



Laboratories EIGRP



ROUTE Module 2

Lab: EIGRP – Frame Relay

- FR_SW:

```
(conf)# frame-relay switching
```

```
(conf)# inte ser 0/X
```

```
encapsulation frame-relay
```

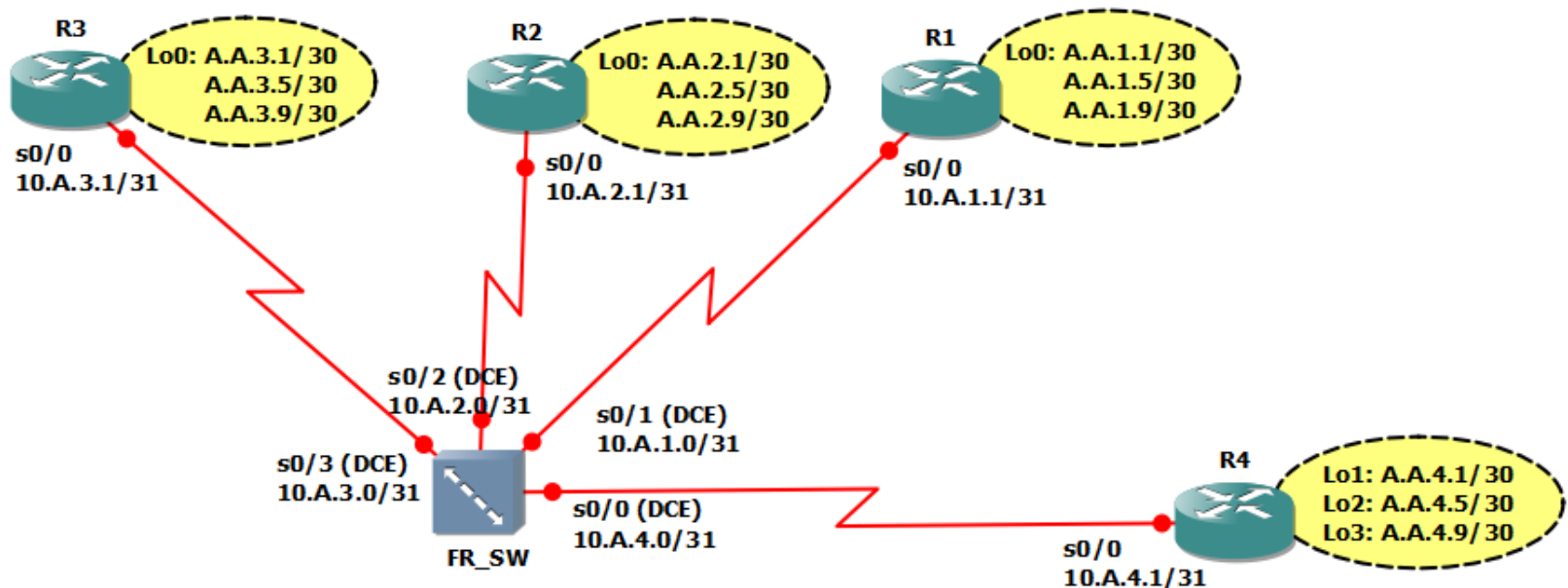
```
frame-relay intf-type dce
```

```
frame-relay route DLCIi interface IFACE DLCIO
```

```
# show frame-relay route
```

- R1, R2, R3, R4:

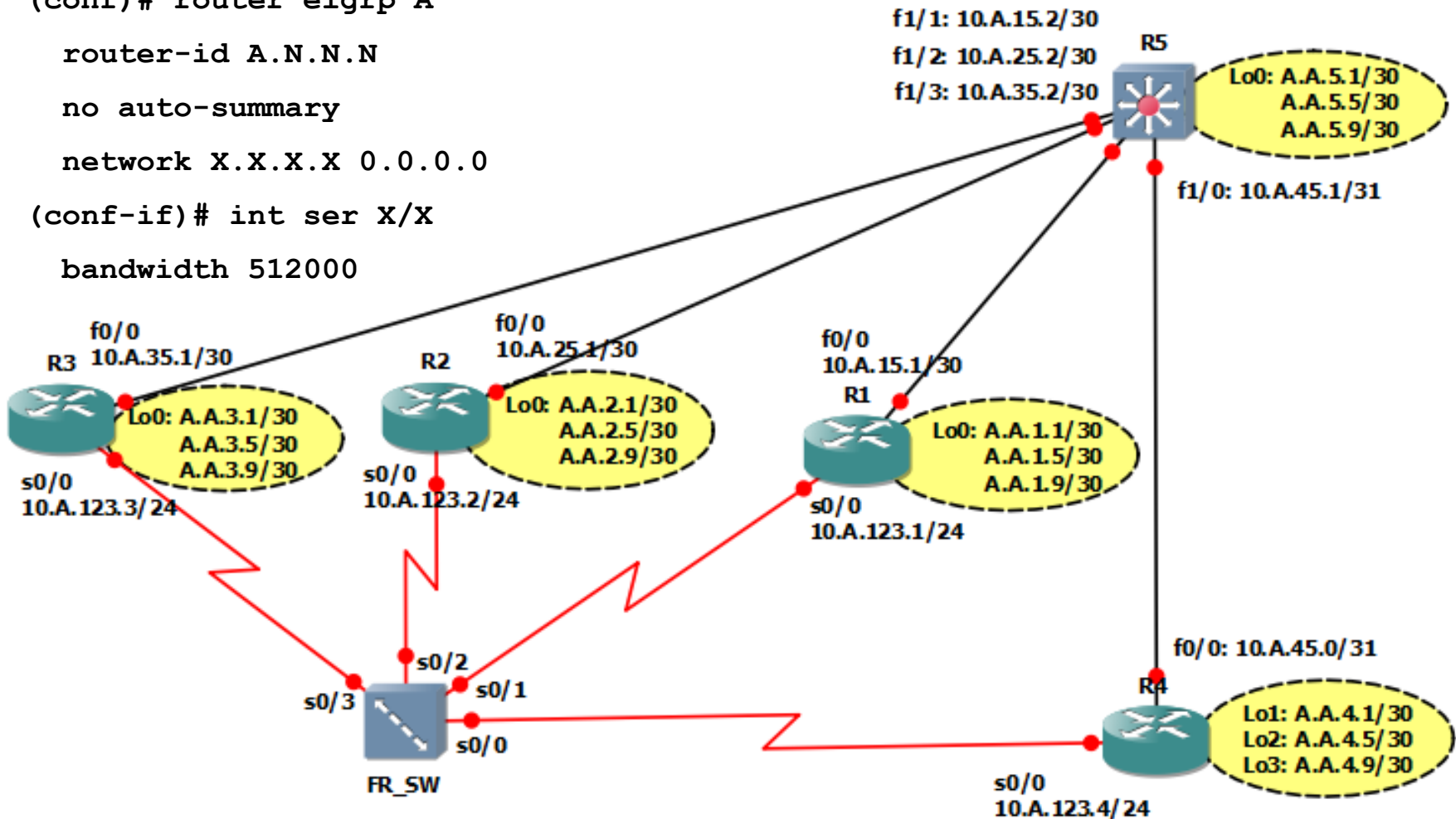
```
# show frame-relay map
```



Lab: EIGRP – Basic Configuration

- R4: redistribute connected
- R1, R2, R3, R5:

```
(conf)# router eigrp A
router-id A.N.N.N
no auto-summary
network X.X.X.X 0.0.0.0
(conf-if)# int ser X/X
bandwidth 512000
```



