

# Network Interfaces – Status, Stop & Start, Routes, etc.

On the command line enter **NETSTAT**.

```
Work with TCP/IP Network Status

Select one of the following:

1. Work with TCP/IP interface status
2. Display TCP/IP route information
3. Work with TCP/IP connection status
4. Work with IPv6 interface status
5. Display IPv6 route information
6. Work with IPv6 connection status
```

## Check Status

Take Option 1. Work with TCP/IP Interface Status

```
Work with TCP/IP Network Status

Select one of the following:

1. Work with TCP/IP interface status
2. Display TCP/IP route information
```

```
Work with TCP/IP Interface Status                               System: ALR400
Type options, press Enter.
5=Display details      8=Display associated routes  9=Start  10=End
12=Work with configuration status  14=Display multicast groups

Opt  Internet      Network      Line         Interface
   Address        Address      Description  Status
---  -
1   10.2.4.35       10.2.4.0    ETHLININT   Active
2   10.2.4.36       10.2.4.0    ETHLININT   Active
3   127.0.0.1       127.0.0.0   *LOOPBACK   Active
4   158.96.129.114  158.96.129.112  ETHLINWEB   Active
5   158.96.129.115  158.96.129.112  ETHLINWEB   Active

Bottom
F3=Exit  F9=Command line  F11=Display line information  F12=Cancel
F13=Sort by column  F20=Work with IPv6 interfaces  F24=More keys
```

For additional detail about an interface, select it and take option 5. Display details.

```
Display TCP/IP Interface Status                               System:
Interface host name . . . . . :
Internet address . . . . . : 10.2.4.35
Subnet mask . . . . . : 255.255.255.0
Network address . . . . . : 10.2.4.0
Host address . . . . . : 0.0.0.35
Directed broadcast address . . . . . : 10.2.4.255
Interface status . . . . . : Active
Change date/time . . . . . : 10/16/06 19:57:44
Line description . . . . . : ETHLININT
Line type . . . . . : *ELAN
Associated local interface . . . . . : *NONE
Type of service . . . . . : *NORMAL
Maximum transmission unit . . . . . : 1492
Automatic start . . . . . : *YES
Alias name . . . . . : *NONE
Alias name CCSID . . . . . : 0
```

For information about an interface's routing, select it and take option **8**. Display Associated Routes.

```

Display Associated Routes
System:
Interface internet address . . . . . : 10.2.4.35

Type options, press Enter.
5=Display details

  Opt  Route      Subnet      Next      Route
  ---  ---        ---        ---        ---
  ---  Destination  Mask       Hop       Available
  ---  ---        ---        ---        ---
  ---  10.2.4.0     255.255.255.0 *DIRECT  *YES
  ---  10.2.90.157 *HOST      10.2.4.4 *YES
  ---  10.2.80.230 *HOST      10.2.4.4 *YES
  ---  10.2.80.223 *HOST      10.2.4.4 *YES
  ---  10.2.80.211 *HOST      10.2.4.4 *YES
  ---  10.2.80.198 *HOST      10.2.4.4 *YES
  ---  10.2.80.176 *HOST      10.2.4.4 *YES
  ---  10.2.60.180 *HOST      10.2.4.4 *YES
  ---  10.2.20.5    *HOST      10.2.4.4 *YES
  ---  10.2.10.150 *HOST      10.2.4.4 *YES
  ---  10.2.254.0   255.255.255.0 10.2.4.1 *YES

```

For information about an interface's routing, select it and take option **12**. Work with configuration status.

Note: ETHLININT = Internal LAN (10.2.4.35 and 10.2.4.36) 1 GB

```

Work with Configuration Status
ALR400
10/18/06 08:05:3
Position to . . . . . Starting characters

Type options, press Enter.
1=Vary on 2=Vary off 5=Work with job 8=Work with description
9=Display mode status 13=Work with APPN status...

  Opt  Description      Status      Job-----
  ---  ---              ---
  ---  ETHLININT        ACTIVE
  ---  ETHCTLINT        ACTIVE
  ---  ETHDEVINT        ACTIVE      QTCPIP  QTCP  008498

```

## Display TCP Routes

If you're not already at the NETSTAT page, on the command line enter **NETSTAT**.

