



# CLOUD COMPUTING CONCEPTS

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with Indranil Gupta (Indy)

## GOSSIP

Lecture B

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THE GOSSIP PROTOCOL

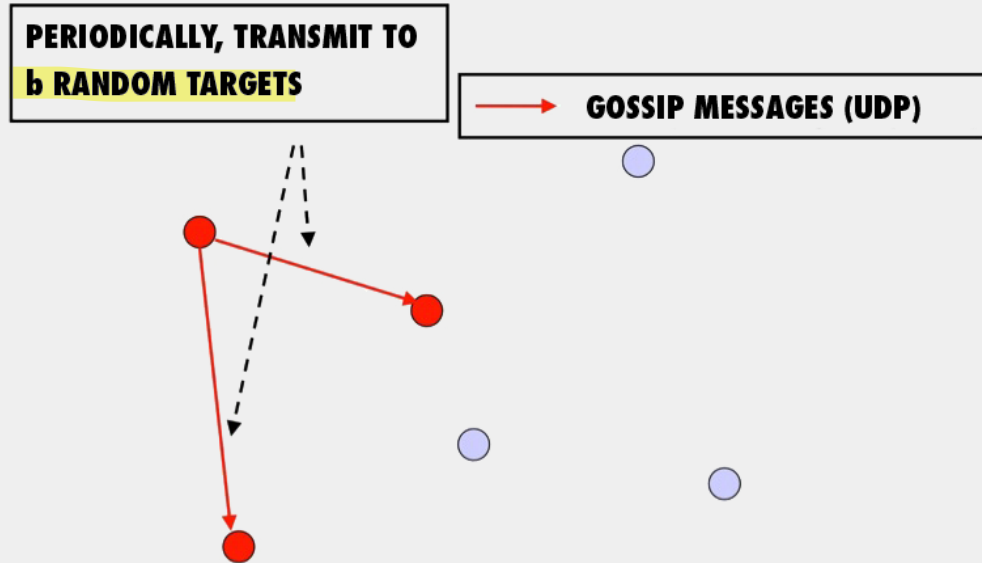
# A THIRD APPROACH



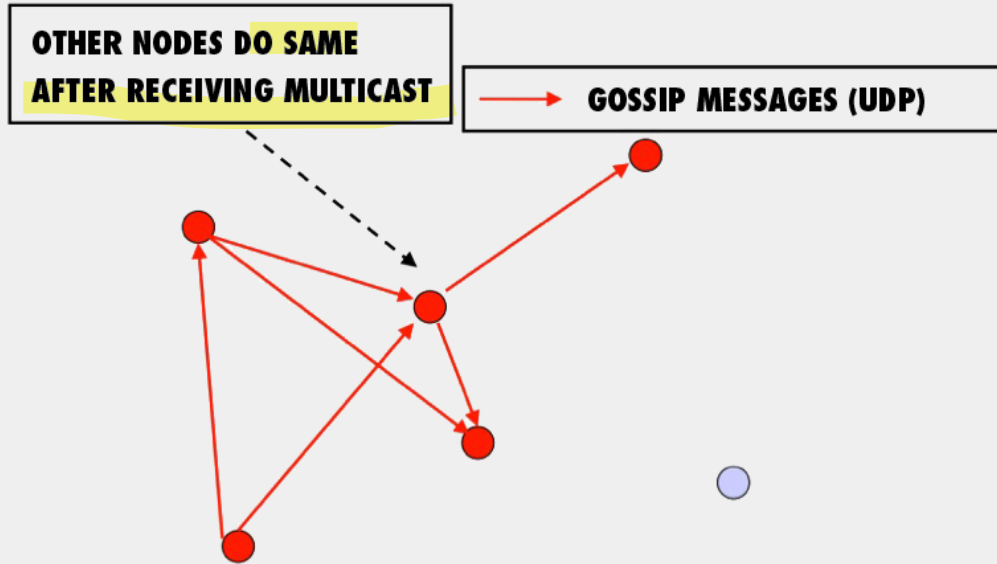
**MULTICAST SENDER**



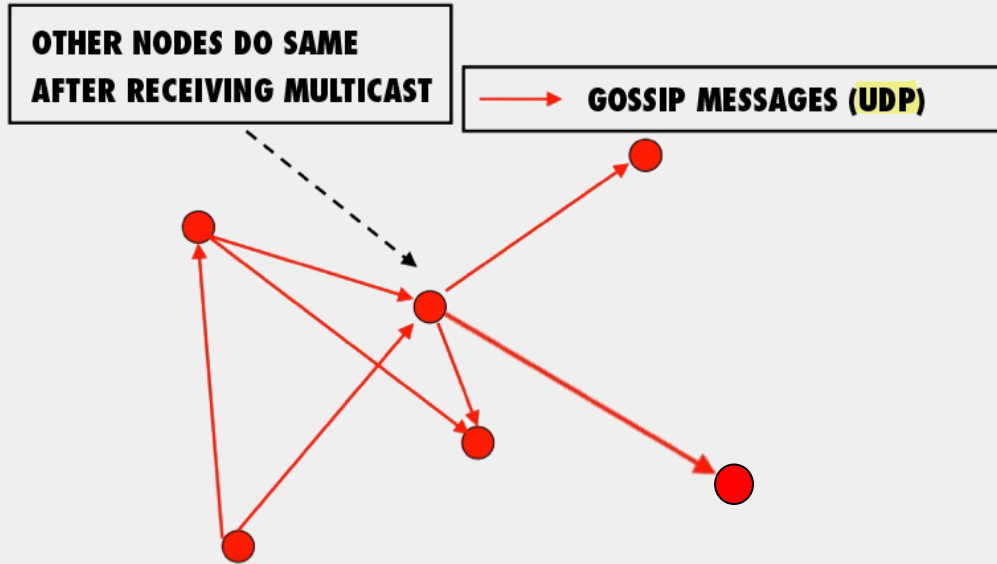
# A THIRD APPROACH



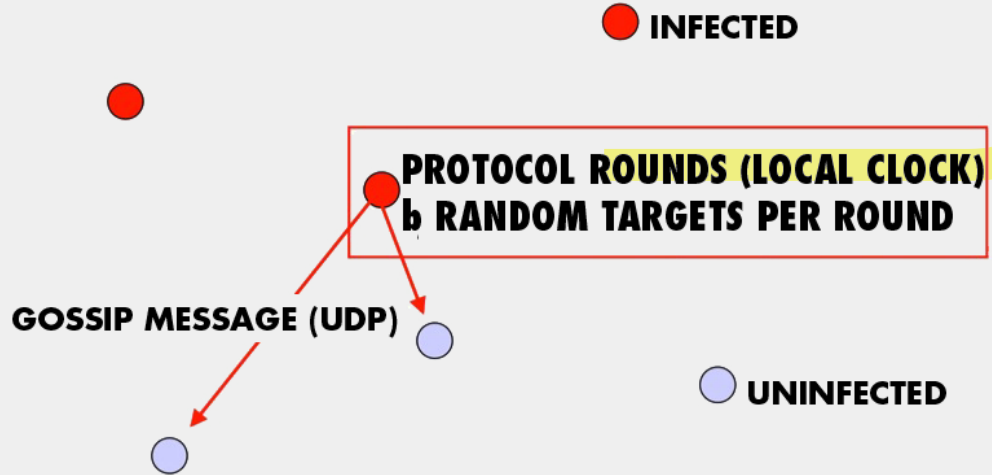
# A THIRD APPROACH



# A THIRD APPROACH



# "EPIDEMIC" MULTICAST (OR "GOSSIP")



# PUSH VS. PULL

- So that was “Push” gossip
  - Once you have a multicast message, you start gossiping about it
  - Multiple messages? Gossip a random subset of them, or recently-received ones, or higher priority ones
- There’s also “Pull” gossip
  - Periodically poll a few randomly selected processes for new multicast messages that you haven’t received
  - Get those messages
- Hybrid variant: Push-Pull
  - As the name suggests