



Commands for diagnosing network problems

ONTAP 9

aherbin
April 28, 2021

Table of Contents

Commands for diagnosing network problems 1

Commands for diagnosing network problems

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](#)

Copyright Information

Copyright © 2021 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.