

# 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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## Related Information

- [Cisco Router Support](#)
- [Technical Support – Cisco Systems](#)

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