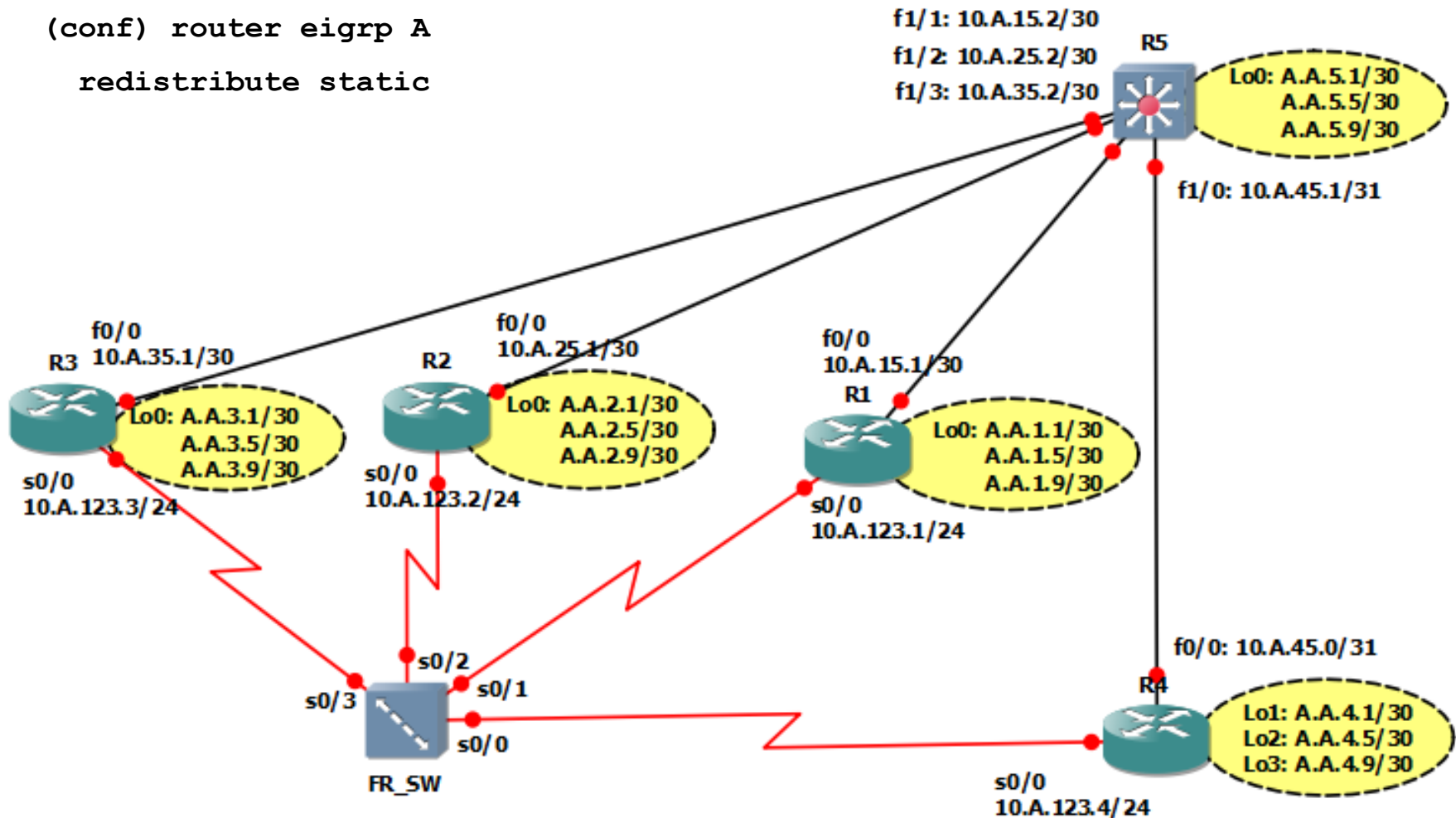
Lab: EIGRP – Default Network

- R5:

```
(conf)# ip route 0.0.0.0 0.0.0.0 Lo0
```

```
(conf) router eigrp A
```

```
redistribute static
```



