

How To Guides for TCP/IP

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Test TCP/IP Connectivity

TSO commands to test TCP/IP connectivity

These commands can be executed directly in the [TSO](#) environment or with the [TSO interfaces](#) of the [ISPF](#) environment.

ping

Test connectivity to another host

ping *hostname*

ping *ipaddr*

ping will fail if ICMP requests are dropped by the target host or blocked by a router somewhere in the network path. Therefore, this should be first tried when the connection is working, to ensure that a failure is due to actual network connectivity problems.

Trace Route

Trace the connection to another host

The command to trace the route to another host varies depending on the operating system.

[Trace Route from IBM z/OS](#)

[Trace Route from UNIX](#)

[Trace Route from Microsoft Windows](#)

The trace route test may not work properly if ICMP requests are dropped by the target host or blocked by a router somewhere in the network path. Therefore, this should be first tried when the connection is working, to ensure that a failure is due to actual network connectivity problems.

Look up DNS Information

TSO commands to look up DNS information

These commands can be executed directly in the [TSO](#) environment or with the [TSO interfaces](#) of the [ISPF](#) environment.

Name Server Lookup

Name Server Lookup

nslookup

>

Determine the authoritative name servers for a name

> set q=ns

> *name*

Change to the authoritative name server

> server *newns*

Look up the IP address for a name

> set q=a

> *name*

Look up the name for an IP address

> set q=ptr

> *ipaddr*

nslookup *hostname*

nslookup

EZB30421 > ls *domain.com*

EZB30421 > set q=ns

EZB30421 > *hostname*

EZB31121 Authoritative answers can be found from:

EZB31431 *ns1.domain.com* internet address = *nnn.nnn.nnn.nnn*

EZB31431 *ns2.domain.com* internet address = *nnn.nnn.nnn.nnn*

EZB30421 > server *ns1.domain.com*

EZB30421 > set q=a

EZB30421 > *hostname*

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```
EZB30421 > set q=ptr  
EZB30421 > ipaddr
```

Is lists all of the names in the given domain. set q=ns sets the query type to allow determining the authoritative name server for a given host name. server can be used to set the default server being queried to an authoritative name server, or any other name server. set q=a sets the query type to return the IP address for a given host name. set q=ptr sets the query type to do a reverse lookup, which returns the host name for a given IP addresses.

Domain Information Groper

Grope for domain information with DIG

```
dig hostname
```

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