

# Nokia Service Router Linux

## Command Quick Reference

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]
```