

Ethernet Configuration and Verification

Follow these steps to configure and verify any type of HP-UX 11i v1, 11i v2, or 11i v3-based Ethernet cards including 10 Gigabit Ethernet, Gigabit Ethernet, and Fast Ethernet.

Step 1. Install LAN card (if needed) and attach cables to it according to instructions in your system's hardware support guide.

Step 2. Plug LAN cable (or cables) into LAN card and into appropriate switch ports using Category 5 (CAT 5) or better LAN cable.

Step 3. Boot the system.

Step 4. To see all LAN cards with drivers, run:
`ioscan -fnClan`

If you do not see your card, use `ioscan` to determine if the card is there but needs a driver (UNCLAIMED).¹
`ioscan -fn`

Step 5. If needed, install the driver or update the driver to the latest version. Get the latest driver from the latest quarterly release media for your version of HP-UX. To add new software, use the command:
`swinstall`

Step 6. Verify connectivity to the switch.
`nwmgr -c lanPPA -A link_state,speed (HP-UX 11i v3)`
`lanadmin -x PPA (HP-UX 11i v1 or 11i v2)`

Step 7. To see all LAN cards with IP addresses, run:
`netstat -in`

Step 8. Assign IP addresses and subnet masks to additional cards as desired. On HP-UX 11i v3, use the System Management Homepage (SMH). For further details, see the *HP-UX System Administrator's Guide: Configuration Management*. On HP-UX 11i v1 or 11i v2, use SAM.

Step 9. For each interface, run `ifconfig lanx` to verify the correct IP, netmask, and broadcast addresses. For example:
`ifconfig lan0`

Step 10. For each interface, ping the broadcast address shown from the output of `ifconfig` and verify that you get responses from other nodes on that subnet.

This should get the system up and connected to any local networks. To set up communication between the local network and remote networks, configure a router using SMH (HP-UX 11i v3) or SAM (HP-UX 11i v1 or 11i v2) or use the `route` command to put the new route into effect on the system as follows:

```
/usr/sbin/route add default router_ip_address 1
```

1. If your LAN card is a built-in card or was factory installed, the software bundle required for the card is already loaded onto your system's hard drive.

For Further Ethernet or I/O Information

For further information on all the current 10 Gigabit, Gigabit, and Fast Ethernet products, please refer to <http://docs.hp.com> and then look under I/O Cards and Networking Software. Also located there are the hardware Declaration of Conformity as well as further details on the mass storage part of combination cards.

Maintenance and troubleshooting information for the current 10 Gigabit, Gigabit, and Fast Ethernet drivers is located in the *Ethernet Support Guide*.

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