Take Option **2**. Display TCP/IP rout information.

```

Work with TCP/IP Network Status

Select one of the following:

  1. Work with TCP/IP interface status
  2. Display TCP/IP route information
  3. Work with TCP/IP connection status

```

```

Display TCP/IP Route Information
System
Type options, press Enter.
5=Display details

Route      Subnet      Next      Route
Opt  Destination  Mask      Hop      Available
-   10.2.4.0     255.255.255.0 *DIRECT *YES
-   10.2.4.0     255.255.255.0 *DIRECT *YES
-   10.2.254.62 *HOST     10.2.4.6 *YES
-   10.2.254.60 *HOST     10.2.4.6 *YES
-   10.2.90.165 *HOST     10.2.4.4 *YES
-   10.2.90.157 *HOST     10.2.4.4 *YES
-   10.2.80.230 *HOST     10.2.4.4 *YES
-   10.2.80.227 *HOST     10.2.4.4 *YES
-   10.2.80.223 *HOST     10.2.4.4 *YES
-   10.2.80.219 *HOST     10.2.4.4 *YES
-   10.2.80.215 *HOST     10.2.4.4 *YES
-   10.2.80.211 *HOST     10.2.4.4 *YES
-   10.2.80.198 *HOST     10.2.4.4 *YES

F3=Exit  F5=Refresh  F9=Command line  F11=Display route type
F13=Sort by column  F20=Display IPv6 routes  F24=More keys

```

Take Option 5 to Display details for a specific route

```

Display TCP/IP Route Details
System:
Route information:
Route destination . . . . . : 10.2.4.0
Subnet mask . . . . . : 255.255.255.0
Next hop host name . . . . . :
Next hop . . . . . : *DIRECT
Type of service . . . . . : *NORMAL
Route available . . . . . : *YES
Route type . . . . . : *DIRECT
Route source . . . . . : *CFG
Change date/time . . . . . : 10/16/08 19:57:47
Route maximum transmission unit . . . . . : 1492

Associated interface information:
Route to interface binding type . . . . . : *FIXED
Interface status . . . . . : Active
Interface address . . . . . : 10.2.4.35

Network address . . . . . : 10.2.4.0
Subnet mask . . . . . : 255.255.255.0
Line description . . . . . : ETHLININT
Line type . . . . . : *ELAN

```

Press F11 to Display route type.

```

Type options, press Enter.
5=Display details

Route      Type of      Route  Route  Route
Opt  Destination  Service  MTU  Type  Source
-   10.2.4.0     *NORMAL  1492 *DIRECT *CFG
-   10.2.4.0     *NORMAL  1492 *DIRECT *CFG
-   10.2.254.60 *NORMAL  1492 *HOST *ICMP
-   10.2.90.161 *NORMAL  1492 *HOST *ICMP
-   10.2.90.157 *NORMAL  1492 *HOST *ICMP
-   10.2.90.152 *NORMAL  1492 *HOST *ICMP
-   10.2.80.223 *NORMAL  1492 *HOST *ICMP
-   10.2.80.219 *NORMAL  1492 *HOST *ICMP
-   10.2.80.211 *NORMAL  1492 *HOST *ICMP
-   10.2.80.181 *NORMAL  1492 *HOST *ICMP
-   10.2.80.150 *NORMAL  1492 *HOST *ICMP
-   10.2.60.177 *NORMAL  1492 *HOST *ICMP
-   10.2.50.159 *NORMAL  1492 *HOST *ICMP

```

Press F11 again to show Next Hop.