Lab: EIGRP – Load-balancing, Variance

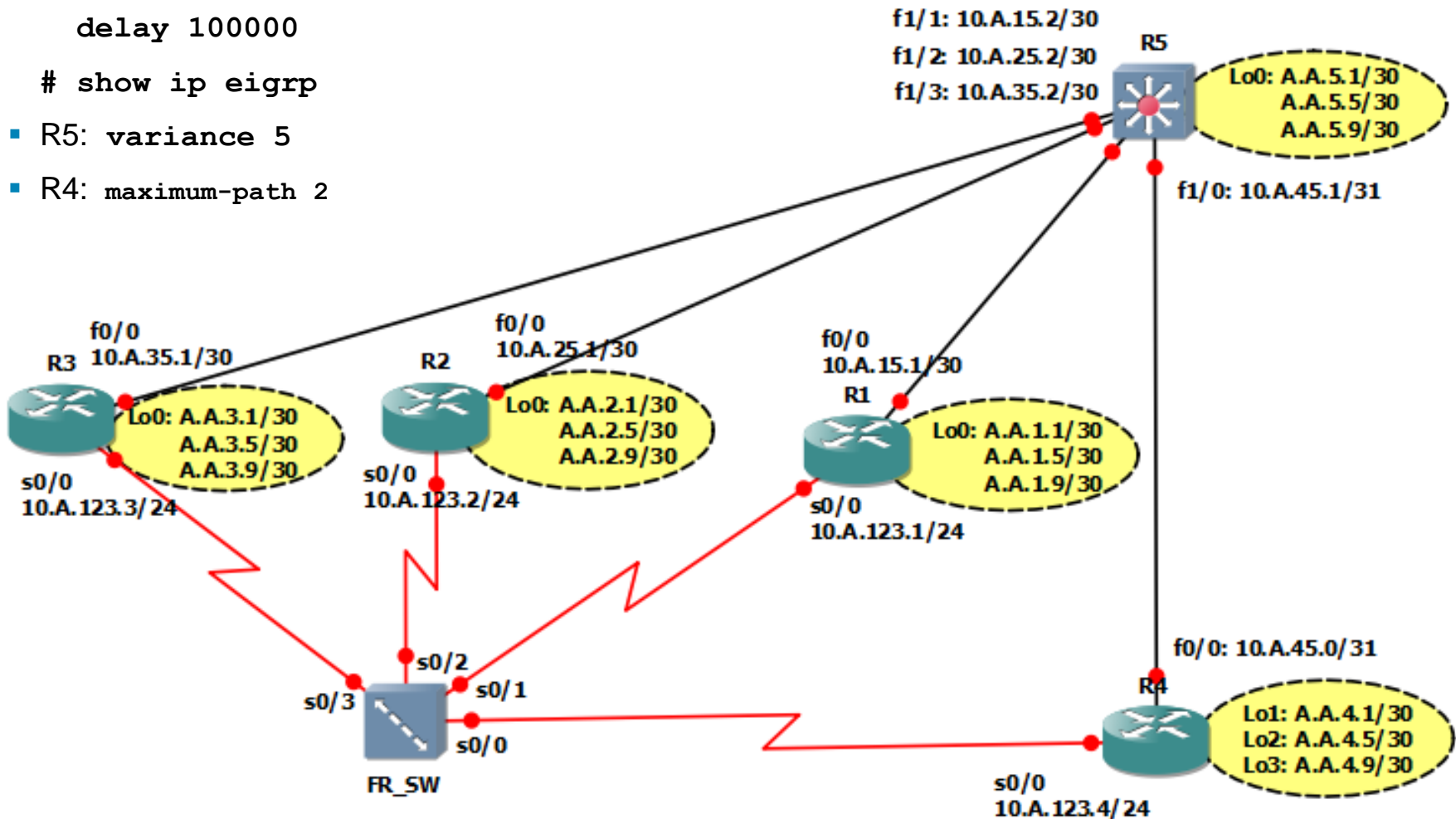
- R4, R5:

```
(conf)# int f{0|1}/0
```

```
delay 100000
```

```
# show ip eigrp
```

