Abstract

Most of the challenges in the creation of a publish/subscribe scheme is an effective delivery of message in bounded time and reliability of transmission. Because of the communication in WAN may be affected by the uncertain behavior of the network, in which messages can be lost or delayed. To enforces both reliability and timeliness in a publish/subscribe scheme requires two different approaches: Network Coding and Gossiping. This paper presents the concepts associates with these approaches in the publish/subscribe environment. The objective of this paper is to analyze how these approaches works and what are the impacts after applying it.

References

2. P. Eugster, P. Felber, R. Guerraoui, and A.-M. Kermarrec "The many faces of
3. R. Baldoni, M. Contenti, S. Piergiovanni, and A. Virgillito "Modeling publish/subscribe
communication systems: Towards a formal approach," in Proc. 8th IEEE Int. Workshop
5. C. Esposito, S. Russo, R. Beraldi, and M. Platania "On the benefit of network coding for
timely and reliable event dissemination in WAN," in Proc. 1st Int. Workshop Netw. Resilience,
6. Paolo Costa, Matteo Migliavacca, Gian Pietro Picco, and Gianpaolo Cugola "Introducing
Reliability in Content-Based Publish/Subscribe through Epidemic Algorithms," 2013 Milano,
Italy.
8. C. Esposito, S. Russo, R. Beraldi, M. Platania, and R. Baldoni. "Achieving reliable and
timely event dissemination over wan" in Proc. 13th ICDCN, 2012, pp. 265280.
randomized setting", International Symposium on Information Theory (ISIT), page 442, July
2003.
11. P. Sanders, S. Egner, and L. Tolhuizen." Polynomial time algorithms for network
in Large-Scale Systems," IEEE Transactions on Parallel and Distributed Systems (TPDS), vol.
14, no. 2, pp. 111,February 2003

Index Terms

Computer Science
Databases

Keywords

Network Coding,Gossipping