

## Networking: Howto make static route(s) permanent

### Problem

If I use the command "route add -net x.y.z.t netmask a.b.c.d ... ethx", the route is added only until next reboot. :-(

Is there a way ( via setup or other ) to add PERMANENTLY a route ?

### Solution

Add the 'route' command to the **/rc/rc\_user** script.

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For FREESCO 027 this script has a start and a stop section, see comments:

#### CODE

```
echo -n "Starting rc_user... "  
# Add commands here you want to execute when booting. Use the fork  
# command to launch programs which normally stay in the foreground.  
route add -net x.y.z.t netmask a.b.c.d ... ethx
```

#### CODE

```
echo -n "Stopping rc_user... "  
# Add commands here you want to execute when shutting down or rebooting.  
# Be careful not to use any commands which wait for user input.  
route del x.y.z.t
```

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For FREESCO 03x, the script has a switch statement, with clearly indicated start) and stop) sections:

#### CODE

```
start) echo -n "Starting rc_user... "  
# Add commands here you want to execute when starting  
# the router.  
# Use the fork command to launch programs which normally stay  
# in the foreground.  
# This part is called after all rc_* files.  
route add -net x.y.z.t netmask a.b.c.d ... ethx  
;;
```

```
stop) echo -n "Stopping rc_user... "  
# Add commands here you want to execute when restarting,
```

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```
# shutting down or rebooting.  
# Be careful not to use any commands which wait for user input.  
# This part is called before all rc_* files.  
route del x.y.z.t    =  
;;
```

Add you command(s) **before** the equal sign (=) and make sure to leave the double semi colons (;;) in place!

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Always use a linux compatible editor (like edit, joe, vi, teddy, mc, etc.) to make changes, never a DOS/Win95 editor, since a DOS/Win95 editor will add ^M characters (CARRIAGE RETURN) at the end of each line, making the script unusable!

*Unique solution ID: #1066*

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