

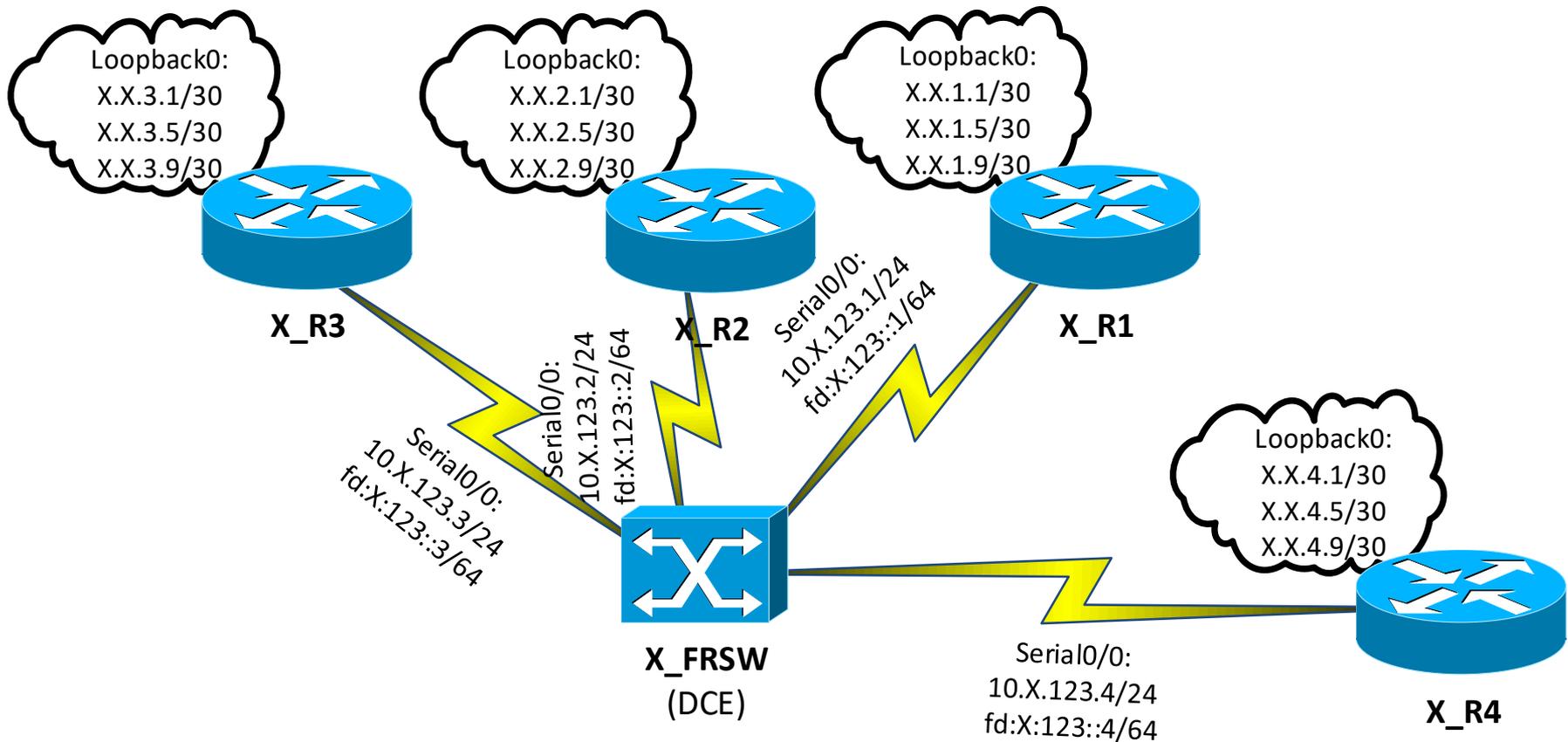


# Laboratories EIGRP



ROUTE Module 2

# Lab 2.0f: Frame-Relay Switch ①



# Lab 2.0f: Frame-Relay Switch ②

- R1-R4, FRSW:

