

# SYSNET NOTES

*System And Networking Notes With Interview Questions*

## EIGRP summarization

By default, Auto summarizing is enabled in EIGRP. Automatic summarization can be disabled using the following command:

**Router(config)# router eigrp 100**

**Router(config-router)# no auto-summary**

"No auto-summary" command is needed because by default EIGRP will behave like a classfull routing protocol which means it won't advertise the subnet mask along the routing information. For example 1.1.1.0/24 and 2.2.2.0/24 will be advertised as 1.0.0.0/8 and 2.0.0.0/8. Disabling auto-summary will ensure EIGRP sends the subnet mask along

Summaries can also be produced manually on any interface

### Syntax:

**Router(config)# interface < interface >**

**Router(config-if)# ip summary-address eigrp < as-no>**

**<summarized\_network\_ip> <summarized\_subnet\_mask>**

### Example:

**Router(config)# interface fa 0/0**

**Router(config-if)# ip summary-address eigrp 100 79.0.0.0 255.0.0.0**

The manually-created summary route is not advertised as an internal EIGRP route, but instead is classified as an EIGRP summary route. An EIGRP summary route has an Administrative Distance of **5**.

## Labs

- [EIGRP Auto summarization](#)
- [EIGRP summarization](#)

## Related articles

- [EIGRP Passive Interface](#)
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