



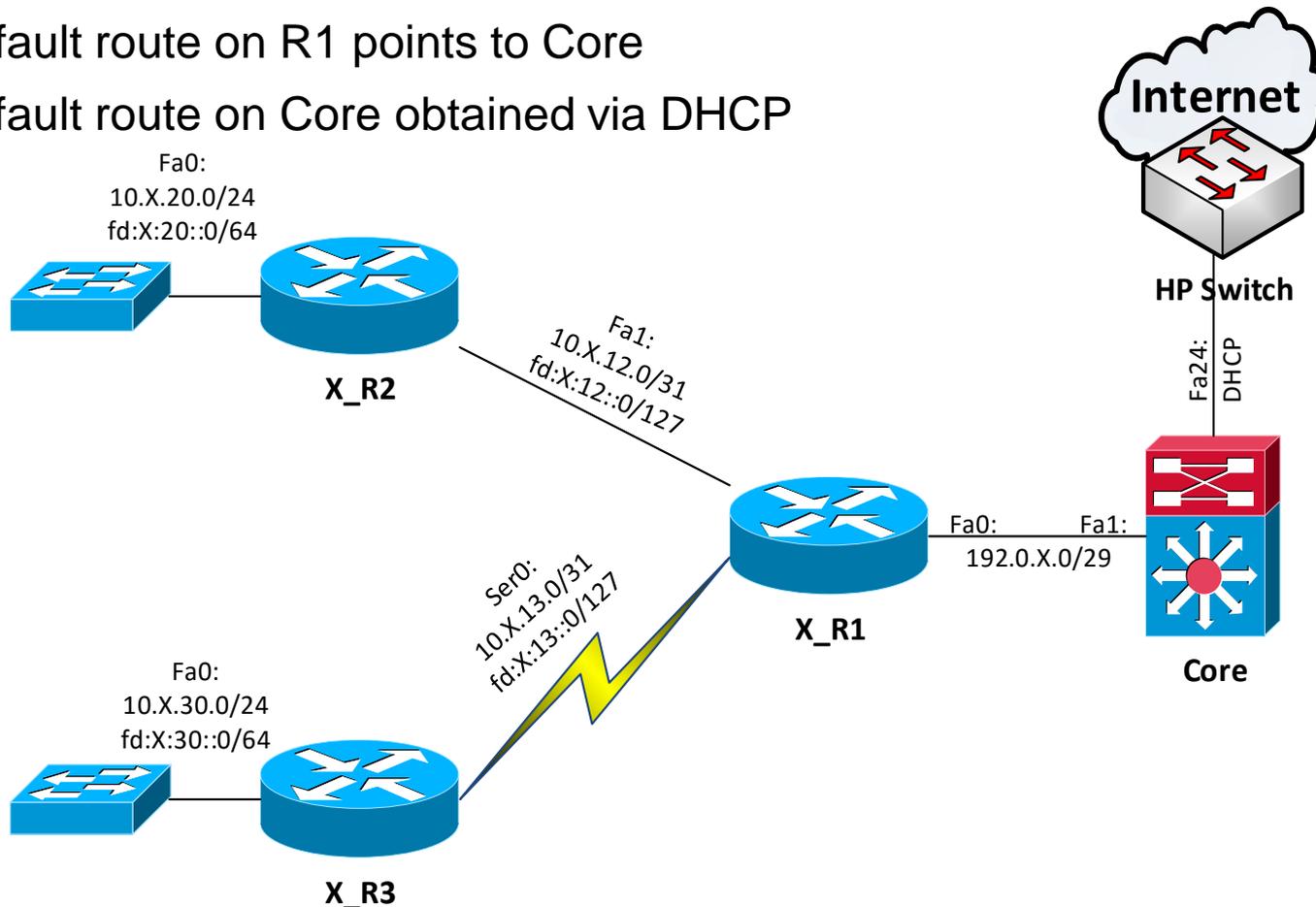
# Internet Connectivity



ROUTE Module 6

# Basic Topology

- Odd groups uses OSPF, even groups uses EIGRP
- Default routes
  - R1 announces def.route
  - Default route on R1 points to Core
  - Default route on Core obtained via DHCP

