



Commands for diagnosing network problems

ONTAP 9

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You can diagnose problems on your network by using commands such as `ping`, `traceroute`, `ndp`, and `tcpdump`. You can also use commands such as `ping6` and `traceroute6` to diagnose IPv6 problems.

If you want to...	Enter this command...
Test whether the node can reach other hosts on your network	<code>network ping</code>
Test whether the node can reach other hosts on your IPv6 network	<code>network ping6</code>
Trace the route that the IPv4 packets take to a network node	<code>network traceroute</code>
Trace the route that the IPv6 packets take to a network node	<code>network traceroute6</code>
Manage the Neighbor Discovery Protocol (NDP)	<code>network ndp</code>
Display statistics about packets that are received and sent on a specified network interface or on all network interfaces	<code>run -node node_name ifstat</code> Note: This command is available from the nodeshell.
Display information about neighboring devices that are discovered from each node and port in the cluster, including the remote device type and device platform	<code>network device-discovery show</code>
View the CDP neighbors of the node (ONTAP supports only CDPv1 advertisements)	<code>run -node node_name cdpd show-neighbors</code> Note: This command is available from the nodeshell.
Trace the packets that are sent and received in the network	<code>network tcpdump start -node node-name - port port_name</code> Note: This command is available from the nodeshell.
Measure latency and throughput between intercluster or intracluster nodes	<code>network test-path -source-node source_nodename</code>
<code>local -destination- cluster destination_clustername - destination-node destination_nodename - session-type Default</code>	<code>AsyncMirrorLocal</code>
<code>AsyncMirrorRemote</code>	<code>SyncMirrorRemote</code>

For more information about these commands, see the appropriate man pages: [ONTAP 9 commands](#)

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