

Managing Configuration Files in ROM Monitor

This chapter provides information about managing configuration files in the router.

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Information about Configuration Files

Cisco IOS XR software creates two types of configuration files—the administration configuration file and the default secure domain router (SDR) configuration files. These configuration files are stored in the following locations:

- There is only one administration configuration file, which is stored on the RSP and contains system-wide configurations for items such as SDR name and node inventory.
- There is only one SDR configuration file in Cisco ASR 9000 Series Router, which is stored on the RSP to specify the parameters for routing, interfaces, SDR usernames, and other SDR-specific configurations.

The Cisco ASR 9000 Series Router contains only one SDR (the default SDR). In Cisco IOS-XR software, SDRs are a means of dividing a single physical system into multiple logically separated routers. Cisco ASR 9000 Series Aggregation Services Routers are single-shelf routers that support only one SDR per shelf.

For more information on SDRs and admin plane configuration, see the *Configuring Secure Domain Routers* on Cisco IOS XR Software module of the System Management Configuration Guide for Cisco ASR 9000 Series Routers.

The following sections describe ways to manage the use of configuration files from ROM Monitor:



Caution

The default configuration should be sufficient for most situations. The options described in the following sections are for rare cases in which an alternative configuration is required. Use of these options can result in system errors or downtime. Consult Cisco technical support before using these options.

Specifying an Alternative Administration Configuration

The administration configuration stores system-wide configurations such as the SDR name and node inventory for the entire system. This is separate from the default-SDR configuration that stores routing and interface configurations.



Caution

The default committed administration configuration should be sufficient for most situations. The option described in this section is for rare cases when an alternative admin configuration is required. Use of this method can result in system errors or downtime.

Specifying a Temporary Alternative Administrative Configuration with the -o Boot Option

This mode of administrative configuration with the **-o boot** option is temporary in nature. After this boot option is set, this mode allows the router to boot from this alternative configuration, and the configuration specified in this configuration file becomes part of the running and persistent configuration.



Note

When the router boots with the external configuration specified by the **-o** option, the system loses the default configuration. The default configuration is completely replaced with this alternative configuration.

To specify a temporary administration configuration file with the **-o boot** option, use the following procedure. With this method, the specified configuration file is used for a single router boot. If the RSP is reset again, the permanent configuration file is used.

SUMMARY STEPS

- 1. Place the RSP and the standby RSP in ROM Monitor mode.
- 2. confreg
- **3.** Enter boot type as 0.
- 4. reset
- 5. confreg
- **6.** Enter boot type as 2.
- **7.** set
- **8. boot** *image* **–o** *config-file-path*
- 9. confreg
- **10.** Enter boot type as 2.
- 11. reset

	Command or Action	Purpose
Step 1	Place the RSP and the standby RSP in ROM Monitor mode.	

	Command or Action	Purpose
Step 2	<pre>confreg Example: rommon B1 > confreg Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type:</pre>	Sets the configuration register of the standby RSP to ROM Monitor mode so that the standby RSP does not take control. Enter the confreg command at the ROM Monitor mode prompt to set the configuration register to ROM Monitor mode. You can also change the console baud rate, boot characteristics, boot type configuration settings, and enable diagnostic mode at the ROM Monitor mode. Note The configuration register is not an environment variable like TURBOBOOT. Do not enter an equal sign when entering the confreg command.
Step 3	0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 0 Enter boot type as 0.	Sets the boot type as 0 to enable ROM Monitor mode during the next system boot.
	<pre>Example: enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 0</pre>	, and the second
Step 4	<pre>reset Example: rommon B2> reset</pre>	Makes the configuration register settings for the standby RSP card effective.
Step 5	<pre>confreg Example: rommon B1 > confreg</pre>	Sets the active RSP configuration register to EXEC mode. You can also change the console baud rate, boot characteristics, boot type configuration settings, and enable diagnostic mode at the ROM Monitor mode.
	Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2	
Step 6	Enter boot type as 2. Example: enter boot type:	Sets the boot type as 2 to enable MBI validation mode or the EXEC mode during the next system boot.

