A/UX: TCP/IP Routing Via Ethernet and SL/IP (8/94)

Article Created: 3 February 1992
Article Reviewed/Updated: 23 August 1994

TOPIC ---

I know that A/UX supports the routing of TCP/IP protocols and services between
two Ethernet networks when the A/UX system is properly configured and has two
Ethernet adapters in it.

I also know that A/UX supports SL/IP connections for providing TCP/IP protocols
and services over direct or dial-up serial connections.

Can A/UX support TCP/IP routing between two networks, one via an Ethernet
connection, and the other via SL/IP?

DISCUSSION ---

Yes, A/UX supports TCP/IP routing among networks. In A/UX, however, the
"ipforwarding" parameter was turned off when it is installed, so that a host
can't arbitrarily become a gateway.

You can turn the "ipforwarding" parameter back on by doing the following adb
(kernel debugger) command:

```
     # adb -w /unix
 ===> a.out file = /unix (COFF format)
 ===> cannot open core
 ===> ready
     ipforwarding?D
 ===> ipforwarding:   0
     ipforwarding?W 1
 ===> ipforwarding:   0x0       =       0x1
     $w
     $q
 ===> #
```

Then restart A/UX so that the change will take effect. You might also want to
make the same change to the /etc/install.d/boot.d/bnet_dr file (adb -w bnet_dr)
in case you build a new kernel via newconfig at some later date.

If you would rather not restart, do this:

```
    # adb -w -w /unix /dev/kmem
 ===> a.out file = /unix (COFF format)
 ===> core file = /dev/kmem
 ===> ready
     ipforwarding/W 1
 ===> ipforwarding:   0x0        =      0x1
     $w
     $q
```

This changes the running kernel (/dev/kmem) without affecting what will happen
after the next start. You can do both changes in one session. The "-k" flag is
recommended when working on standalone programs such as the kernel (that's why
it's named "-k").

Article Change History:
23 Aug 1994 - Reviewed and updated.
30 Apr 1992 - REVIEWED for technical accuracy.

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Keywords: <None>

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19960215 11:05:19.00

Tech Info Library Article Number: 9789