

## Command line

iPXE includes an interactive command line that can be used for manual booting and for diagnosing problems. Commands can also be used as part of an iPXE [script](#).

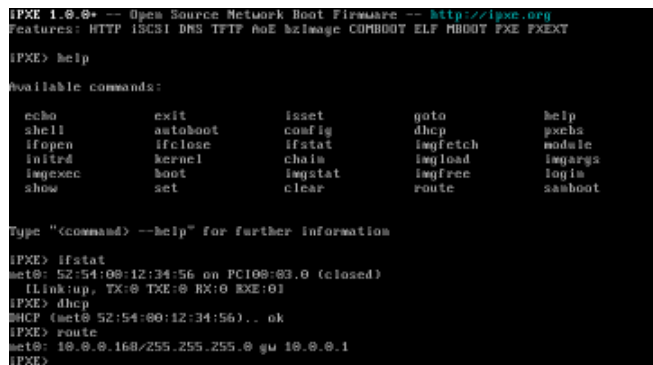
When iPXE starts up, you will see a welcome banner message:

```
iPXE -- Open Source Network Boot Firmware -- http://ipxe.org
Features: HTTP iSCSI DNS TFTP AoE FCoE TFTP COMBOOT ELF PXE PXEXT

Press Ctrl-B for the iPXE command line...
```

If you press Ctrl-B at this point, you should reach the iPXE command line:

```
iPXE>
```



```
iPXE 1.0.0* -- Open Source Network Boot Firmware -- http://ipxe.org
Features: HTTP iSCSI DNS TFTP AoE bziimage COMBOOT ELF MBOOT PXE PXEXT

iPXE> help

Available commands:

echo      exit      iset      goto      help
shell     autoboot  config    dhcp      pxeba
ifopen    ifclose   ifstat    imgfetch  module
initrd    kernel    chain     imgload   imgargs
imgexec   boot      imgstat   imgfree   login
show      set       clear     route     sanboot

Type "<command> --help" for further information

iPXE> ifstat
net0: 52:54:00:12:34:56 on PC100:03.0 (closed)
  [Link:up, TX:0 TXE:0 RX:0 RXE:0]
iPXE> dhcp
DHCP (net0 52:54:00:12:34:56)... ok
iPXE> route
net0: 10.0.0.168/255.255.255.0 gw 10.0.0.1
iPXE>
```

## Manual booting

If your [DHCP](#) server is not configured to allow automatic booting, then you could use the iPXE command line to boot manually. For example, you could obtain an IP address using the [dhcp](#) command, then boot the iPXE demonstration image using the [chain](#) command:

```
iPXE> dhcp
DHCP (net0 52:54:00:12:34:56)... ok
iPXE> chain http://boot.ipxe.org/demo/boot.php
```

## Diagnostics

You can use the iPXE command line to diagnose problems that are preventing you from booting successfully. For example, you could check the IP address configuration provided by your [DHCP](#) server using the [route](#) command:

```
iPXE> dhcp
DHCP (net0 52:54:00:12:34:56)... ok
iPXE> route
net0: 192.168.0.101/255.255.255.0 gw 192.168.0.1
```

## Commands

You can use the [help](#) command to show a list of all available commands. Full documentation for each command is provided in the iPXE [command reference](#).