



CLOUD COMPUTING CONCEPTS

with Indranil Gupta (Indy)

GOSSIP

Lecture B

THE GOSSIP PROTOCOL

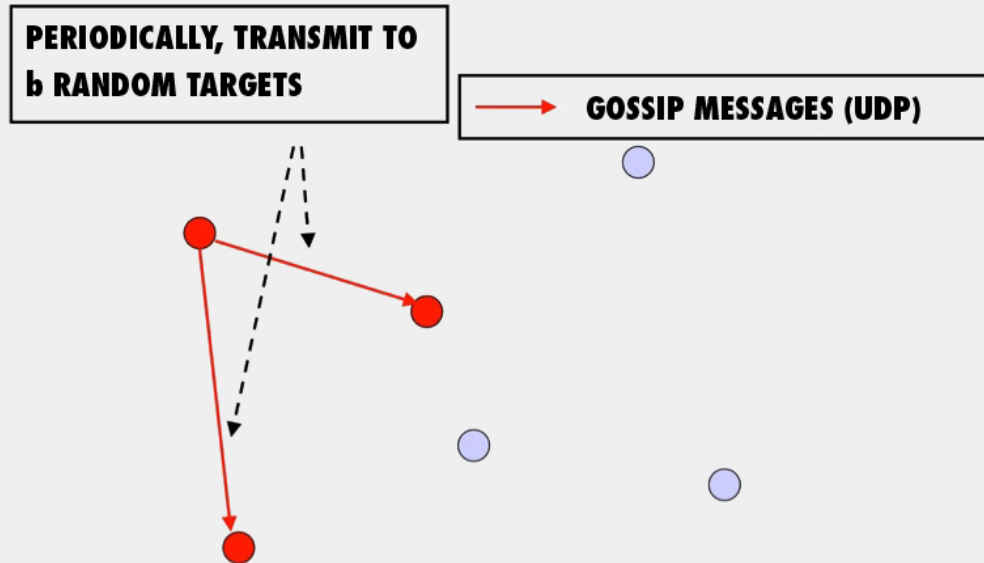
A THIRD APPROACH



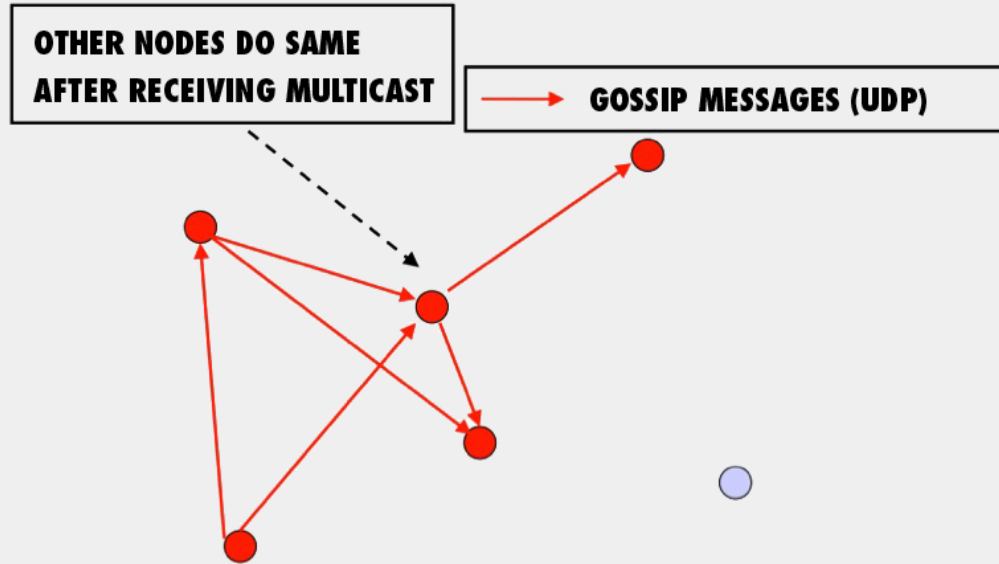
MULTICAST SENDER



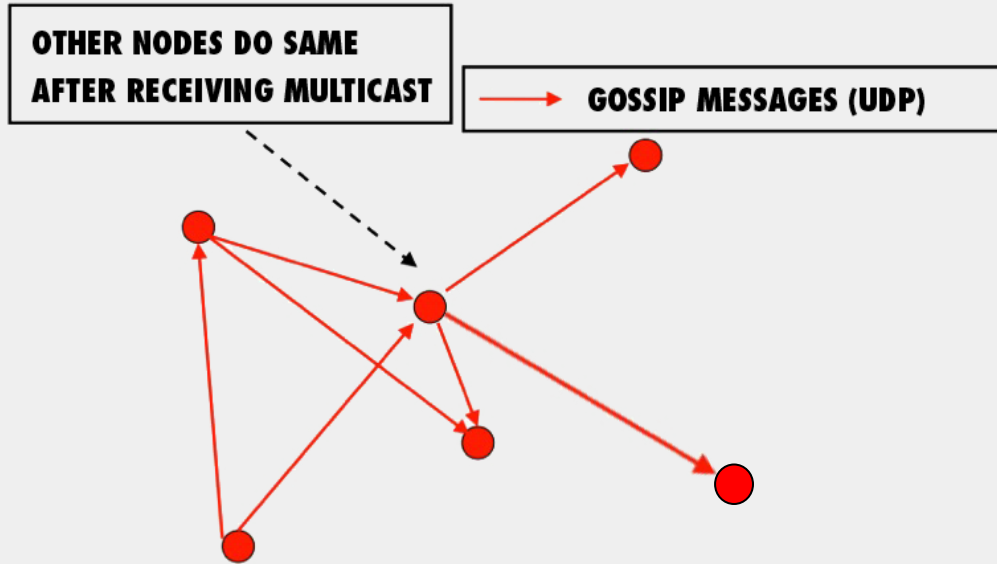
A THIRD APPROACH



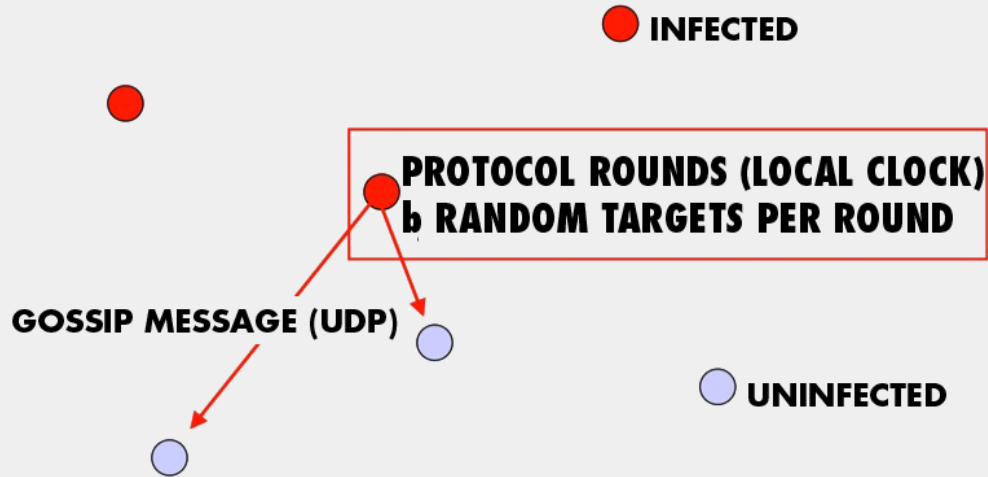
A THIRD APPROACH



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