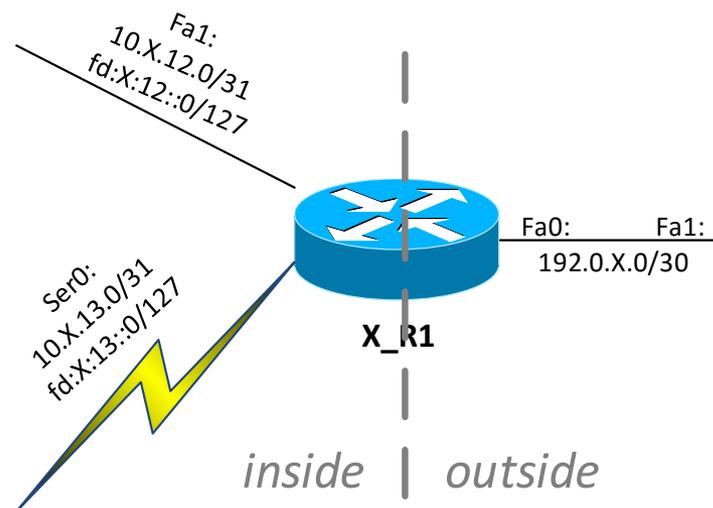


# Lab 6.1: NAT

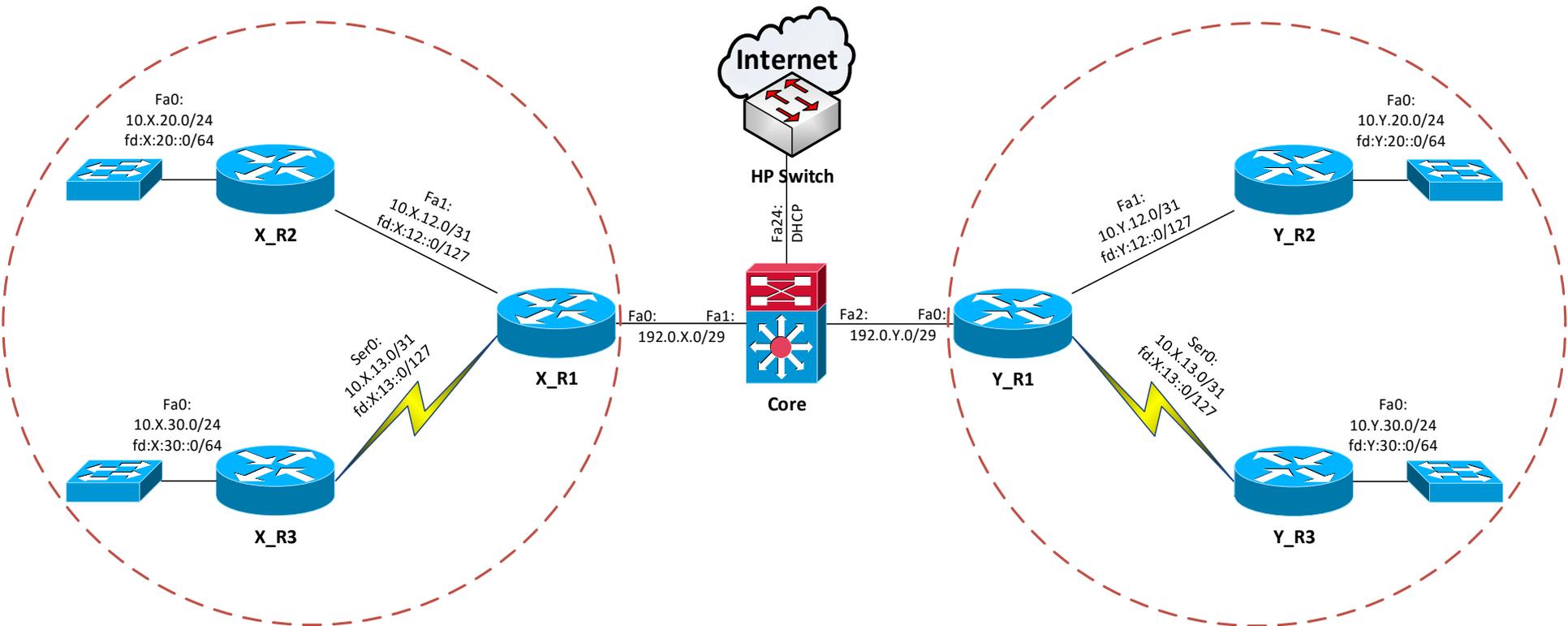
## ■ R1:

```
interface {fa1|s0}
  ip nat inside
interface fa0
  ip nat outside
access-list 1 permit 10.0.0.0 0.255.255.255
ip nat pool NAT-POOL 192.0.X.2 192.0.X.6
ip nat inside source list 1 pool NAT-POOL overload

# show ip nat stat
# show ip nat translation
```



