



# **ONTAP port usage on a storage system**

## **ONTAP 9**

NetApp  
May 26, 2023

This PDF was generated from [https://docs.netapp.com/us-en/ontap/networking/ontap\\_port\\_usage\\_on\\_a\\_storage\\_system\\_overview.html](https://docs.netapp.com/us-en/ontap/networking/ontap_port_usage_on_a_storage_system_overview.html) on May 26, 2023. Always check docs.netapp.com for the latest.

# Table of Contents

- ONTAP port usage on a storage system ..... 1
  - Overview ..... 1
  - ONTAP internal ports ..... 2

# ONTAP port usage on a storage system

## Overview

A number of well-known ports are reserved for ONTAP communications with specific services. Port conflicts will occur if a port value in your storage network environment is the same as on ONTAP port.

The following table lists the TCP ports and UDP ports that are used by ONTAP.

| Service      | Port/Protocol | Description                        |
|--------------|---------------|------------------------------------|
| ssh          | 22/TCP        | Secure shell login                 |
| telnet       | 23/TCP        | Remote login                       |
| DNS          | 53/TCP        | Load Balanced DNS                  |
| http         | 80/TCP        | Hyper Text Transfer Protocol       |
| rpcbind      | 111/TCP       | Remote procedure call              |
| rpcbind      | 111/UDP       | Remote procedure call              |
| ntp          | 123/UDP       | Network Time Protocol              |
| msrpc        | 135/UDP       | MSRPC                              |
| netbios-ssn  | 139/TCP       | NetBIOS service session            |
| snmp         | 161/UDP       | Simple network management protocol |
| https        | 443/TCP       | HTTP over TLS                      |
| microsoft-ds | 445/TCP       | Microsoft-ds                       |
| mount        | 635/TCP       | NFS mount                          |
| mount        | 635/UDP       | NFS Mount                          |
| named        | 953/UDP       | Name daemon                        |
| nfs          | 2049/UDP      | NFS Server daemon                  |
| nfs          | 2049/TCP      | NFS Server daemon                  |
| nrv          | 2050/TCP      | NetApp Remote Volume protocol      |
| iscsi        | 3260/TCP      | iSCSI target port                  |
| lockd        | 4045/TCP      | NFS lock daemon                    |
| lockd        | 4045/UDP      | NFS lock daemon                    |
| NSM          | 4046/TCP      | Network Status Monitor             |
| NSM          | 4046/UDP      | Network Status Monitor             |
| rquotad      | 4049/UDP      | NFS rquotad protocol               |
| krb524       | 4444/UDP      | Kerberos 524                       |
| mdns         | 5353/UDP      | Multicast DNS                      |

|                   |                   |  |
|-------------------|-------------------|--|
| HTTPS             | 5986/UDP          | HTTPS Port - Listening binary protocol |
| https             | 8443/TCP          | 7MTT GUI Tool through https            |
| ndmp              | 10000/TCP         | Network Data Management Protocol       |
| Cluster peering   | 11104/TCP         | Cluster peering                        |
| Cluster peering   | 11105/TCP         | Cluster peering                        |
| NDMP              | 18600 - 18699/TCP | NDMP                                   |
| cifs witness port | 40001/TCP         | cifs witness port                      |
| tls               | 50000/TCP         | Transport layer security               |
| iscsi             | 65200/TCP         | ISCSI port                             |

## ONTAP internal ports

The following table lists the TCP ports and UDP ports that are used internally by ONTAP. These ports are used to establish intracluster LIF communication:

| Port/Protocol | Description        |
|---------------|--------------------|
| 514           | Syslog             |
| 900           | NetApp Cluster RPC |
| 902           | NetApp Cluster RPC |
| 904           | NetApp Cluster RPC |
| 905           | NetApp Cluster RPC |
| 910           | NetApp Cluster RPC |
| 911           | NetApp Cluster RPC |
| 913           | NetApp Cluster RPC |
| 914           | NetApp Cluster RPC |
| 915           | NetApp Cluster RPC |
| 918           | NetApp Cluster RPC |
| 920           | NetApp Cluster RPC |
| 921           | NetApp Cluster RPC |
| 924           | NetApp Cluster RPC |
| 925           | NetApp Cluster RPC |
| 927           | NetApp Cluster RPC |
| 928           | NetApp Cluster RPC |
| 929           | NetApp Cluster RPC |
| 931           | NetApp Cluster RPC |
| 932           | NetApp Cluster RPC |

|       |                                 |
|-------|---------------------------------|
| 933   | NetApp Cluster RPC              |
| 934   | NetApp Cluster RPC              |
| 935   | NetApp Cluster RPC              |
| 936   | NetApp Cluster RPC              |
| 937   | NetApp Cluster RPC              |
| 939   | NetApp Cluster RPC              |
| 940   | NetApp Cluster RPC              |
| 951   | NetApp Cluster RPC              |
| 954   | NetApp Cluster RPC              |
| 955   | NetApp Cluster RPC              |
| 956   | NetApp Cluster RPC              |
| 958   | NetApp Cluster RPC              |
| 961   | NetApp Cluster RPC              |
| 963   | NetApp Cluster RPC              |
| 964   | NetApp Cluster RPC              |
| 966   | NetApp Cluster RPC              |
| 967   | NetApp Cluster RPC              |
| 5125  | Alternate Control Port for disk |
| 5133  | Alternate Control Port for disk |
| 5144  | Alternate Control Port for disk |
| 65502 | Node scope SSH                  |
| 65503 | LIF Sharing                     |
| 7810  | NetApp Cluster RPC              |
| 7811  | NetApp Cluster RPC              |
| 7812  | NetApp Cluster RPC              |
| 7813  | NetApp Cluster RPC              |
| 7814  | NetApp Cluster RPC              |
| 7815  | NetApp Cluster RPC              |
| 7816  | NetApp Cluster RPC              |
| 7817  | NetApp Cluster RPC              |
| 7818  | NetApp Cluster RPC              |
| 7819  | NetApp Cluster RPC              |
| 7820  | NetApp Cluster RPC              |
| 7821  | NetApp Cluster RPC              |

|      |   |
|------|---|
| 7822 | NetApp Cluster RPC                          |
| 7823 | NetApp Cluster RPC                          |
| 7824 | NetApp Cluster RPC                          |
| 8023 | Node Scope TELNET                           |
| 8514 | Node Scope RSH                              |
| 9877 | KMIP Client Port (Internal Local Host Only) |

## Copyright information

Copyright © 2023 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.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

## 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.