

SYSNET NOTES

System And Networking Notes With Interview Questions

EIGRP Configuration

Syntax

Router(config)#router eigrp <Autonomous-system-number>

Router(config-router)#network <network address>[wild card-mask] (wild card mask is optional)

Router(config-router)#no auto-summary

Router(config-router)#variance <multiplier> (Optional)

To influence the metric,it is possible to configure bandwidth on the interfaces:

Router(config)#Interface<interface>

Router(config-if)#bandwidth<BW in kbps>

Configure Default paths in EIGRP

Method 1:

Specify a default network:

Router(config)# ip default-network < network_address >

Method 2:

Create a static default route and then include network 0.0.0.0 in

EIGRP:

Router(config)# ip route 0.0.0.0 0.0.0.0 < next_hop_ip >

Router(config)# router eigrp < as_no >

Router(config-router)# network 0.0.0.0

To view exchange process

Router#debug eigrp packets

To view update process

Router#debug ip eigrp

To view the neighbor table:

Router#show ip eigrp neighbors

To view the EIGRP Topology Table, containing all EIGRP route information:

Router# show ip eigrp topology

To view information on EIGRP traffic sent and received on a router:

Router# show ip eigrp traffic

To view the bandwidth, delay, load, reliability and MTU values of an interface:

Router# show interface s0

To view information specific to the EIGRP protocol:

Router# show ip protocols

This command provides us with information on EIGRP timers, EIGRP metrics and summarization

To view the IP routing table:

Router# show ip route

To view a specific route within the IP routing table:

Router# show ip route 10.3.0.0

To debug EIGRP in realtime:

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Router# debug eigrp neighbors

Router# debug eigrp packet

Router# debug eigrp route

Router# debug eigrp summary