	Command or Action	Purpose
	<pre>0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	
Step 7	set	Displays the current environment variable settings.
	Example: rommon B2> set	Note The filename is set in the BOOT variable.
Step 8	<pre>boot image -o config-file-path Example: rommon B3>boot tftp://223.255.254.254/images/comp-asr9k-mini.vm -o /disk1:/cfgarchives/admingold.conf</pre>	Boots the router. Replace image with the filename listed in the boot variable, and replace config-file-path with the path and filename for the configuration file. Note The pathname should be a valid UNIX pathname (a slash [/] must be included after the device: "disk1:/").
Step 9	confreg Example:	Sets the configuration register of the standby RSP to EXEC mode. You can also change the console baud rate, boot characteristics, boot type configuration settings and enable
	rommon B3> confreg Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n	diagnostic mode at the ROM Monitor mode.
	<pre>change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	
Step 10	Enter boot type as 2. Example:	Set the boot type as 2 for standy RSP to enable MBI validation mode or the EXEC mode during the next system boot.
	<pre>enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	
Step 11	reset Example: rommon B5 >reset	Resets the standby RSP so that the new setting can take effect and the standby RSP card becomes operational.

Specifying a Permanent Alternative Administrative Configuration File with the IOX ADMIN CONFIG FILE= Variable

This mode of alternative administrative configuration with the IOX_ADMIN_CONFIG_FILE= variable is permanent in nature. After this variable is set, this mode allows the router to always boot from this alternative configuration, and the system does not revert to the default committed configuration on the next system reload.



Note

When the router boots with the external configuration specified by the IOX_ADMIN_CONFIG_FILE= variable, the system loses the default configuration. The default configuration is completely replaced with this alternative configuration.

To permanently change the location of the default administration configuration file, specify the filename and directory path in the IOX_ADMIN_CONFIG_FILE= environment variable while in ROM Monitor mode. Specifying the environment variable forces the use of the specified file for all boots while this variable is set.

SUMMARY STEPS

- 1. Place the RSP and the standby RSP in ROM Monitor mode.
- 2. confreg
- **3.** Enter the boot type as 0.
- 4. reset
- 5. confreg
- **6.** Enter the boot type as 2.
- **7.** set
- **8. IOX_ADMIN_CONFIG_FILE**=*drive*:*path/file*
- 9. sync
- **10.** boot
- 11. confreg
- **12.** Enter boot type as 2.
- 13. reset

	Command or Action	Purpose
Step 1	Place the RSP and the standby RSP in ROM Monitor mode.	
Step 2	<pre>confreg Example: rommon B1 > confreg Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600</pre>	Sets the configuration register of the standby RSP to ROM Monitor mode so that the standby RSP does not take control. Enter the confreg command at the ROM Monitor mode prompt to set the configuration register to ROM Monitor mode. You can also change the console baud rate, boot characteristics, boot type configuration settings, and enable diagnostic mode at the ROM Monitor mode.

	Command or Action	Purpose
	boot: the ROM Monitor do you wish to change the configuration? y/n [n] y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 0	Note The configuration register is not an environment variable like TURBOBOOT. Do not enter an equal sign when entering the confreg command.
Step 3	Enter the boot type as 0. Example: enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 0	Sets the boot type as 0 to enable ROM Monitor mode during the next system boot.
Step 4	reset Example: rommon B3> reset	Makes the configuration register settings for the standby RSP card effective.
Step 5	<pre>confreg Example: rommon B1 > confreg Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n] y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	Sets the active RSP configuration register to EXEC mode. You can also change the console baud rate, boot characteristics, boot type configuration settings and enable diagnostic mode at the ROM Monitor mode.
Step 6	Enter the boot type as 2. Example: enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2	Sets the boot type as 2 for the active RSP to enable MBI validation mode or the EXEC mode during the next system boot.
Step 7	set	Displays the current environment variable settings.
	Example:	Note The filename is set in the IOX_ADMIN_CONFIG_FILE variable.

	Command or Action	Purpose
	rommon B2> set	
Step 8	IOX_ADMIN_CONFIG_FILE=drive:path/file Example:	Sets the IOX_ADMIN_CONFIG_FILE variable to specify the absolute path of a different admin configuration file.
	rommon B3> IOX_ADMIN_CONFIG_FILE=/disk2:/cfgarchives/admingold.conf	Note The IOX_ADMIN_CONFIG_FILE variable is overridden by the boot command when it is entered with the -o option.
Step 9	sync	Saves the changes.
	Example:	
	rommon B4> sync	
Step 10	boot	Boots the router.
	Example:	
	rommon B5> boot	
Step 11	confreg	Sets the configuration register of the standby RSP to EXEC
	Example:	mode. You can also change the console baud rate, boot characteristics, boot type configuration settings and enable
	rommon B2 > confreg	diagnostic mode at the ROM Monitor mode.
	Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2	
Step 12	Enter boot type as 2.	Sets the boot type as 2 for the standy RSP to enable MBI validation mode or the EXEC mode during the next system
	Example:	boot.
	<pre>enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	
Step 13	reset	Resets the standby RSP so that the new setting takes effect
	Example:	and the standby RSP becomes operational.
	rommon B2 > reset	

Specifying an Alternative SDR Configuration

You can specify an alternative configuration for the default-SDR from ROM Monitor mode, using the methods described in the following sections. These procedures are run from the RSP card for the default-SDR.