# Lab 6.2: Extend Topology



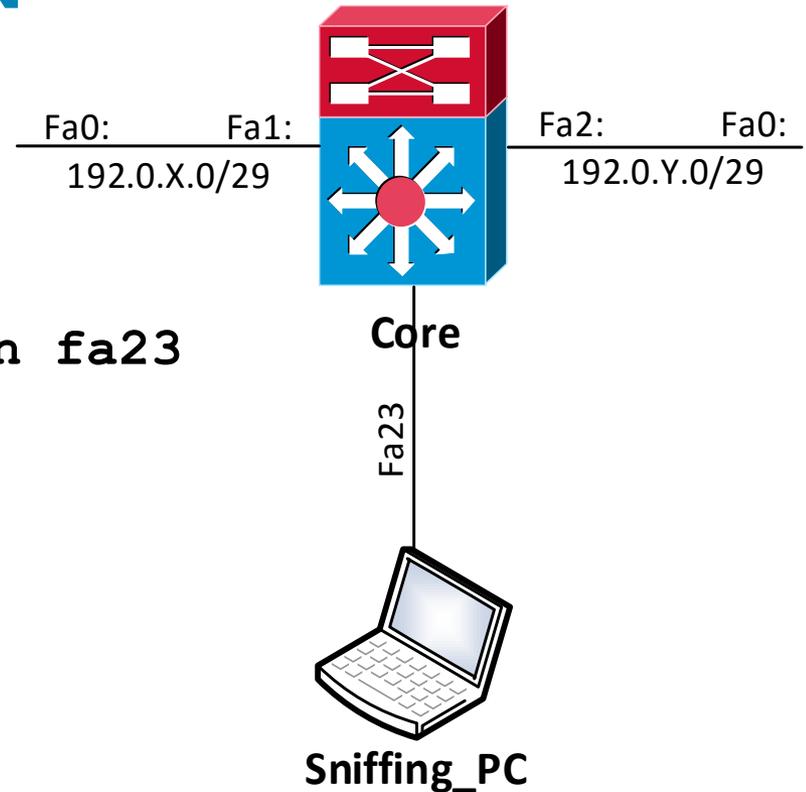
# Lab 6.3: Configure SPAN

- Core

```
(config)#  
monitor session 1 source fa1  
monitor session 1 destination fa23  
encapsulation replicate
```

