Commands for diagnosing network problems

ONTAP System Manager

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December 09, 2020

This PDF was generated from https://docs.netapp.com/us-en/ontap/networking-app/commands_for_diagnosing_network_problems.html on December 16, 2020. Always check docs.netapp.com for the latest.

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

For more information about these commands, see the appropriate man pages.

Related information

Performance management

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