- R5: variance 5
- R4: maximum-path 2



Lab: EIGRP – NTP

- R5:

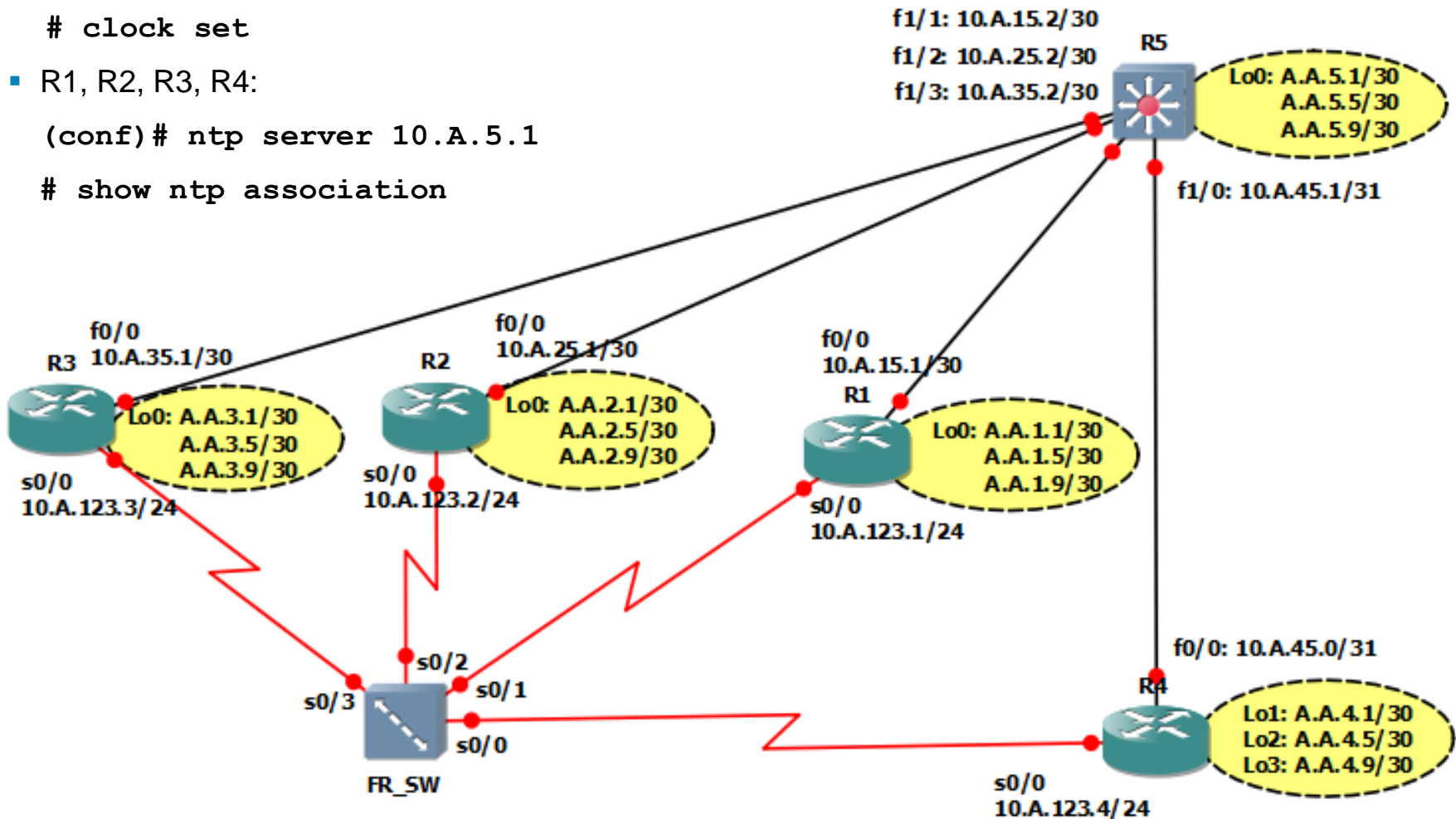
```
(conf)# ntp master 1
```

```
# clock set
```

