

























15



- With failures, is it possible that the epidemic might die out quickly?
- Possible, but improbable:
 - Once a few nodes are infected, with high probability, the epidemic will not die out
 - So the analysis we saw in the previous slides is actually behavior with high probability
 - [Galey and Dani 98]
- The same applicable to:
 - Rumors
 - Infectious diseases
 - An Internet worm
- Some implementations
 - Amazon Web Services EC2/S3 (rumored)
 - Usenet NNTP (Network News Transport Protocol)







Summary

- Gossiping
 - One strategy for lazy replication
- High-level of fault-tolerance & quick spreadAnother use case for gossiping

CSE 486/586

19

- Failure detection

Acknowledgements • hese slides contain material developed and copyrighted by Indranil Gupta (UIUC).