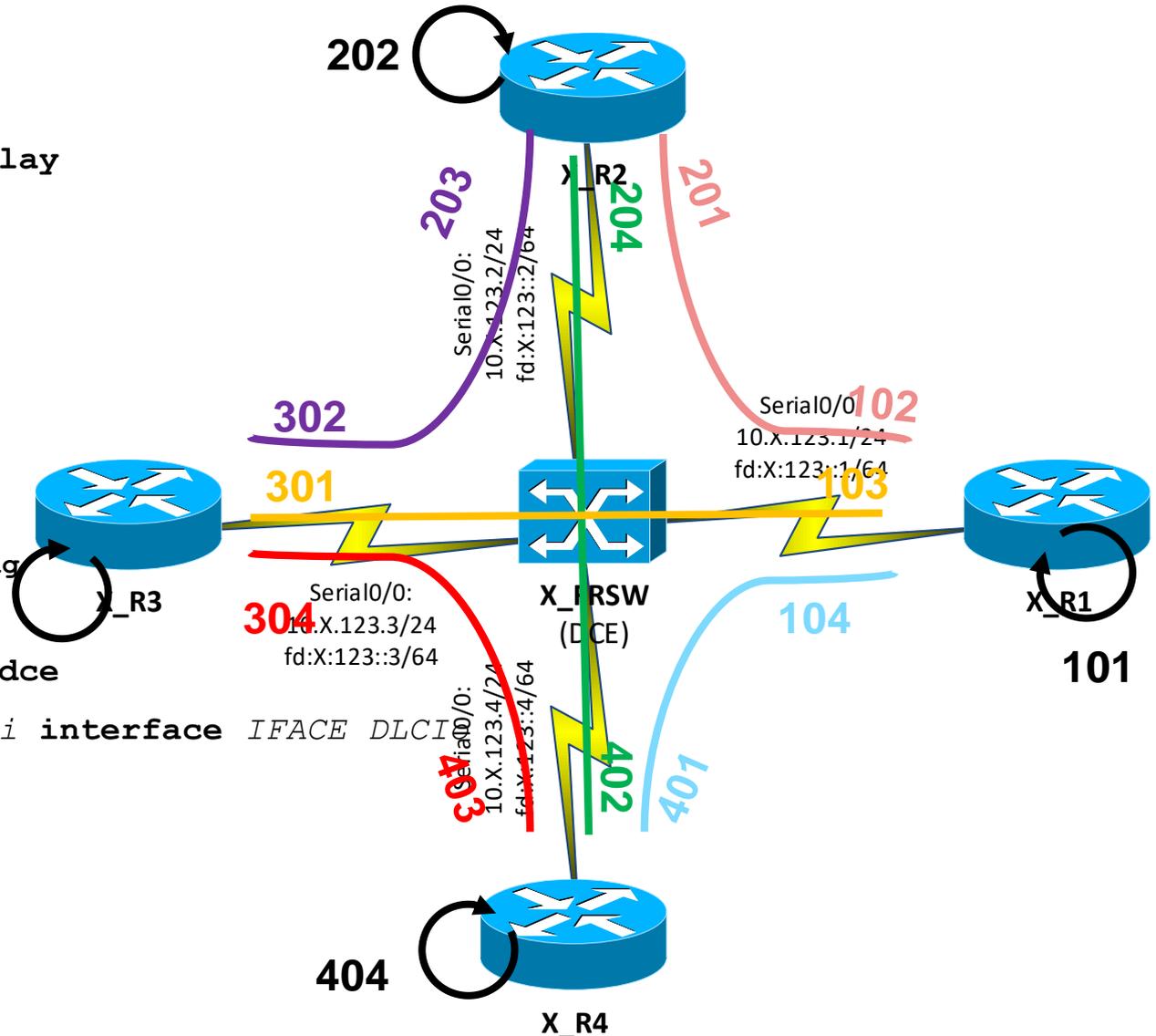
```
(conf)# inte ser 0/X
encapsulation frame-relay
```

- FRSW:

```
(conf)# frame-relay switching
(conf-if)#
frame-relay intf-type dce
frame-relay route DLCIi interface IFACE DLCIj
# show frame-relay route
```

- R1, R2, R3, R4:

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



## Lab 2.1f: EIGRP – Basic Configuration

- R1-R5:

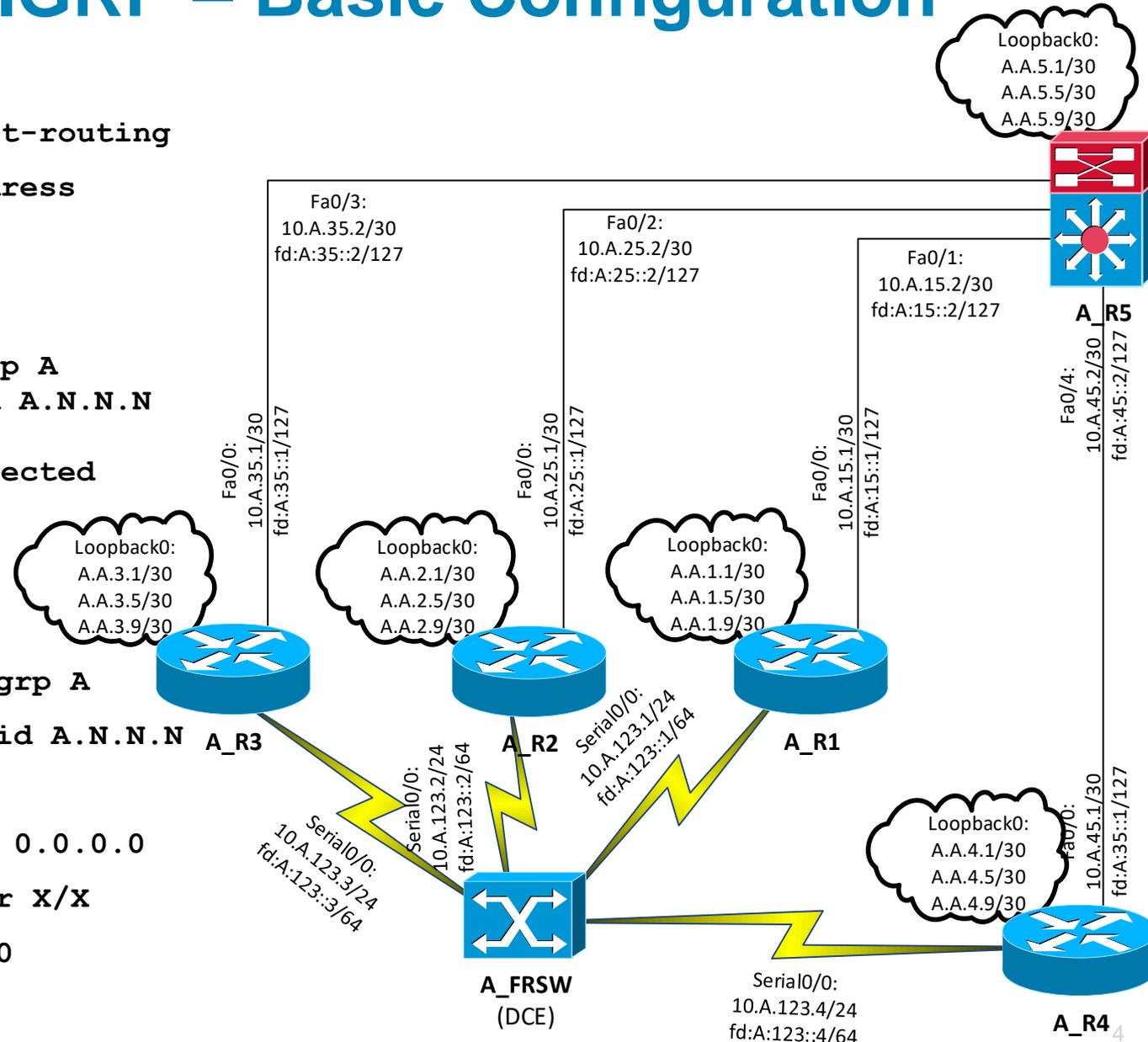
```
(conf)# ipv6 unicast-routing
(conf-if)# ipv6 address
```

- R4:

```
(conf)# router eigrp A
{eigrp} router-id A.N.N.N
no auto-summary
redistribute connected
```

- R1, R2, R3, R5:

```
(conf)# router eigrp A
{eigrp} 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
```

