

RIP Next Generation (RIPng)

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From the Book



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Verifying and Troubleshooting RIPng

CAUTION

Using the **debug** command may severely affect router performance and might even cause the router to reboot. Always exercise caution when using the **debug** command. Do not leave **debug** on. Use it long enough to gather needed information, and then disable debugging with the **undebug all** command.

TIP

Send your **debug** output to a syslog server to ensure you have a copy of it in case your router is overloaded and needs to reboot.

Router#clear ipv6 rip	Deletes routes from the IPv6 RIP routing table and, if installed, routes in the IPv6 routing table.
Router#clear ipv6 route *	Deletes all routes from the IPv6 routing table.

NOTE

Clearing all routes from the routing table causes high CPU utilization rates as the routing table is rebuilt.

Router#clear ipv6 route 2001:db8:c18:3::/64	Clears this specific route from the IPv6 routing table.
Router#clear ipv6 traffic	Resets IPv6 traffic counters.
Router#debug ipv6 packet	Displays debug messages for IPv6 packets.
Router#debug ipv6 rip	Displays debug messages for IPv6 RIP routing transactions.
Router#debug ipv6 routing	Displays debug messages for IPv6 routing table updates and route cache updates.
Router#show ipv6 interface	Displays the status of interfaces configured for IPv6.

Router# show ipv6 interface brief	Displays a summarized status of all interfaces along with assigned IPv6 addresses.
Router# show ipv6 neighbors	Displays IPv6 neighbor discovery cache information.
Router# show ipv6 protocols	Displays the parameters and the current state of the active IPv6 routing protocol processes.
Router# show ipv6 rip	Displays information about the current IPv6 RIPng process.
Router# show ipv6 rip database	Displays the RIPng process database. If more than one RIPng process is running, all are displayed with this command.
Router# show ipv6 rip next-hops	Displays RIPng processes and, under each process, all next-hop addresses.
Router# show ipv6 route	Displays the current IPv6 routing table.
Router# show ipv6 route rip	Displays the current RIPng routes in the IPv6 routing table
Router# show ipv6 route summary	Displays a summarized form of the current IPv6 routing table.
Router# show ipv6 routers	Displays IPv6 router advertisement information received from other routers.
Router# show ipv6 traffic	Displays statistics about IPv6 traffic.

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