- Start Wireshark on Sniffing\_PC

- Ping between X\_R1 and Y\_R1

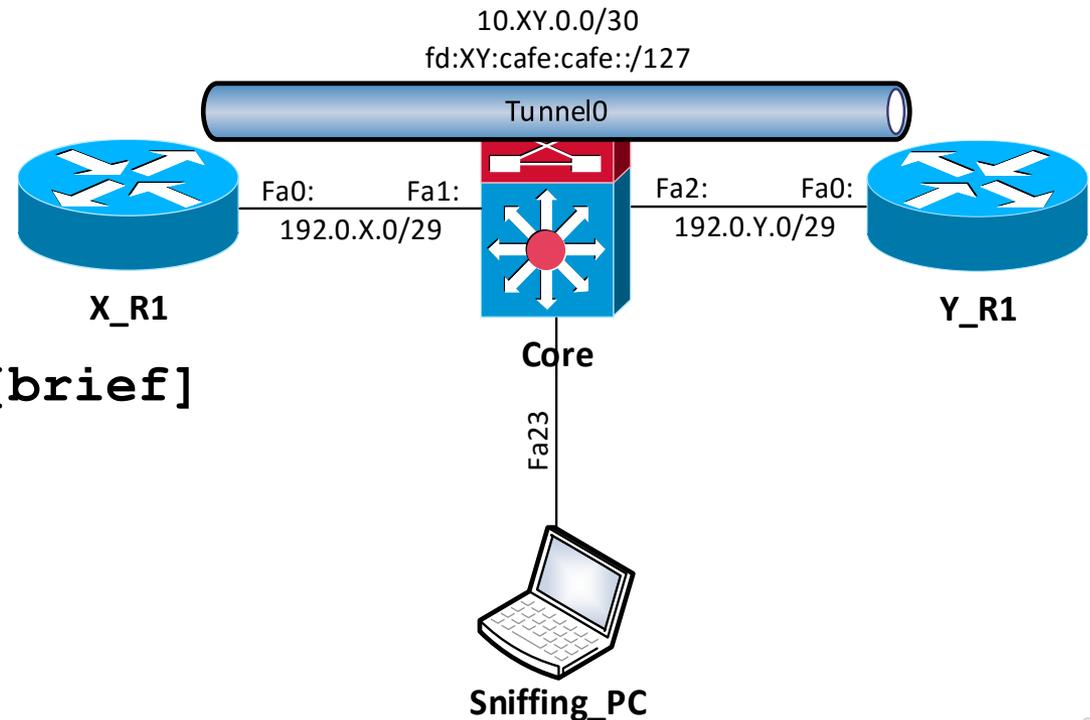


# Lab 6.4: GRE Tunnel

- X\_R1, Y\_R1:

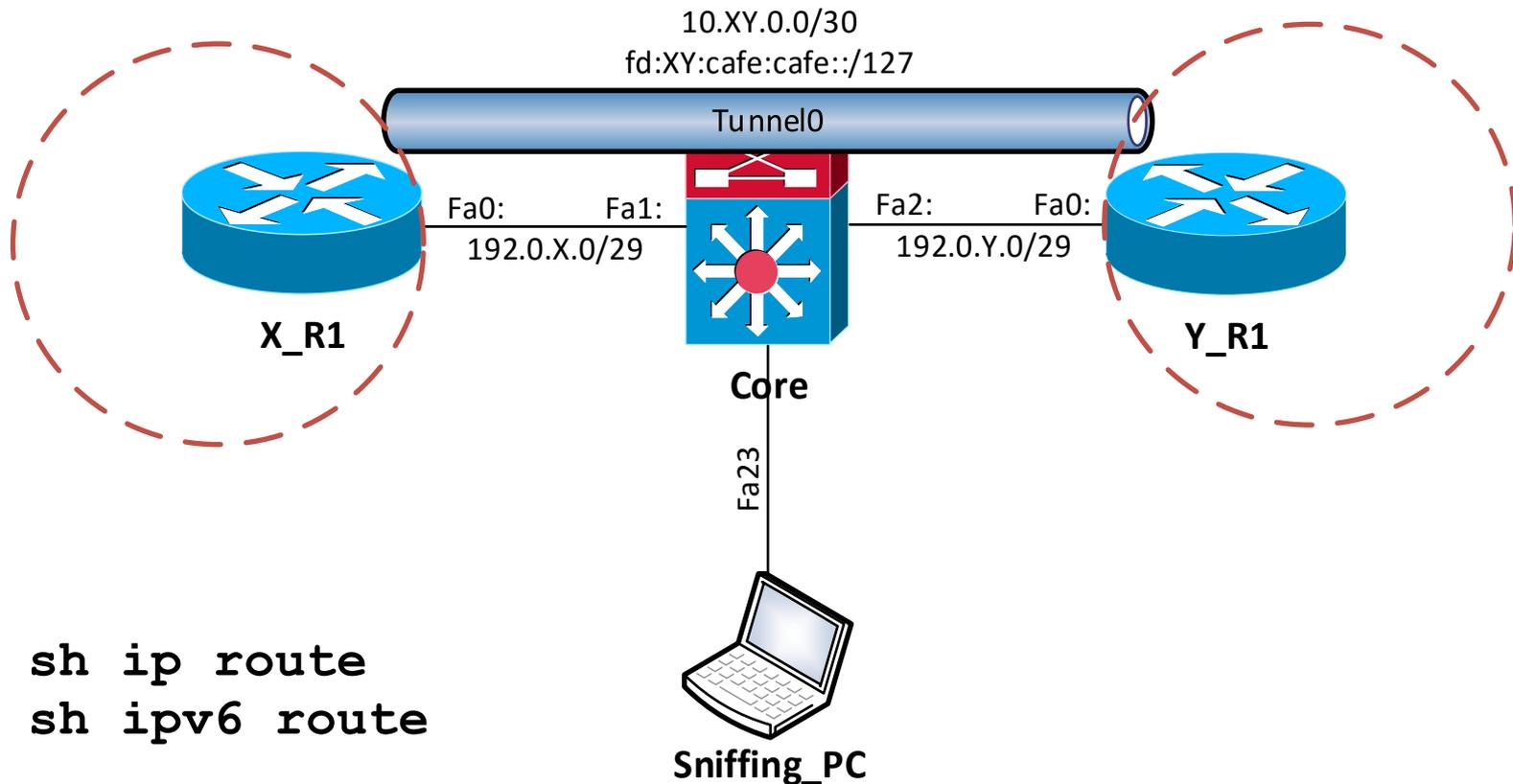
```
(config)# interface Tunnel0
bandwidth 100000
tunnel source fa0
tunnel destination 192.0.{X|Y}.2
ip address 10.XY.0.{1|2} 255.255.255.252
ipv6 address
```

```
# sh ip ro
# sh ip interface [brief]
# ping
```