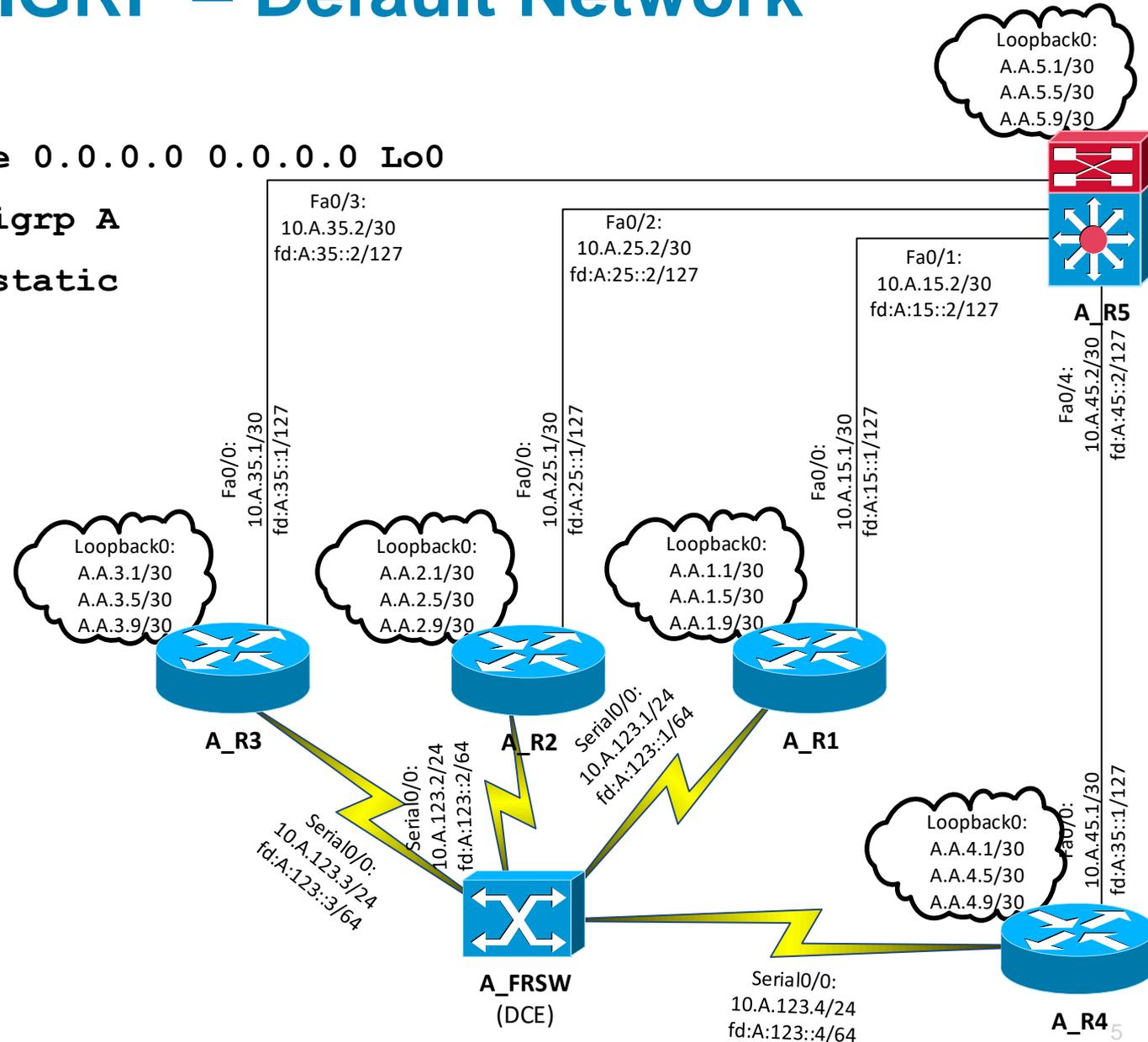


## Lab 2.2f: EIGRP – Default Network

- R5:

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

```
(conf) router eigrp A
 redistribute static
```



# Lab 2.3f: EIGRP – Load-balancing, Variance

## EIGRP A

- R4, R5:

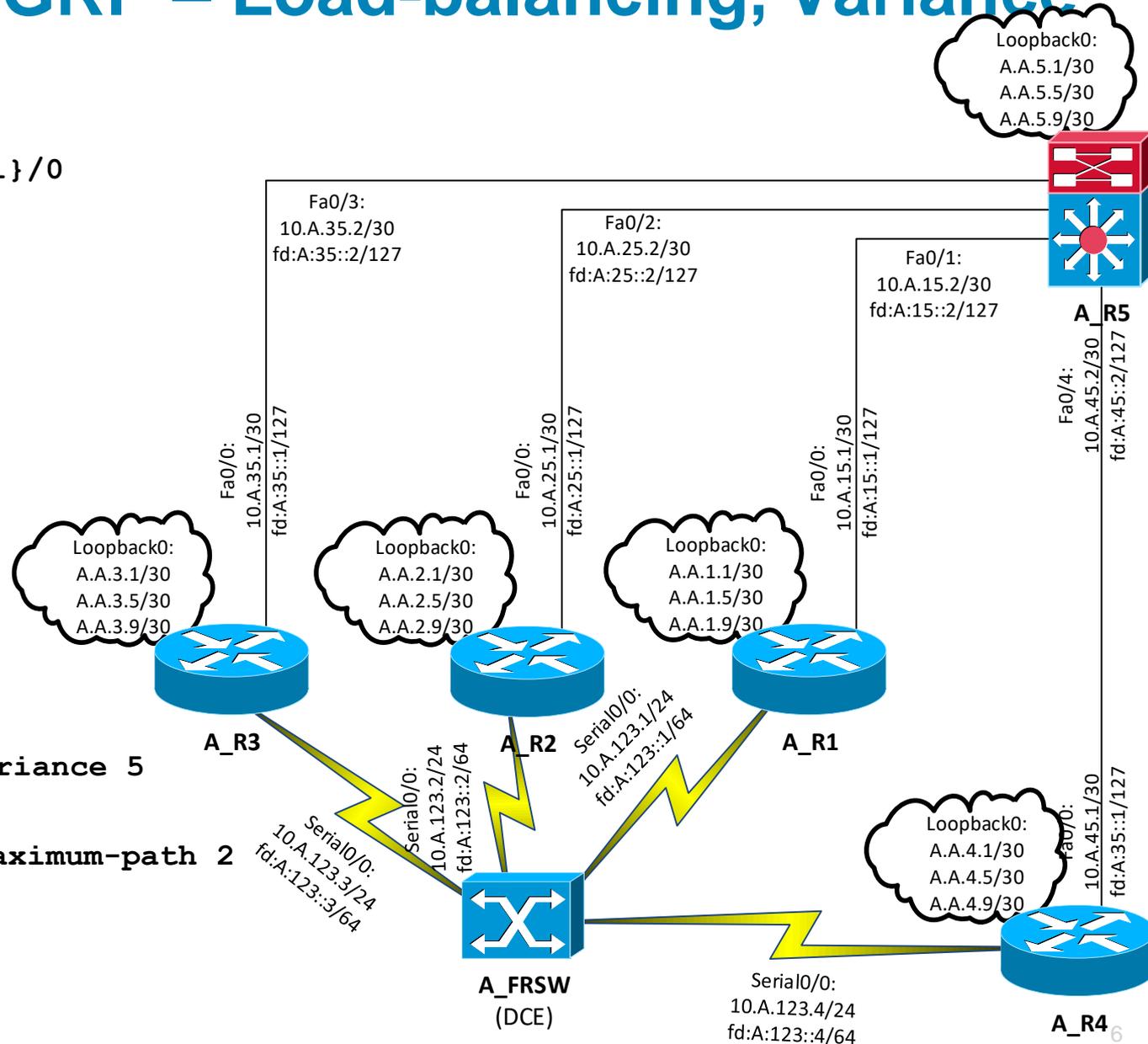
```
(conf)# int f{0|1}/0
    delay 100000
# show ip eigrp
```