Type options, press Enter.  
5=Display details

Opt	Route Destination	Subnet Mask	Next Hop	Route Available
-	10.2.4.0	255.255.255.0	*DIRECT	*YES
-	10.2.4.0	255.255.255.0	*DIRECT	*YES
-	10.2.254.60	*HOST	10.2.4.6	*YES
-	10.2.90.161	*HOST	10.2.4.4	*YES
-	10.2.90.157	*HOST	10.2.4.4	*YES
-	10.2.90.152	*HOST	10.2.4.4	*YES
-	10.2.80.223	*HOST	10.2.4.4	*YES
-	10.2.80.219	*HOST	10.2.4.4	*YES
-	10.2.80.211	*HOST	10.2.4.4	*YES
-	10.2.80.181	*HOST	10.2.4.4	*YES
-	10.2.80.150	*HOST	10.2.4.4	*YES
-	10.2.60.177	*HOST	10.2.4.4	*YES
-	10.2.50.159	*HOST	10.2.4.4	*YES

## TCP/IP Connection Status (Ports)

If you're not already at the NETSTAT page, on the command line enter **NETSTAT**.

Take Option 3. Work with TCP/IP connection status

1. Work with TCP/IP interface status
2. Display TCP/IP route information
3. Work with TCP/IP connection status
4. Work with IPv6 interface status

```

Work with TCP/IP Connection Status                               System:  ALR400
Type options, press Enter.
 3=Enable debug  4=End  5=Display details  6=Disable debug
 8=Display jobs

  Opt  Remote      Remote      Local
      Address    Port        Port        Idle Time  State
  ---  -
  *    *          *          ftp-con >  045:18:14 Listen
  *    *          *          telnet     000:14:44 Listen
  *    *          *          smtp       045:14:13 Listen
  *    *          *          www        008:14:55 Listen
  *    *          *          pop3       045:14:18 Listen
  *    *          *          netbios >  045:14:33 Listen
  *    *          *          netbios >  000:00:12 *UDP
  *    *          *          netbios >  000:00:01 *UDP
  *    *          *          netbios >  045:14:27 Listen
  *    *          *          APPCove >  008:41:19 Listen
  *    *          *          APPCove >  000:00:50 *UDP
  *    *          *          https     008:14:55 Listen
  More...
F3=Exit  F5=Refresh  F9=Command line  F11=Display byte counts  F12=Cancel
F20=Work with IPv6 connections  F22=Display entire field  F24=More keys

```

Press Page Down for more.

```

Type options, press Enter.
 3=Enable debug  4=End  5=Display details  6=Disable debug
 8=Display jobs

  Opt  Remote      Remote      Local
      Address    Port        Port        Idle Time  State
  ---  -
  *    *          *          ldap       008:14:48 Listen
  *    *          *          500        030:22:09 *UDP
  *    *          *          1352       007:12:45 Listen
  *    *          *          500        045:13:03 *UDP
  10.2.3.23  1146        telnet     000:04:25 Established
  10.2.3.23  1147        1025      001:40:20 Established
  10.2.3.33  1116        telnet     000:04:04 Established
  10.2.3.33  1117        1025      001:21:42 Established
  10.2.3.77  1124        telnet     000:02:30 Established
  10.2.3.77  1125        1025      001:23:23 Established
  10.2.3.131 1447        telnet     000:00:01 Established
  10.2.3.131 1448        1025      000:25:45 Established

```

Press F11 to show Byte count.

```

Type options, press Enter.                               System:  ALR400
 3=Enable debug  4=End  5=Display details  6=Disable debug
 8=Display jobs

  Opt  Remote      Remote      Local      User      Bytes Out  Bytes In
  ---  -
  *    *          *          ldap       QNOTES    0          0
  *    *          *          500        QTCP      1776       1312
  *    *          *          1352       QNOTES    0          0
  *    *          *          500        QTCP      0          0
  10.2.3.23  1146        telnet     QTCP      153419    18092
  10.2.3.23  1147        1025      ALDBDAVE  222       348
  10.2.3.33  1116        telnet     QTCP      197403    48560
  10.2.3.33  1117        1025      ALDBDAVE  222       348
  10.2.3.77  1124        telnet     QTCP      253842    37146
  10.2.3.77  1125        1025      ALDBDAVE  222       348
  10.2.3.131 1447        telnet     QTCP      830730    469630
  10.2.3.131 1448        1025      ALDBDAVE  222       348
  More...

```