEDs turn on and remain solid; then release the **Mode** button.

   •

```
Switch:
Xmodem file system is available.
Base ethernet MAC Address: 20:37:06:4d:e9:80
Verifying bootloader digital signature.


The system has been interrupted prior to loading the operating
system software, console will be reset to 9600 baud rate.
```

   proceed to the *Procedure with Password Recovery Enabled* section, and follow the steps.

Step 5   After recovering the password, reload the switch or the active switch .

On a switch:

```
Switch> reload
Proceed with reload? [confirm] y
```

On the active switch:

```
Switch> reload slot <stack-active-member-number>
Proceed with reload? [confirm] y
```

Step 6 Power on the remaining switches in the stack.

Related Topics

Procedure with Password Recovery Enabled

If the password-recovery operation is enabled, this message appears:

Step 1 Initialize the flash file system.

```
Device: flash_init
```

Step 2 Ignore the startup configuration with the following command:

```
Device: SWITCH_IGNORE_STARTUP_CFG=1
```

Step 3 Boot the switch with the *packages.conf* file from flash.

```
Device: boot flash:packages.conf
```

Step 4 Terminate the initial configuration dialog by answering **No**.

```
Would you like to enter the initial configuration dialog? [yes/no]: No
```

Step 5 At the switch prompt, enter privileged EXEC mode.

```
Device> enable
Switch#
```

Step 6 Copy the startup configuration to running configuration.

```
Device# copy startup-config running-config Destination filename [running-config]?
```

Press Return in response to the confirmation prompts. The configuration file is now reloaded, and you can change the password.

Step 7 Enter global configuration mode and change the **enable** password.

```
Device# configure terminal
Device(config)#
```

Step 8 Write the running configuration to the startup configuration file.

```
Device# copy running-config startup-config
```

Step 9 Confirm that manual boot mode is enabled.

```
Device# show boot

 BOOT variable = flash:packages.conf;
 Manual Boot = yes
 Enable Break = yes
```

Step 10 Reload the device.

```
Device# reload
```

Step 11 Return the Bootloader parameters (previously changed in Steps 2 and 3) to their original values.

```
Device: switch: SWITCH_IGNORE_STARTUP_CFG=0
```

Step 12 Boot the device with the *packages.conf* file from flash.

```
Device: boot flash:packages.conf
```

Step 13 After the device boots up, disable manual boot on the device.

```
Device(config)# no boot manual
```

Procedure with Password Recovery Disabled

If the password-recovery mechanism is disabled, this message appears:

```
The password-recovery mechanism has been triggered, but
is currently disabled.  Access to the boot loader prompt
through the password-recovery mechanism is disallowed at
this point.  However, if you agree to let the system be
reset back to the default system configuration, access
```

```
to the boot loader prompt can still be allowed.

Would you like to reset the system back to the default configuration (y/n)?
```

⚠

Caution   Returning the switch to the default configuration results in the loss of all existing configurations. We recommend that you contact your system administrator to verify if there are backup switch and VLAN configuration files.

- If you enter **n** (no), the normal boot process continues as if the **Mode** button had not been pressed; you cannot access the boot loader prompt, and you cannot enter a new password. You see the message:

```
Press Enter to continue........
```

- If you enter **y** (yes), the configuration file in flash memory and the VLAN database file are deleted. When the default configuration loads, you can reset the password.

Step 1   Choose to continue with password recovery and delete the existing configuration:

```
Would you like to reset the system back to the default configuration (y/n)? Y
```

Step 2   Display the contents of flash memory:

```
Device: dir flash:
```

The switch file system appears.

```
Directory of flash:/
.
.
.i'
15494  drwx       4096   Jan 1 2000 00:20:20 +00:00  kirch
15508  -rw-  258065648   Sep 4 2013 14:19:03 +00:00
cat3k_caa-universalk9.SSA.03.12.02.EZP.150-12.02.EZP.150-12.02.EZP.bin
162196684
```

Step 3   Boot up the system:

```
Device: boot
```

You are prompted to start the setup program. To continue with password recovery, enter **N** at the prompt:

```
Continue with the configuration dialog? [yes/no]: N
```

Step 4   At the switch prompt, enter privileged EXEC mode:

```
Device> enable
```

Step 5   Enter global configuration mode:

```
Device# configure terminal
```

Step 6   Change the password:

```
Device(config)# enable secret password
```

The secret password can be from 1 to 25 alphanumeric characters, can start with a number, is case sensitive, and allows spaces but ignores leading spaces.

Step 7   Return to privileged EXEC mode:

```
Device(config)# exit
Device#
```

Note   Before continuing to Step 9, power on any connected stack members and wait until they have completely initialized.

Step 8   Write the running configuration to the startup configuration file:

```
Device# copy running-config startup-config
```

The new password is now in the startup configuration.

Step 9   You must now reconfigure the switch. If the system administrator has the backup switch and VLAN configuration files available, you should use those.

Preventing Switch Stack Problems

To prevent switch stack problems, you should do the following:

- Make sure that the switches that you add to or remove from the switch stack are powered off. For all powering considerations in switch stacks, see the "Switch Installation" chapter in the hardware installation guide.

- Press the **Mode** button on a stack member until the Stack mode LED is on. The last two port LEDs on the switch should be green. Depending on the switch model, the last two ports are either 10/100/1000 ports or small form-factor pluggable (SFP) module. If one or both of the last two port LEDs are not green, the stack is not operating at full bandwidth.

- We recommend using only one CLI session when managing the switch stack. Be careful when using multiple CLI sessions to the active switch . Commands that you enter in one session are not displayed in the other sessions. Therefore, it is possible that you might not be able to identify the session from which you entered a command.

- Manually assigning stack member numbers according to the placement of the switches in the stack can make it easier to remotely troubleshoot the switch stack. However, you need to remember that the switches have manually assigned numbers if you add, remove, or rearrange switches later. Use the **switch** *current-stack-member-number* **renumber** *new-stack-member-number* global configuration command to manually assign a stack member number.