CN NOTES BY PROF. AKN DOTE POGE

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d.d. TCWB	Internet Contro	Message Protocol

-> A protocol works at network layer and is generally used for sending.

1) Error Messeges

2) Query Messages

Error Messages: This messages are generally send to the sender to intimate the sender that the packet send are discarded and will not be delivered further to Receiver.

Types of Error Reporting Messages:

- i) Destination Un reachable formate: (refer notes. page 23
- ii) Source Quench: (Header. Refer note. page 23).

> sender is on a fast now and receiver is on a slow network, due to this Rate of sending the padret is very fast as compare to rate of receiving the packet.

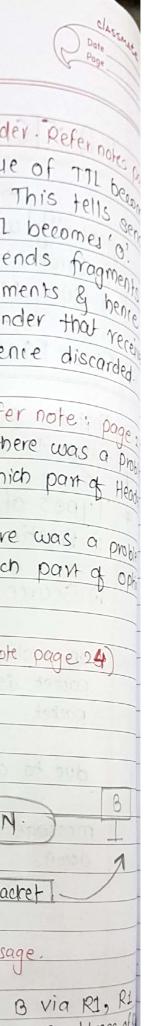
> As shown in diag. the packets are colliding due to conjection (Bottolenack problem).

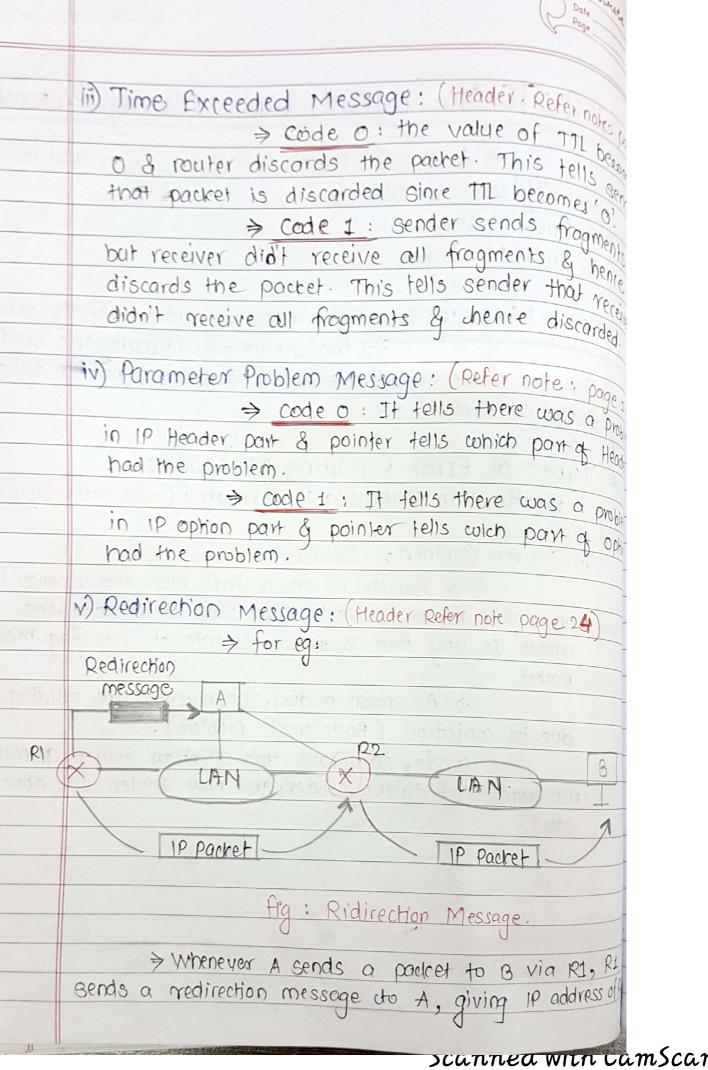
> \$0, to avoid this situation source quench message send to the sender and now sender will spu down.

collosion.

Receiver.

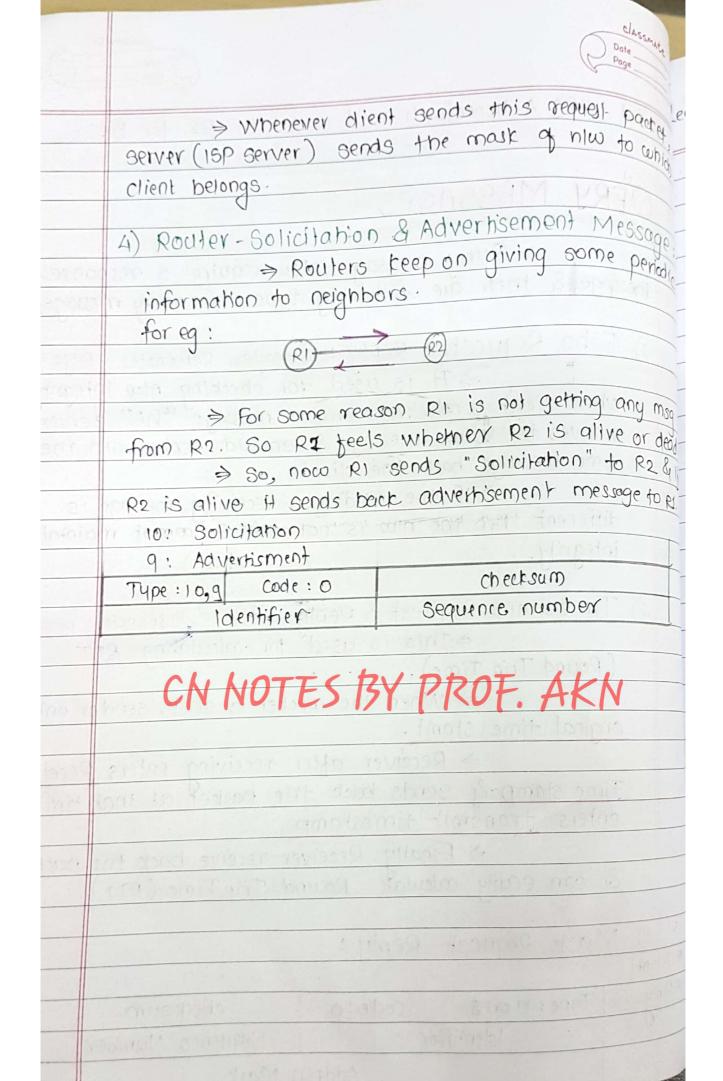
Boffleneck problem





CN NOTES BY PROF. AKN DOTE POGE and telling A Henceforth Bend packet to R2 for B. DERY MESSAGES: ⇒ Query messages also require a response message & their are following types of query messages. 1) Echo Request & Reply: (Header. Refernotes: page 25) ⇒ It is used for checking nlw integrity When client sends echo reques message "hi" server receives the same message & should reply with the Same message back the client. > If the sending & receiving message is different then the new is not safe & cannot maintain integrity. Timestamp Request & Reply: (Header Refer notes: page 25 > This is used for calculating RTT (Round Trip Time). > When the packet is sent, sender enters original time stamt. > Receiver after receiving enters Receiving Time stamp & sends back the packet at that time enters transmit timestamp > Finally Receiver receive back the packet & can early calculate Round Trip Time (RT+). Mask Request - Reply: 17 : Request Type: 17 or13 Code:0 18: Reply checksum Sequence Number Identifier Address Mask

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