

ROMmon Recovery for the Cisco 800 Series Router

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Introduction

This document describes how to recover a Cisco 800 series router if you are blocked in TinyRom (the boot# prompt).

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

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

ROMmon Recovery Procedure

First, determine whether you still have a valid Cisco IOS® Software image in Flash.

Use the **list** command to display the files stored in Flash:

```
boot#
boot# list
Status      Size      Dev      Name
-----
-----    48K      flash    TinyROM-1.0(2)
-----    48K      flash    TinyROM-1.0(3)
--Dr-x     2600K     flash    c800-y6-mw.120-5.T
---r-x     2863K     flash    c800-y6-mw.121-5
```

```
!--- Here it is

          5184K free      8192K total
boot#
```

The image is valid if it has a status of "**---r-x**".

If the "x" is not present, the image is probably corrupted, and needs to be deleted. Use the **delete** *[filename]* command to mark it as deleted, and the **erase** command to effectively delete all files marked deleted.

If "D" is present, the image has been marked deleted. You can restore a deleted image using the **undelete** *[filename]* command.

Note: The eighth time you delete a particular file, the file is permanently deleted, and the **undelete** *[filename]* command no longer works for that filename.

The following sections discuss these scenarios:

- There is no valid Cisco IOS Software image in Flash.
- There is a valid Cisco IOS Software image in Flash.

No Valid Cisco IOS Software Image in Flash

Without a valid Cisco IOS Software image in Flash, you have four different options:

- Booting from a TFTP server. This allows you to boot your router, but does not install a valid Cisco IOS Software image in Flash.
- Downloading the image via TFTP.
- Downloading the image through the console port via Xmodem.
- Downloading the image through the console port without Xmodem.

If you have booted from a TFTP server, your router should now be operational, even though you do not have a Cisco IOS Software image in Flash.

Note: If your router is rebooted without being connected to the TFTP server, you will end up in TinyROM again.

If you have downloaded an image, you should now have a valid Cisco IOS Software image in Flash, but you still have to boot it. To do so, follow the procedure in the Valid Cisco IOS Software Image in Flash section.

Valid Cisco IOS Software Image in Flash

With a valid Cisco IOS Software image in Flash, all you need to do is, set the variables **boot-action**, **file-name**, and **ios-conf** to their correct values like this:

```
boot# set boot-action=?
-----
set boot-action      ={flash|tftp|none}

Default boot action to take on power up:
flash => run file-name from flash.
tftp  => tftp file-name (script or image) into RAM, then run it.
none  => enter CLI and wait for commands from user
-----

boot# set boot-action=flash
boot# set file-name=c800-y6-mw.121-5
```

!--- Or, whatever is your valid Cisco IOS Software image filename.

```
boot# set ios-conf=0x2102
```

Save the new values, and then boot the router using the **boot** command:

```
boot# save
save: succeeded (0 seconds).
boot#
boot# boot
```

```
Booting "c800-y6-mw.121-5" ...,
      Restricted Rights Legend
```

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