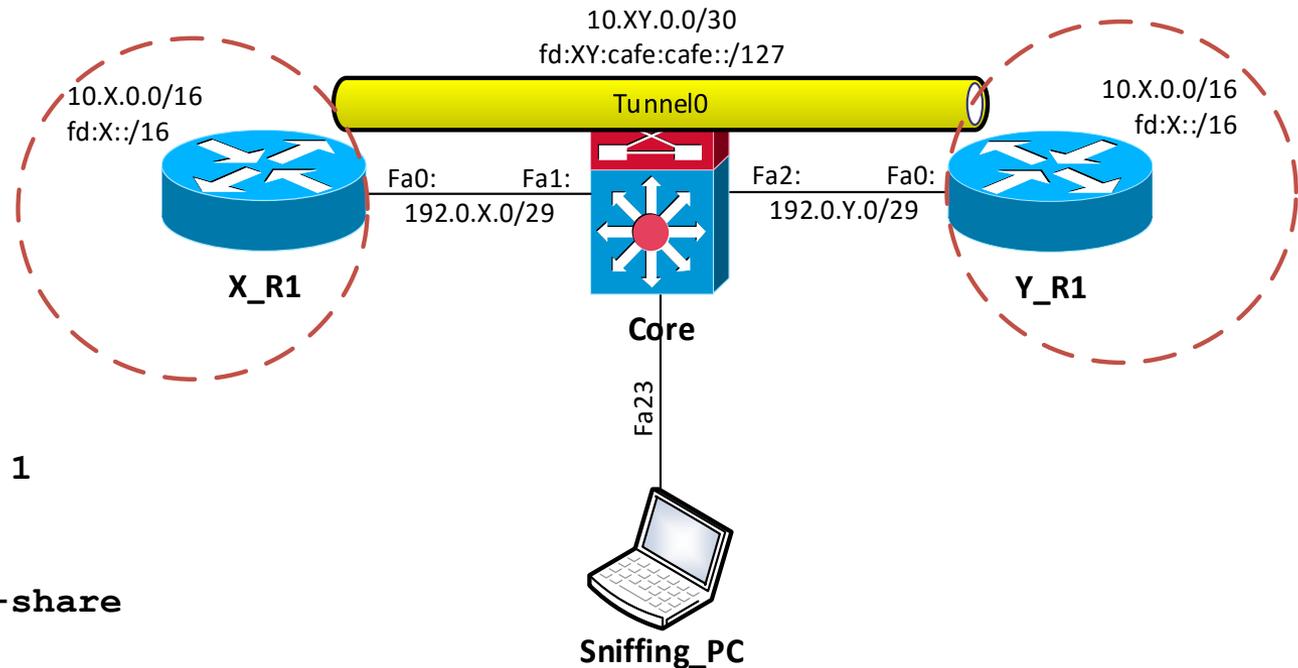
# Lab 6.5: Routing through Tunnel

- Add tunnel interface into routing process on X\_R1, Y\_R1



# Lab 6.6: Site-to-Site VPN (GRE over IPsec)

## ■ X\_R1, Y\_R1:



```
crypto isakmp policy 1
  encr 3des
  hash md5
  authentication pre-share
  group 2
  lifetime 3600
crypto isakmp key 0 cisco address 192.0.{X|Y}.2
crypto ipsec transform-set ESP-AES-SHA esp-aes 256 esp-sha-hmac
crypto ipsec profile KRYPTUJ
  set transform-set ESP-AES-SHA
interface Tunnel0
  tunnel protection ipsec profile KRYPTUJ
```

## ■ Observe Wireshark in Sniffing\_PC



Labs created by [Vladimír Veselý](#) for C1P practice.

Last updated: 2016-03-21