- R1, R2, R3, R4:

```
(conf)# ntp server 10.A.5.1
```

```
# show ntp association
```



Lab: EIGRP – Authentication

- R1, R2, R3, R4, R5:

```
(conf)# key chain KLICENKA
```

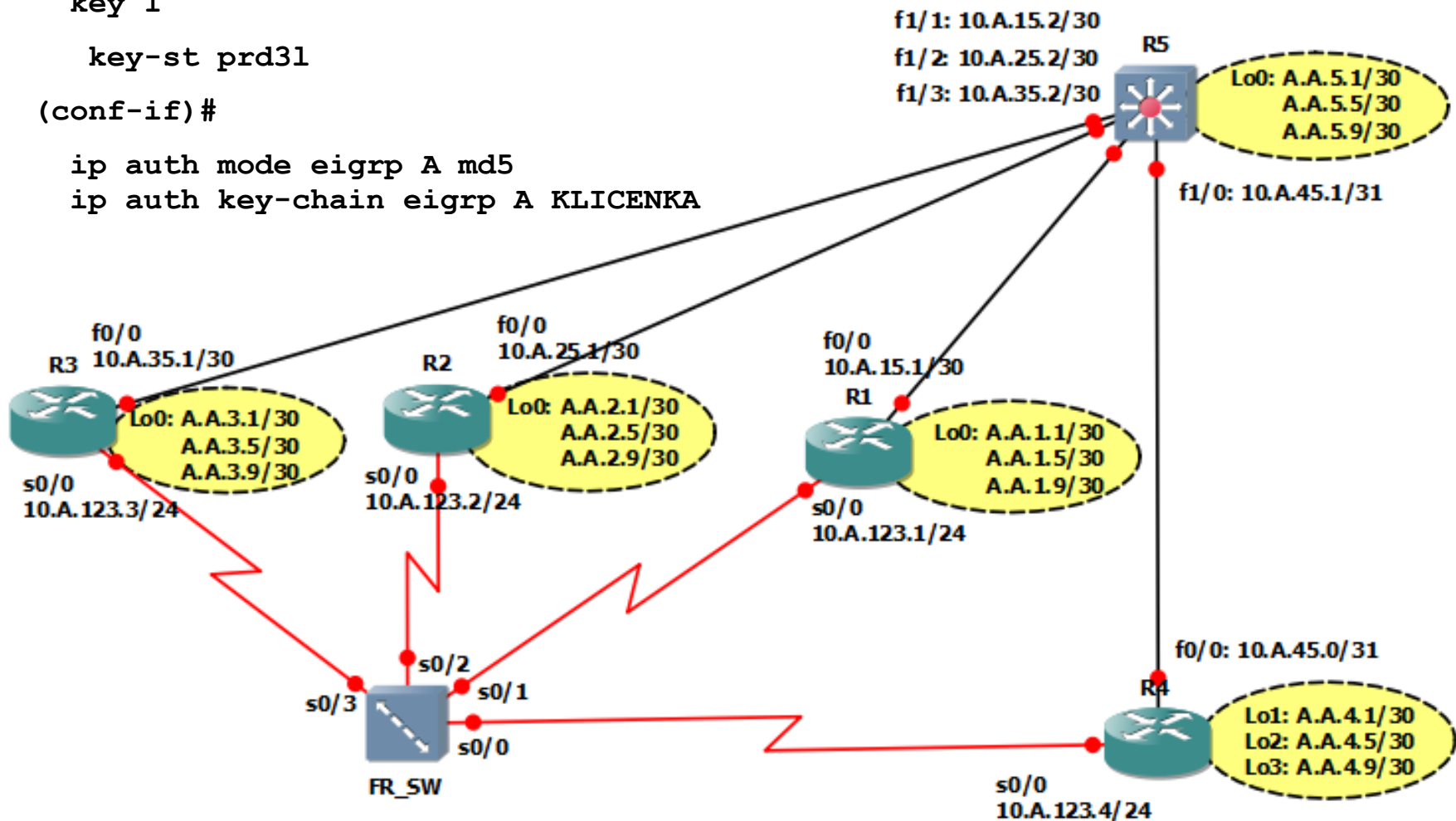
```
key 1
```

```
key-st prd31
```

```
(conf-if)#
```

```
ip auth mode eigrp A md5
```

```
ip auth key-chain eigrp A KLICENKA
```