- R5:

```
(conf-router)# variance 5
```

- R4:

```
(conf-router)# maximum-path 2
```

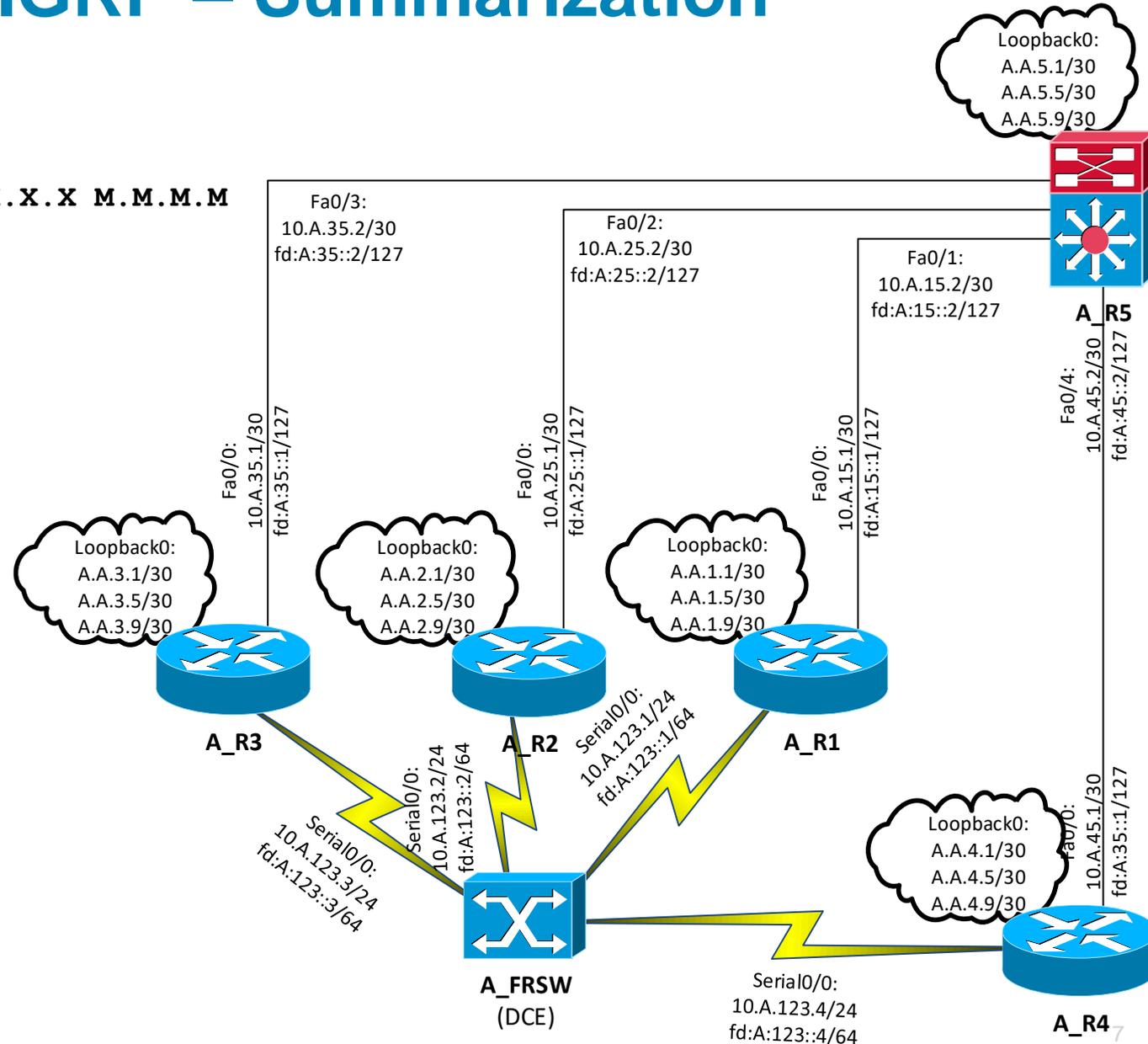


## Lab 2.4f: EIGRP – Summarization

- R1, R2, R3, R4, R5:

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

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

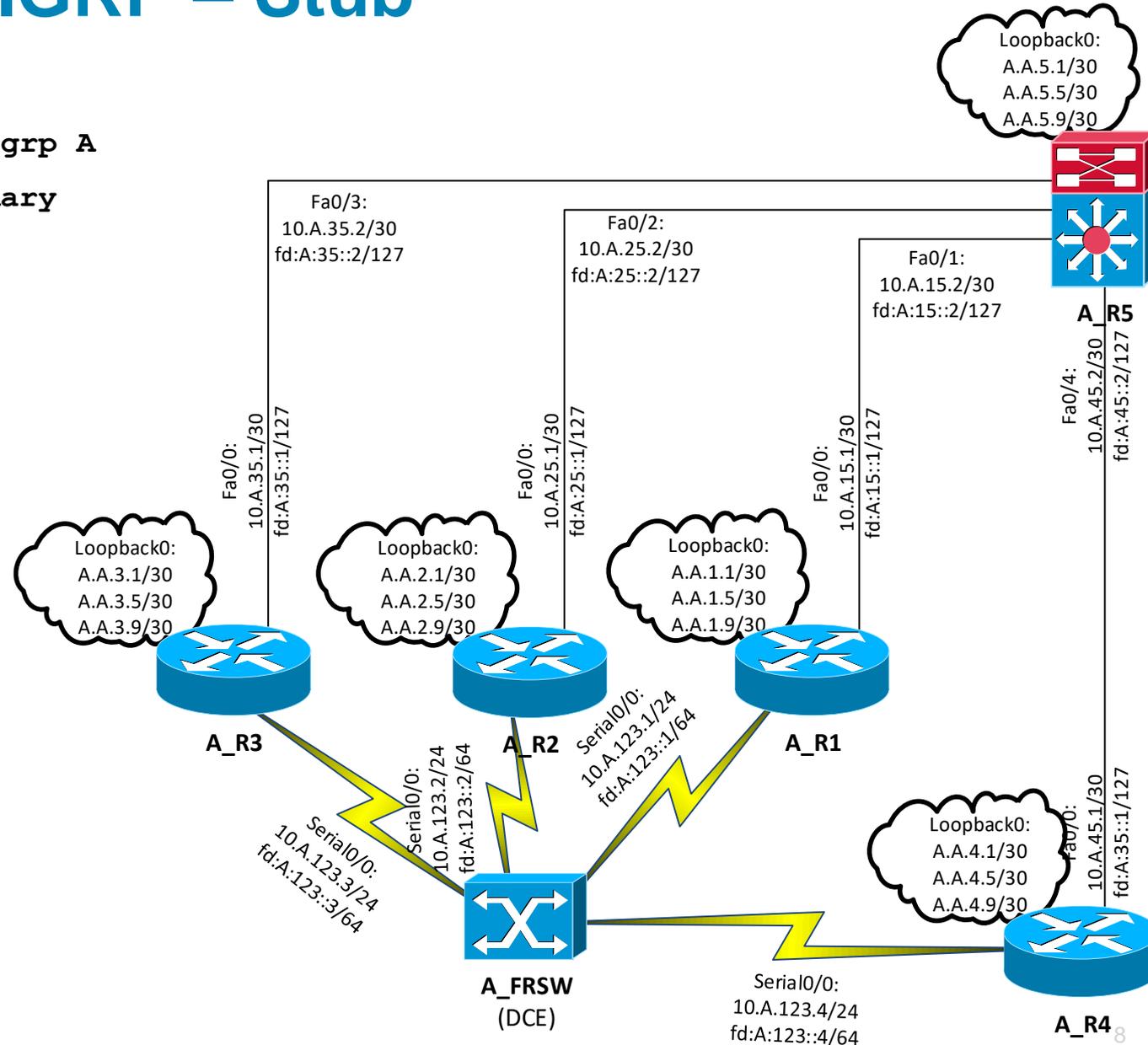


# Lab 2.5f: EIGRP – Stub

## EIGRP A

- R2:

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

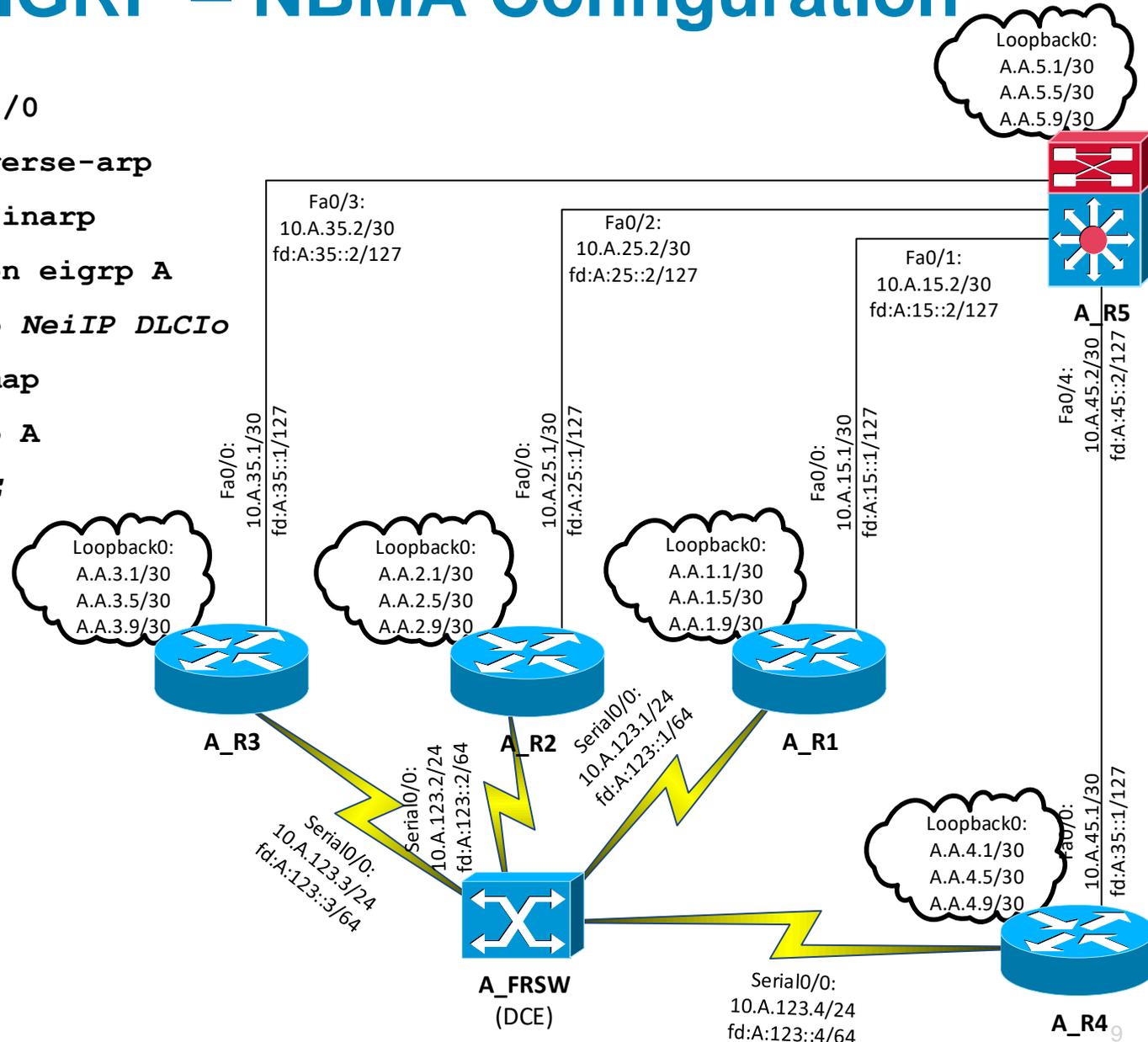


# Lab 2.6f: EIGRP – NBMA Configuration

## EIGRP A

- 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
```



# Lab 2.7: EIGRP – NTP

- R5:

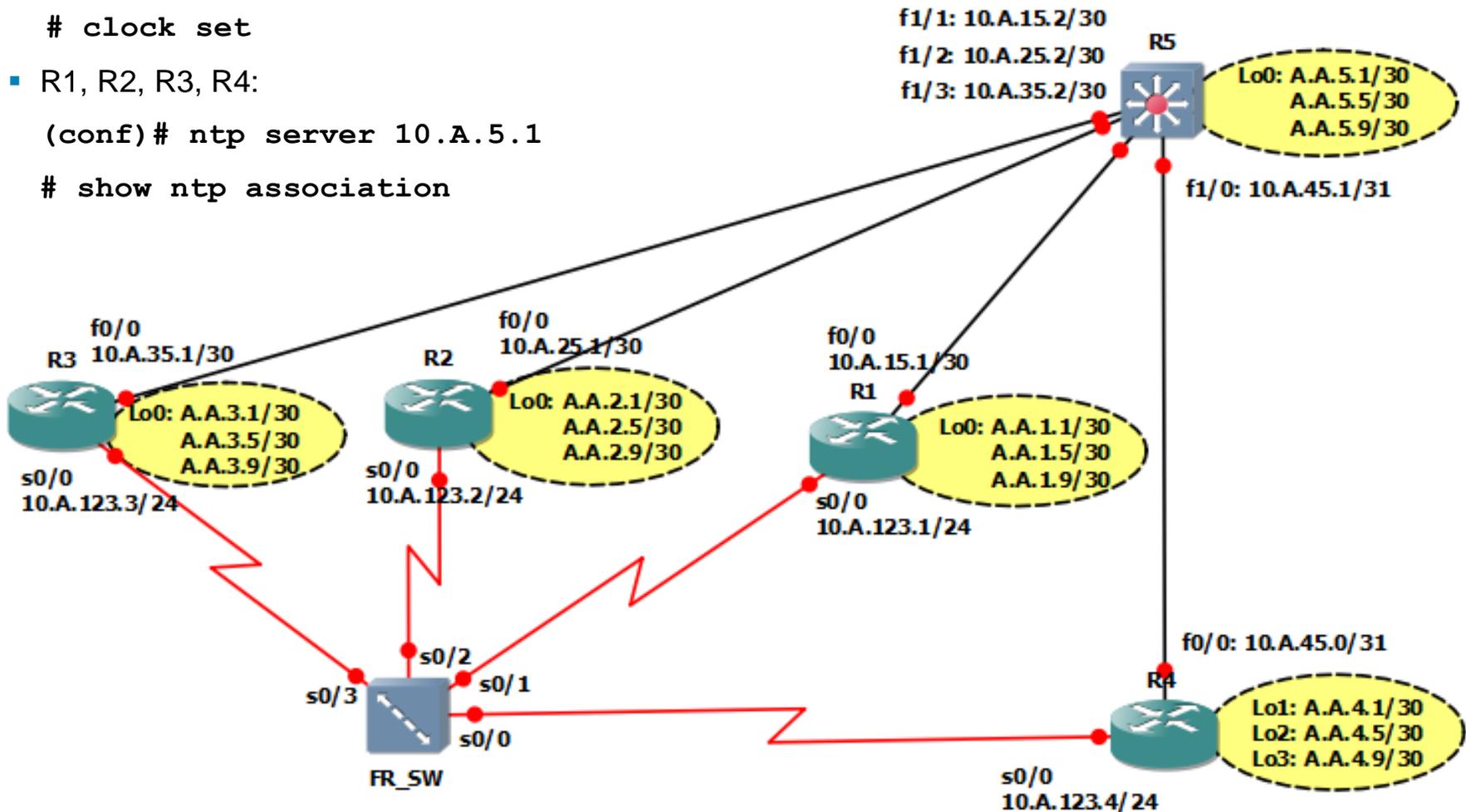
```
(conf)# ntp master 1
```

