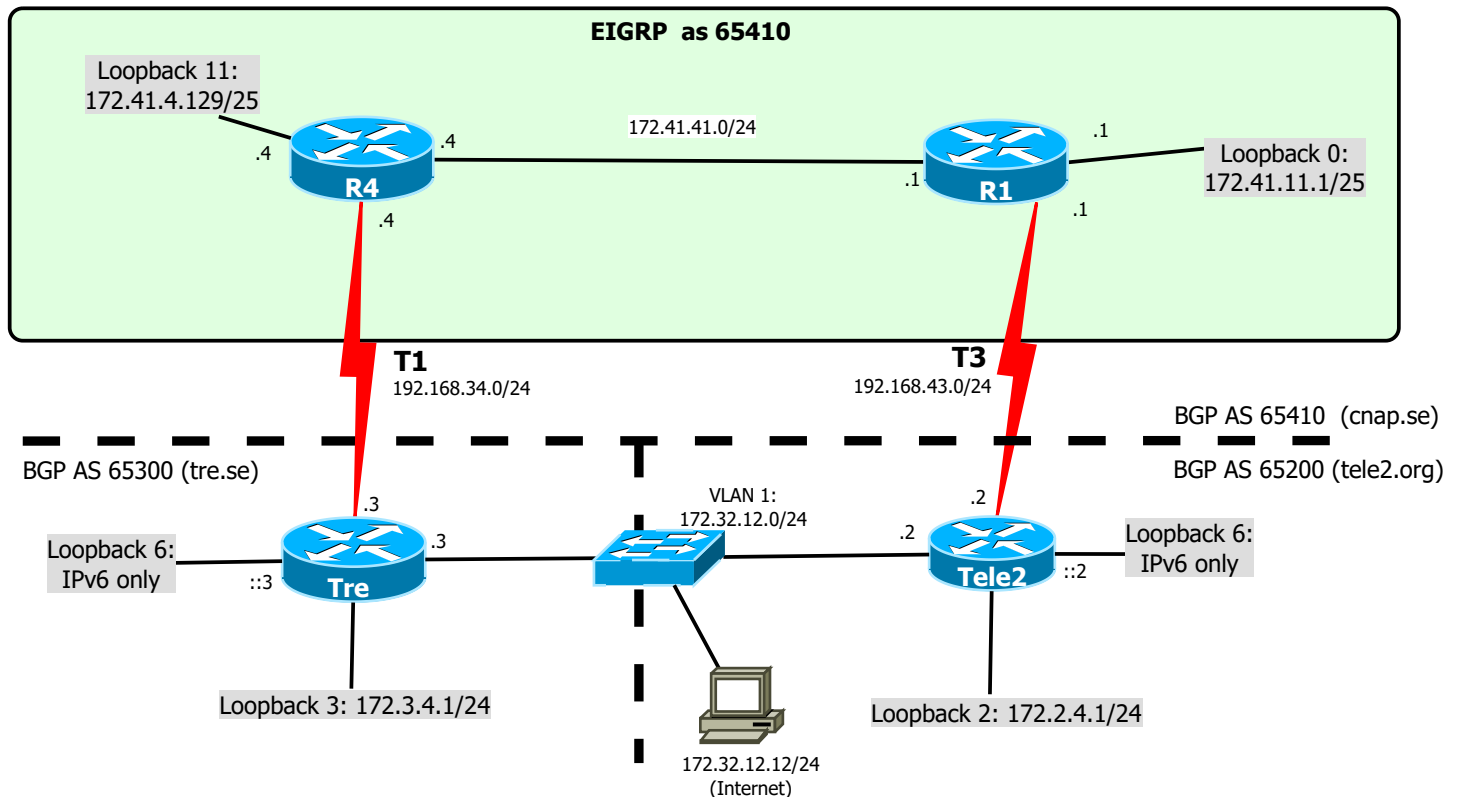


CCNP Route BGP Challenge



** REQUIREMENTS

- 00. Do basic configuration: interface descriptions, no DNS lookup, synchronous logging
- 01. Do basic management: passwords (and, if applicable, users), ssh version 2, no telnet, no http
- 02. Configure according to the diagram shown above.

** EIGRP

- 03. Disable auto-summary in EIGRP.
- 04. Configure passive and non-passive interfaces for EIGRP as appropriate, including loopbacks.

** BGP

- 05. Configure iBGP in AS 65100
- 06. Configure eBGP peers between AS's 65410, 64300 and 65200
- 07. Make 'Tre' BGP-announce 172.3.0.0 /16
- 08. Make 'Tele2' announce 172.2.0.0 /16
- 09. Make both 'Tele2' and 'Tre' announce the 172.32.0.0/16 network
- 0A. Make R4 and R1 announce 172.41.0.0 /16 and nothing else (especially no default route)
- 0B. Make 'Tele2' and 'Tre' announce to R1/R4 a default gateway to them self;
no default-information should be exchanged between Tele2 and tre;
TIP: in 'Tele2' and 'Tre' use the command: **neighbor x.x.x.x default-originate**
- 0C. Comment all peers by using: **neighbor x.x.x.x description**
- 0D. Use Route-maps/Local-preference on R1 and R4 to prefer the other T# link
- 0E. Try to use MED route-maps on R1 and R4 to inflate traffic to return on the other T# link
- 0F. Prepend local AS-number 5 times in AS-path of announcements over the T1 link

** IPv6

- 10. Make 'Tre' and 'Tele2' peer using IPv6
- 11. Make 'Tre' and 'Tele2' announce their ipv6-loopback networks
- 12. Comment by using **neighbor a:b::c:d description**
- 13. test by using ping ... source ...

SOME CHECKPOINT

- A) ping everything from everywhere
- use ping ... source ...
- B) No static routes, no redistribution
but static nul0 rules are OK like
"ip route ???? ???? null 0"