

# **ONTAP port usage on a storage system**ONTAP 9

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# **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                    |
| NFS          | 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) |

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