# Linux: Add routing from different class network A (192.168.1.x) to network B (192.168.10.x) with ip route command

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I had a Linux router which does NAT for a local network located behind a *CISCO router* receiving internet via its *WAN interface* routing traffic to Linux with IP *192.168.1.235*. The Linux router has few network interfaces and routes traffic for networks; 192.168.1.0/24 and 192.168.10.0/24. Another Linux with IP 192.168.1.8 had to talk to 192.168.10.0/24 (because it was necessary to be able access ISCO's router web interface accessible via a local network interface with IP (192.168.10.1). Access to 192.168.10.1 wasn't possible from 192.168.1.8 because routing on NAT-ting Linux (192.168.1.235) to 192.168.10.0/24 network was missing. To make 192.168.1.8 Linux communicate with 192.168.10.1, had to add following routing rules with **ip** command on both the Linux with IP 192.168.1.235 and Linux host behind NAT (192.168.1.8).

**1. On Server (192.168.1.235) run in root shell and add to /etc/rc.local**

# **/sbin/ip r add 192.168.10.0/24 via 192.168.1.235**
And then copy paste same line before **exit 0** in **/etc/rc.local**

Its good idea always to check routing, after adding anything new, here is mine:

# **ip r show**

```
192.168.5.0/24 dev eth0  proto kernel  scope link  src 192.168.5.1
192.168.4.0/24 dev eth0  proto kernel  scope link  src 192.168.4.1
192.168.3.0/24 dev eth0  proto kernel  scope link  src 192.168.3.1
192.168.2.0/24 dev eth0  proto kernel  scope link  src 192.168.2.1
192.168.1.0/24 dev eth0  proto kernel  scope link  src 192.168.1.235
192.168.0.0/24 dev eth0  proto kernel  scope link  src 192.168.0.1
192.168.10.0/24 dev eth1  proto kernel  scope link  src 192.168.10.2
default via 192.168.10.1 dev eth1
```

**2. And also on Second Linux host (192.168.1.8)**

# **/sbin/ip r add 192.168.10.0/24 via 192.168.1.235**
To make routing permanent again paste in **/etc/rc.local** before **exit 0**

After above rules, I can normally ping and access hosts on class C network *192.168.10.1-255* from *192.168.1.8.*