# 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 |

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|---|---|---|
| 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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