

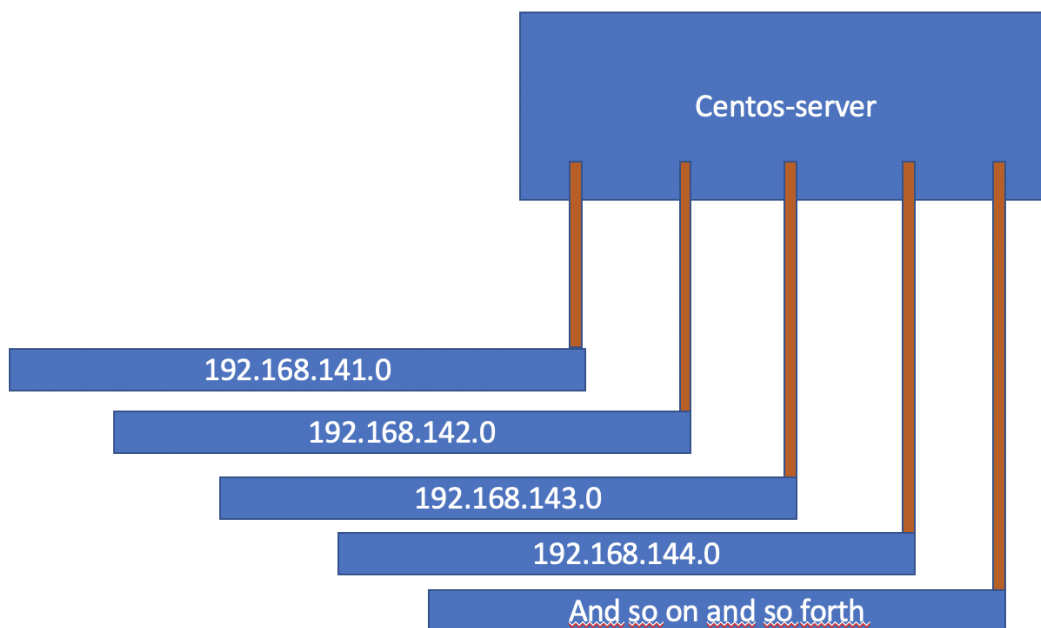
Dictu_labs Routes

Our default route is the route via 192.168.4.1 to the outside world.

What if we have multiple internal networks and we want to be able to route any of these networks using a second GATEWAY?

In this example we have a router that has interfaces in many networks.

From any of the lab machines we can setup a route to any of the other networks via this single router. The router is centos-server:



Centos-server has an interface in any of our networks, with host part 1. So 192.168.141.1, 192.168.142.1 etc.

We need to create a route to any of the networks we like to be able to connect to.

We can use **nmcli** for that.

List your interfaces using nmcli.

```
[root@centos-1 ~]# nmcli connection show
```

NAME	UUID	TYPE	DEVICE
------	------	------	--------

```
ens33 5f24da4d-9fc9-4c91-a72c-aa26c96d0a8f ethernet ens33
ens34 49726985-a401-4bb8-b73d-f7d21dc3a907 ethernet ens34
```

Create a route using 192.168.141.1 as the gateway to two different networks: 192.168.142.0/24 and 192.168.143.0/24.

Of course, you pick two networks out of the twelve we have and ask your colleagues to do the same...because your colleague needs to route back to you as well.

```
[root@centos-1 ~]# nmcli connection modify ens34 +ipv4.routes \
"192.168.142.0/24 192.168.141.1"
[root@centos-1 ~]# nmcli connection modify ens34 +ipv4.routes \
"192.168.143.0/24 192.168.141.1"
```

Reload (reloads config file)

```
[root@centos-1 ~]# nmcli connection reload
```

Activate all connections

```
[root@centos-1 ~]# nmcli connection up ens34
```

Check the permanent config

```
[root@centos-1 ~]# more /etc/sysconfig/network-scripts/route-ens34
ADDRESS0=192.168.142.0
NETMASK0=255.255.255.0
GATEWAY0=192.168.141.1
ADDRESS1=192.168.143.0
NETMASK1=255.255.255.0
GATEWAY1=192.168.141.1
```

Check with your colleague...and use ping to test the route.