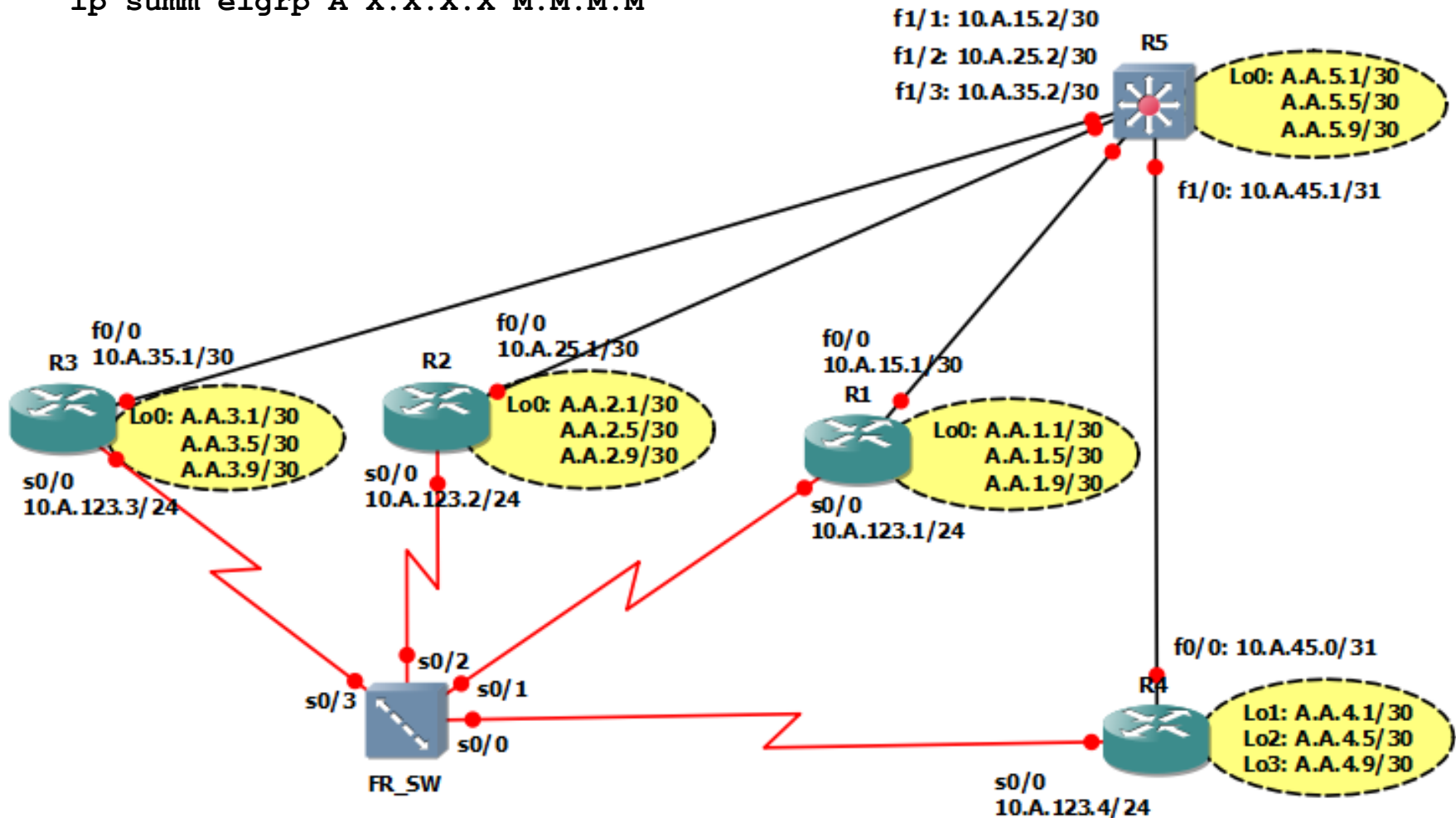


Lab: EIGRP – Summarization

- R1, R2, R3, R4, R5:

(conf-if)#

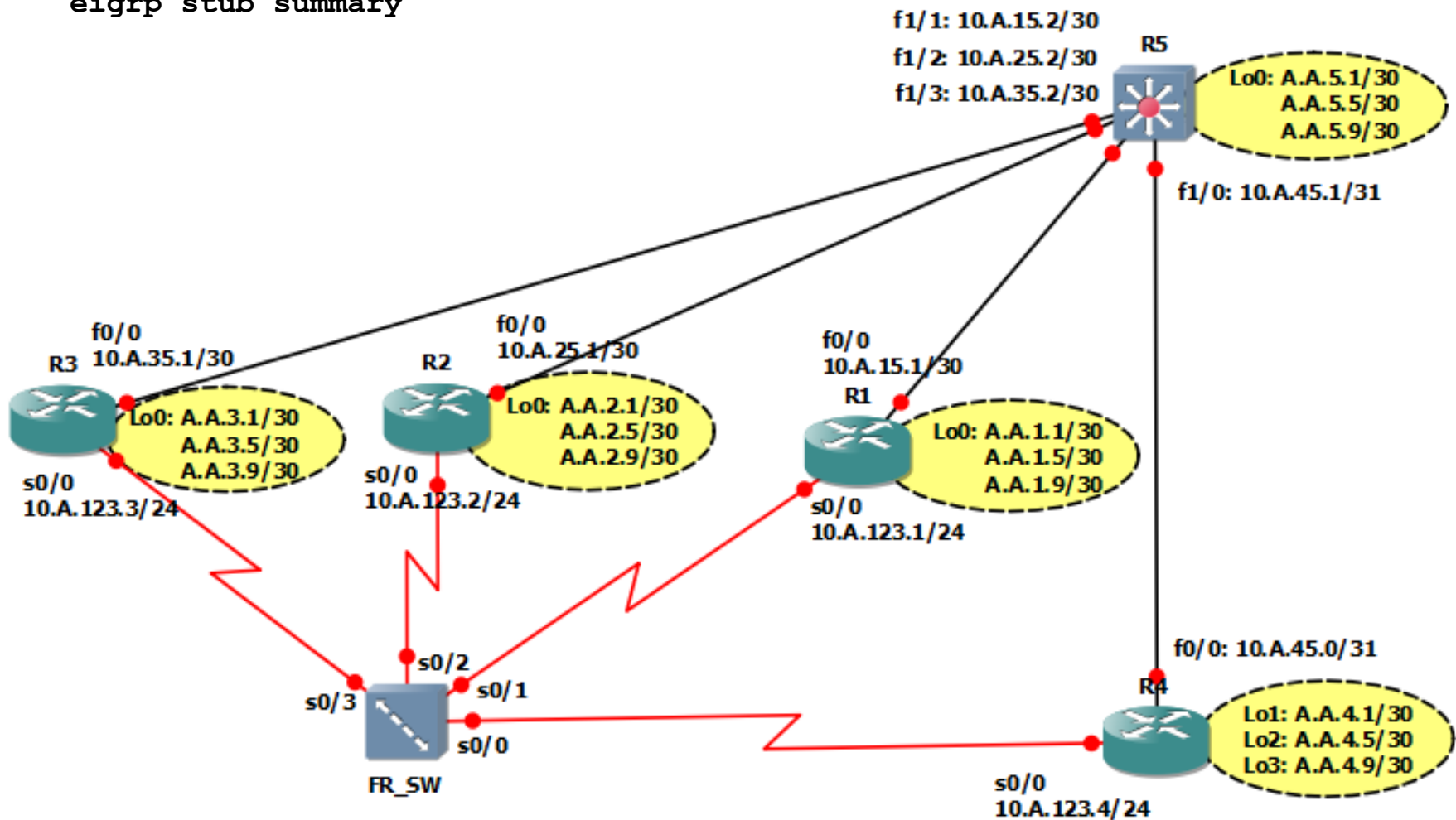
```
ip summ eigrp A X.X.X.X M.M.M.M
```



Lab: EIGRP – Stub

- R3:

