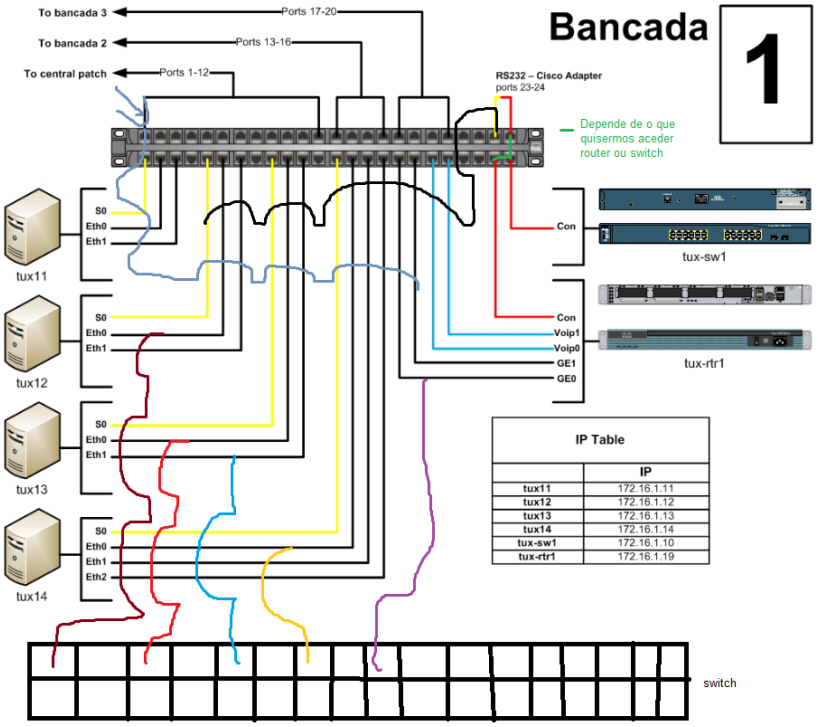
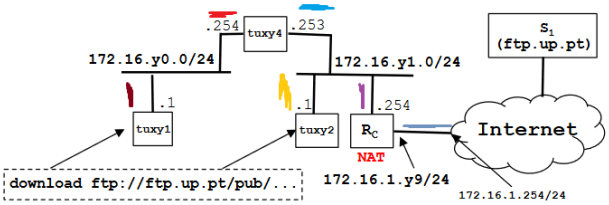
Apresentação RCOM

1 - Reset routers e switch e ligar cabos





2 - Trocar ips com ifconfig (*inserir lista com comandos por ordem*) para os GNUs todos. com os ips fornecidos

tux1: ifconfig eth0 192.168.50.1/24

tux2: ifconfig eth0 192.168.51.1/24

tux4: ifconfig eth0 192.168.50.254/24

ifconfig eth1 192.168.51.253/24

3 - Adicionar gateways.

tuxy1 -> default gateway -> tuxy4

tuxy4 -> default gateway -> Rc

tuxy2 -> default gateway -> RC

tuxy2 e Rc -> gateway -> tuxy4

tux1: route add default gw 172.16.50.254

tux4: route add default gw 172.16.51.254

tux2: route add default gw 172.16.51.254

route add -net 172.16.50.0/24 gw 172.16.51.253

4 - Correr no tuxy4 para fazer packet forwarding (se receber um pacote que nao é dele envia para a default gateway)

echo 1 > /proc/sys/net/ipv4/ip_forward

echo 0 > /proc/sys/net/ipv4/icmp_echo_ignore_broadcasts

5 - Configurar VLANs ao correr isto:

configure terminal

vlan 50

end

configure terminal

vlan 51

end

configure terminal

interface fastethernet 0/y # sendo y a porta fisica no switch que estamos a usar

switchport mode access

switchport access vlan 5x # sendo x a vlan que queremos

end

6 - Configurar NAT

```
conf t
interface fastethernet 0/0
ip address 172.16.51.254 255.255.255.0
no shutdown
ip nat inside
exit
interface fastethernet 0/1
ip address 172.16.2.59 255.255.255.0
no shutdown
ip nat outside
exit
ip nat pool ovrld 172.16.2.59 172.16.2.59 prefix 24
ip nat inside source list 1 pool ovrld overload
access-list 1 permit 172.16.50.0 0.0.0.7
access-list 1 permit 172.16.51.0 0.0.0.7
ip route 0.0.0.0 0.0.0.0 172.16.2.254
ip route 172.16.50.0 255.255.255.0 172.16.51.253
end
```

7 - Ir a esta pasta

/etc/resolv.conf

Trocar o txt por isto:

search netlab.fe.up.pt

nameserver 172.16.1.2

8 - Trocar o DNS

9 - Correr o download

10 - Pings

11 - Capturar o download no wireshark

Tuxy 1 e 2 a capturar o wireshark