

Flashing Instructions

In order to flash your router you need to do the following steps:

- Download TFTP32/TFTP64
- See [Where do I download firmware?](#) for links to firmware. Look in the dlink-dir400 folder.
- Download [Putty](#) client or you can use any telnet clients(try to stay away from Windows built in telnet)
- Change your local IP adress to a static 192.168.0.2 and subnet mask to 255.255.255.0
- Connect an ethernet cable between your computer and DIR-400's WAN port
- Prepare Putty telnet session -- 192.168.0.1 port 9000
- Start pinging your router through a command line. Type ping 192.168.0.1 -n 900 (You don't really need to ping that many times)
- Power DIR-400 router on and wait for **2nd successful ping** and then initiate putty telnet session.
- Press CTRL-C as soon as you see that boot script is executing (if you are using Putty ver. 0.60 or newer then you don't have to worry about this)
- Start TFTP server with linux.bin in TFTP root directory

If you did everything right then you should see the following on the window of putty:

```
== Executing boot script in 1.140 seconds - enter ^C to abort
^C
RedBoot>
```

Type **ip_address -l 192.168.0.1/24 -h 192.168.0.2** and press Enter

You should see the following:

```
RedBoot> ip_address -l 192.168.0.1/24 -h 192.168.0.2
IP: 192.168.0.1/255.255.255.0, Gateway: 0.0.0.0
Default server: 192.168.0.2
```

Type **fis init** and then

```
RedBoot> fis init
About to initialize [format] FLASH image system - continue (y/n)?
```

Type **y** and press Enter. Wait until the process is complete:

```
About to initialize [format] FLASH image system - continue (y/n)? y
*** Initialize FLASH Image System
And a descriptor for the configuration data size = 10000
... Erase from 0xbffe0000-0xbfff0000: .
... Program from 0x80ff0000-0x81000000 at 0xbffe0000: .
```

Type **load -r -b 0x80041000 linux.bin** and press Enter

```
RedBoot> load -r -b 0x80041000 linux.bin
Using default protocol (TFTP)
Raw file loaded 0x80041000-0x803bafff, assumed entry at 0x80041000
```

Type **fis create linux** and press Enter (this one will take a while. **DO NOT UNPLUG YOUR ROUTER**)

```
RedBoot> fis create linux
... Erase from 0xbfc40000-0xbffba000: .....
```

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```
... Program from 0x80041000-0x803bb000 at 0xbfc40000: .....  
prog_ok  
flash_addr = 0xbfc40000  
mem_addr = 0x80041000  
entry_addr = 0x80041000  
length = 0x37a000  
img_size = 0x37a000  
... Erase from 0xbffe0000-0xbfff0000: .  
... Program from 0x80ff0000-0x81000000 at 0xbffe0000: .
```

Type fconfig and press Enter

```
RedBoot> fconfig  
Run script at boot: true
```

Press Enter

```
Run script at boot: true  
Boot script:  
.. fis load -l linux  
.. exec  
Enter script, terminate with empty line
```

Type fis load -l linux and press Enter

```
>> fis load -l linux
```

type exec and press Enter

```
>> exec
```

just press Enter

```
>>  
Boot script timeout (1000ms resolution): 2
```

press Enter

```
Use BOOTP for network configuration: false
```

press Enter

```
Gateway IP address:
```

press Enter

```
Local IP address: 192.168.0.1
```

press Enter

```
Local IP address mask: 255.255.255.0
```

press Enter

```
Default server IP address: 192.168.0.100
```

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press Enter

```
Console baud rate: 9600
```

press Enter

```
GDB connection port: 9000
```

press Enter

```
Force console for special debug messages: false
```

press Enter

```
Network debug at boot time: false
```

press Enter

```
Update RedBoot non-volatile configuration - continue (y/n)?
```

type y and press Enter

```
Update RedBoot non-volatile configuration - continue (y/n)? y
... Erase from 0xbffe0000-0xbfff0000: .
... Program from 0x80ff0000-0x81000000 at 0xbffe0000: .
```

Type **reset** and press Enter

```
RedBoot> reset
```

- Re-connect an ethernet cable between your computer and DIR-400's LAN port
- Change your local IP address to a static 192.168.1.2 and subnet mask to 255.255.255.0

Your router will be accessible at <http://192.168.1.1>