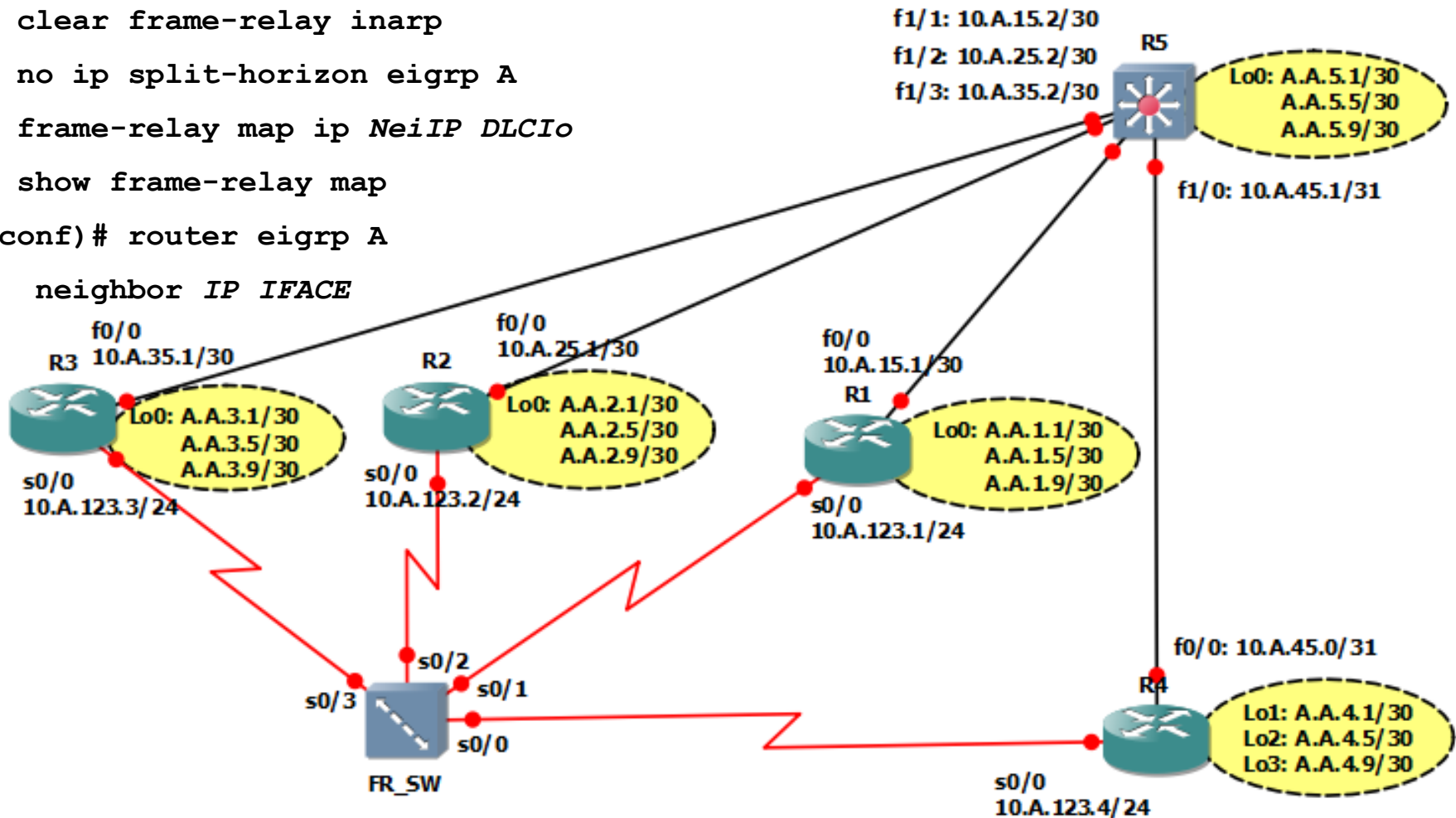
```
(conf)# router eigrp A
eigrp stub summary
```



Lab: EIGRP – NBMA Configuration

- R1, R2, R3, R4:

```
(conf)# int serial 0/0
no frame-relay inverse-arp
# clear frame-relay inarp
no ip split-horizon eigrp A
frame-relay map ip NeiIP DLCIo
# show frame-relay map
(conf)# router eigrp A
neighbor IP IFACE
```





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

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