Note

For more information on SDR, see the *Configuring Secure Domain Routers on Cisco IOS XR Software* module of *System Management Configuration Guide for Cisco ASR 9000 Series Routers* .



Caution

The default committed SDR configuration should be sufficient for most situations. The option described in this section is for rare cases when an alternative SDR configuration is required. Use of this method can result in system errors or downtime.

Specifying a Temporary SDR Configuration File with the -a Boot Option

This mode of SDR configuration with the **-a** boot option is temporary in nature. Once this boot option is set, this mode allows the router to boot from this alternative configuration and the configuration specified in this configuration file becomes part of the running and persistent configuration.



Note

When the router boots with the external configuration specified by the **-a** option, the system loses the default configuration. The default configuration is completely replaced with this alternative configuration.

To specify a temporary SDR configuration file with the **-a** boot option, use the following procedure. With this method, the specified configuration file is used for a single router boot. If the DSC is reset again, the permanent configuration file is used.

SUMMARY STEPS

- 1. Place the RSP and the standby RSP in ROM Monitor mode.
- 2. confreg
- **3.** Enter boot type as 0.
- 4. reset
- 5. confreg
- **6.** Enter boot type as 2.
- **7**. set
- **8. boot** *image* **–a** *config-file-path*
- 9. confreg
- **10.** Enter boot type as 2.
- 11. reset

	Command or Action	Purpose
Step 1	Place the RSP and the standby RSP in ROM Monitor mode.	
Step 2	<pre>confreg Example: rommon B1 > confreg Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 0</pre>	Sets the configuration register of the standby RSP to ROM Monitor mode so that the standby RSP does not take control. Enter the confreg command at the ROM Monitor mode prompt to set the configuration register to ROM Monitor mode. You can also change the console baud rate, boot characteristics, boot type configuration settings and enable diagnostic mode at the ROM Monitor mode. Note The configuration register is not an environment variable like TURBOBOOT. Do not enter an equal sign when entering the confreg command.
Step 3	Enter boot type as 0. Example: enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 0	Sets the boot type as 0 to enable ROM Monitor mode during the next system boot.
Step 4	reset Example: rommon B2> reset	Makes the configuration register settings for the standby RSP card effective.
Step 5	<pre>confreg Example: rommon B1 > confreg Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor</pre>	Sets the active RSP configuration register to EXEC mode. You can also change the console baud rate, boot characteristics, boot type configuration settings, and enable diagnostic mode at the ROM Monitor mode.

	Command or Action	Purpose
	2 = MBI Validation Boot Mode [0]: 2	
Step 6	Enter boot type as 2. Example: enter boot type:	Sets the boot type as 2 to enable MBI validation mode or the EXEC mode during the next system boot.
Step 7	0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2	Displays the current environment variable settings.
oteh 1		
	Example:	Note The filename is set in the BOOT variable.
	rommon B2> set	
Step 8	boot image -a config-file-path	Boots the router. Replace <i>image</i> with the filename listed
	Example:	in the boot variable, and replace <i>config-file-path</i> with the path and filename for the configuration file.
	<pre>rommon B3> boot tftp://223.255.254.254/images/comp-asr9k-mini.vm -a /disk1:/cfgarchives/SDRgold.conf</pre>	The pathname should be a valid UNIX pathname (a slash [/] must be included after the device: "disk1:/").
Step 9	confreg Example:	Sets the configuration register of the standby RSP to EXEC mode. You can also change the console baud rate, boot
	<pre>rommon B3> confreg Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	characteristics, boot type configuration settings, and enable diagnostic mode at the ROM Monitor mode.
Step 10	Enter boot type as 2.	Sets the boot type as 2 for standy RSP to enable MBI
	Example:	validation mode or the EXEC mode during the next system boot.
	<pre>enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	
Step 11	reset	Resets the standby RSP card so that the new setting can
	Example:	take effect and the standby RSP card becomes operational.