```
# clock set
```

- R1, R2, R3, R4:

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

```
# show ntp association
```



# Lab 2.7: EIGRP – Authentication

- R1, R2, R3, R4, R5:

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

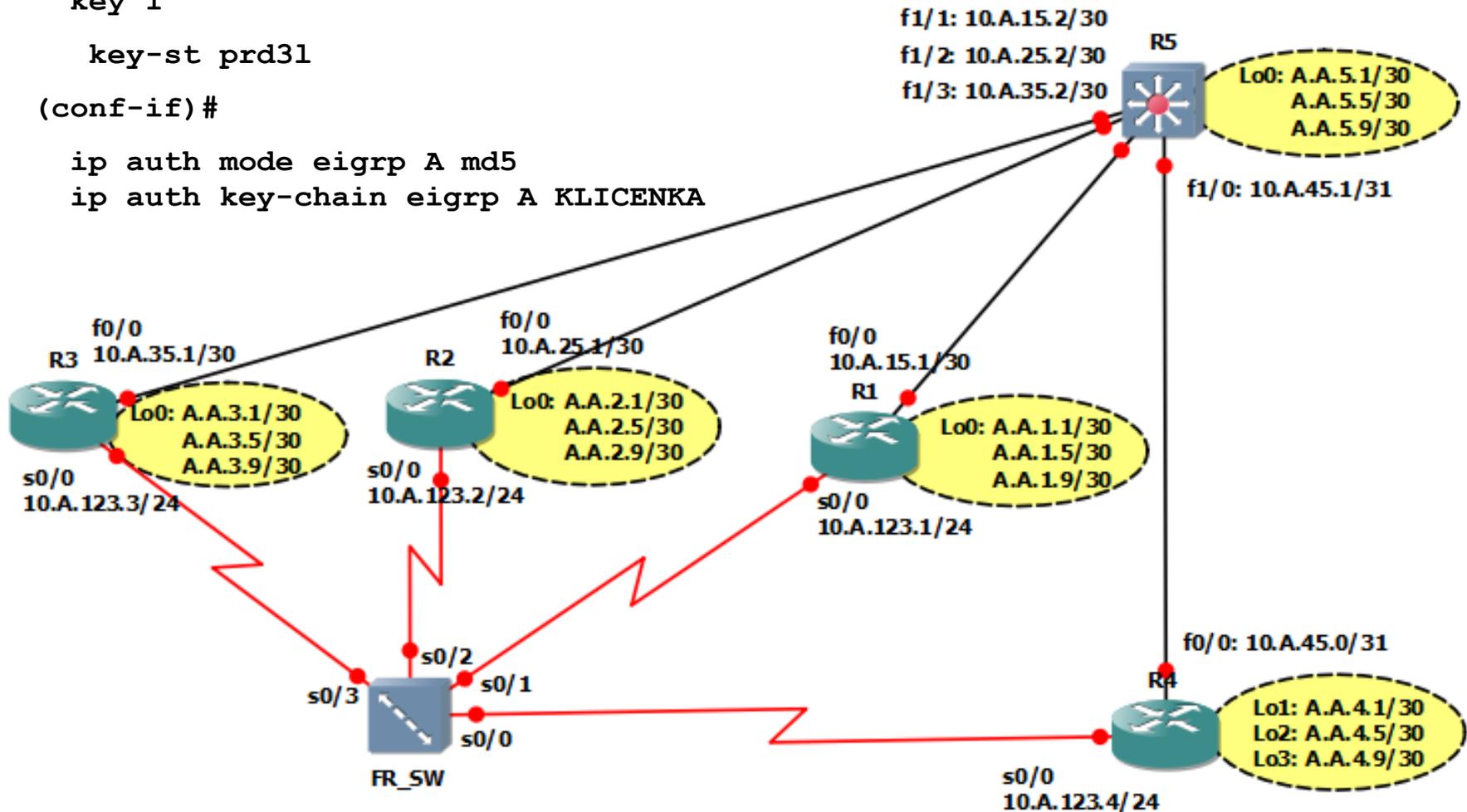
```
key 1
```

```
key-st prd31
```

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

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

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





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

Last update: 2017-09-25