Nokia Service Router Linux
Command Quick Reference, Release 21.11

This quick reference provides a summary of commonly used SR Linux commands and debugging strategies.

Hardware show commands

- **show platform**

  shows modules deployed, administrative and operational state, and the date/time the module type was last changed

- **show platform environment**

  shows modules deployed, administrative and operational state, and temperature

- **show platform [chassis|control|fabric|fan-tray|linecard|power-supply]**

  shows specific modules deployed

- **show platform [redundancy|resource-monitoring]**

  shows platform resource usage and redundancy

Version show commands

- **show version**

  shows current software version and chassis type

Interface show commands

- **show interface**

  shows summary details for all interfaces and subinterfaces

- **show interface <*interface name*>**

  shows summary details for the specified interface

Network-instance route table show commands

- **show network-instance route-table summary**

  shows a summary of IPv4/IPv6 route tables

- **show network-instance route-table all**

  shows all route table details (prefix, ID, active status, owner, metric, next-hop type/ID) for the specified network instance

Network-instance protocol show commands

- **show network-instance protocols <*protocol name*> summary**

  shows a summary of the specified protocol status

- **show network-instance <*instance name*> protocols bgp neighbor**

  shows BGP neighbors for all peer addresses for the specified network instance

- **show network-instance <*instance name*> protocols bgp neighbor <*neighbor IP*> [advertised-routes|received-routes] [evpn|ipv4|ipv6]**

  shows additional detail for a specified BGP neighbor IP

- **show network-instance <*instance name*> protocols bgp routes {evpn|ipv4|ipv6} summary**

  shows the BGP route report for the specified network instance

ACL show commands

- **show acl summary**

  shows a summary of configured ACLs

- **show acl {ipv4-filter|ipv6-filter} <*acl name*>**

  shows details for a specified ACL

System show commands

- **show system application**

  shows the name, state, and version of currently running applications

- **show system logging**

  shows log names, type, and directory

- **show system aaa authentication session <*session id*>**

  shows AAA authentication sessions report

- **show system lldp neighbor interface <*interface name*>**

  shows LLDP neighbor interface details

- **show system sflow status**

  shows sFlow status

Debugging - view log messages

View the default log messages:

1. From the CLI, enter bash mode and use the cat command:

   bash cat /var/log/srlinux/buffer/messages

2. To exit bash and return to the CLI, type: **exit**

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Debugging - trace-options

Trace options provide additional debug capabilities. When enabled beneath a protocol, messages log to the debug severity under the corresponding subsystem.

1. Enable trace-options using the following:

   network-instance *<name>* protocols *<type>* trace-options flag *<flag type>*

   For example: `network-instance default protocols bgp trace-options flag keepalive`

2. Use the following to view where trace-options are enabled:

   info from state network-instance default protocols bgp trace-options

   info from state network-instance system logging

3. Configure the log location:

   system logging *<send to location>* subsystem *<name>* priority *<type>* *<value in brackets>*

   For example, to send messages sourced from BGP with a severity of debug to /dev/console: `system logging console subsystem bgp priority match-exact [debug]`