Command or Action	Purpose
rommon B5 > reset	

Specifying a Permanent SDR Configuration File with the IOX_CONFIG_FILE= Variable

This mode of alternative SDR configuration with the IOX_CONFIG_FILE= variable is permanent in nature. Once this variable is set, this mode allows the router to always boot from this alternative configuration. The system does not revert to the default committed configuration on the next system reload.



Note

When the router boots with the external configuration specified by the IOX_CONFIG_FILE= variable, the system loses the default configuration. The default configuration is completely replaced with this alternative configuration.

To permanently change the location of the default configuration file for an SDR, specify the filename and directory path in the IOX_CONFIG_FILE= environment variable while in ROM Monitor mode. Specifying the environment variable forces the use of the specified file for all boots while this variable is set.

SUMMARY STEPS

- 1. Place the RSP and the standby RSP in ROM Monitor mode.
- 2. confreg
- **3.** Enter the boot type as 0.
- 4. reset
- 5. confreg
- **6.** Enter the boot type as 2.
- **7.** set
- **8. IOX_CONFIG_FILE**=*drive*:*path/file*
- 9. sync
- 10. boot
- 11. confreg
- **12.** Enter boot type as 2.
- 13. reset

	Command or Action	Purpose
Step 1	Place the RSP and the standby RSP in ROM Monitor mode.	
Step 2	confreg	Sets the configuration register of the standby RSP to ROM
	Example:	Monitor mode so that the standby RSP does not take control. Enter the confreg command at the ROM Monitor
	rommon B1 > confreg	mode prompt to set the configuration register to ROM Monitor mode. You can also change the console baud rate,

	Command or Action	Purpose
	Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 0	boot characteristics, boot type configuration settings, and enable diagnostic mode at the ROM Monitor mode. Note The configuration register is not an environment variable like TURBOBOOT. Do not enter an equal sign when entering the confreg command.
Step 3	Enter the boot type as 0. Example: enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 0	Sets the boot type as 0 to enable ROM Monitor mode during the next system boot.
Step 4	reset Example: rommon B3> reset	Makes the configuration register settings for the standby RSP card effective.
Step 5	<pre>confreg Example: rommon B1 > confreg Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	Sets the active RSP configuration register to EXEC mode. You can also change the console baud rate, boot characteristics, boot type configuration settings and enable diagnostic mode at the ROM Monitor mode.
Step 6	Enter the boot type as 2. Example: enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2	Sets the boot type as 2 for the active RSP to enable MBI validation mode or the EXEC mode during the next system boot.

	Command or Action	Purpose
Step 7	set Example:	Displays the current environment variable settings. Note The filename is set in the IOX_CONFIG_FILE variable.
	rommon B3> set	IOA_CONFIG_FILE variable.
Step 8	IOX_CONFIG_FILE=drive:path/file Example:	Sets the IOX_CONFIG_FILE variable to specify the absolute path of a different SDR configuration file.
	<pre>rommon B1> IOX_CONFIG_FILE=/disk2:/cfgarchives/ admingold.conf</pre>	Note The IOX_CONFIG_FILE variable is overridden by the boot command when it is entered with the -a option.
Step 9	sync	Saves the changes.
	Example:	
	rommon B1> sync	
Step 10	boot	Boots the router.
	Example:	
	rommon B1> boot	
Step 11	confreg	Sets the configuration register of the standby RSP to execute the standby R
	Example:	mode. You can also change the console baud rate, boot characteristics, boot type configuration settings and enable diagnostic mode at the ROM Monitor mode.
	rommon B2 > confreg	and the state of t
	Configuration Summary (Virtual Configuration Register: 0x1920)	
	enabled are:	
	console baud: 9600 boot: the ROM Monitor	
	do you wish to change the configuration? y/n [n]:	
	enable "diagnostic mode"? y/n [n]: n	
	change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y	
	<pre>enter boot type: 0 = ROM Monitor</pre>	
	2 = MBI Validation Boot Mode [0]: 2	
Step 12	Enter boot type as 2. Example:	Sets the boot type as 2 for the standy RSP to enable MBI validation mode or the EXEC mode during the next system boot.
	<pre>enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	

	Command or Action	Purpose
Step 13	reset	Resets the standby RSP so that the new setting takes effect
	Example:	and the standby RSP becomes operational.
	rommon B2 > reset	

Specifying an Alternate Storage Location for Configuration Files

To change the default location where the configuration files for an SDR are saved (committed), specify the location and directory path in the IOX_CONFIG_MEDIUM= environment variable while in ROM Monitor mode. Specifying the environment variable forces the use of the specified location while this variable is set.

SUMMARY STEPS

- 1. Place the RSP and the standby RSP in ROM Monitor mode.
- 2. confreg
- **3.** Enter the boot type as 0.
- 4. reset
- 5. confreg
- **6.** Enter the boot type as 2.
- **7.** set
- **8. IOX_CONFIG_MEDIUM**=location:/path
- 9. sync
- 10. boot
- 11. confreg
- 12. Enter boot type as 2.
- 13. reset

	Command or Action	Purpose
Step 1	Place the RSP and the standby RSP in ROM Monitor mode.	
Step 2	confreg	Sets the configuration register of the standby RSP to ROM
	Example:	Monitor mode so that the standby RSP does not take control. Enter the confreg command at the ROM Monitor
	rommon B1 > confreg	mode prompt to set the configuration register to ROM Monitor mode. You can also change the console baud rate,
	Configuration Summary (Virtual Configuration Register: 0x1920)	boot characteristics, boot type configuration settings an enable diagnostic mode at the ROM Monitor mode. The configuration register is not an environment variab like TURBOBOOT. Do not enter an equal sign when
	enabled are: console baud: 9600 boot: the ROM Monitor	
	do you wish to change the configuration? y/n [n y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n	entering the confreg command.

	Command or Action	Purpose
	<pre>change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 0</pre>	
Step 3	Enter the boot type as 0. Example: enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode	Sets the boot type as 0 to enable ROM Monitor mode during the next system boot.
Step 4	reset Example: rommon B3> reset	Makes the configuration register settings for the standby RSP card effective.
Step 5	<pre>confreg Example: rommon B1 > confreg Configuration Summary (Virtual Configuration Register: 0x1920) enabled are: console baud: 9600 boot: the ROM Monitor do you wish to change the configuration? y/n [n]: y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n change the boot characteristics? y/n [n]: y enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	Sets the active RSP configuration register to EXEC mode. You can also change the console baud rate, boot characteristics, boot type configuration settings, and enable diagnostic mode at the ROM Monitor mode.
Step 6	Enter the boot type as 2. Example: enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2	Sets the boot type as 2 for the active RSP to enable MBI validation mode or the EXEC mode during the next system boot.
Step 7	set Example: rommon B3> set	Displays the current environment variable settings. Note The filename is set in the IOX_CONFIG_MEDIUM variable.

	Command or Action	Purpose
Step 8	IOX_CONFIG_MEDIUM=location:/path Example:	Sets the IOX_CONFIG_MEDIUM variable to specify a different location.
	rommon B1> IOX_CONFIG_FILE=/disk2:/cfgarchives/admingold.conf	For the Cisco ASR 9000 Series Router, replace <i>location</i> with disk0 or disk1. Replace <i>path</i> with the path to the directory in which you want to store the configuration files.
		Note By default, the directory /disk0:/usr is available for storing alternative configurations and other user files. We recommend that you do not use a directory path starting with /disk0:/config because that path is used to store system files.
Step 9	sync	Saves the changes.
	Example:	
	rommon B1> sync	
Step 10	boot	Boots the router.
	Example:	
	rommon B1> boot	
Step 11	confreg	Sets the configuration register of the standby RSP to EXEC mode. You can also change the console baud rate, boot
	Example:	characteristics, boot type configuration settings, and enable diagnostic mode at the ROM Monitor mode.
	rommon B2 > confreg	
	Configuration Summary (Virtual Configuration Register: 0x1920)	
	enabled are: console baud: 9600	
	boot: the ROM Monitor do you wish to change the configuration? y/n [n]:	
	y enable "diagnostic mode"? y/n [n]: n change console baud rate? y/n [n]: n	
	change the boot characteristics? y/n [n]: y enter boot type:	
	0 = ROM Monitor 2 = MBI Validation Boot Mode	
	[0]: 2	
Step 12	Enter boot type as 2.	Sets the boot type as 2 for the standy RSP to enable MBI
	Example:	validation mode or the EXEC mode during the next system boot.
	<pre>enter boot type: 0 = ROM Monitor 2 = MBI Validation Boot Mode [0]: 2</pre>	

	Command or Action	Purpose
Step 13	reset	Resets the standby RSP so that the new setting takes effect
	Example:	and the standby RSP becomes operational.
	rommon B2 > reset	

Additional References

The following sections provide references related to the ROM Monitor.

Related Documents

Related Topic	Document Title
	Configuring Secure Domain Routers on Cisco IOS XR Softw System Management Configuration Guide for Cisco ASR 9000

Technical Assistance

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.	http://www.cisco.com/support
To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.	
Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	

Additional References