

Large Scale Distributed Systems

Lab 5

2022/2023

Epidemic multicast

Implement an epidemic multicast protocol using the `broadcast workload` and `--topology total`.

Steps

1. Implement a simple eager multicast protocol. Count and log the number of payloads received.
2. Test with different fanout configurations.
3. Refine implementation to use an eager/lazy time-to-live strategy.
4. Retest and compare number of payloads received.

Learning Outcomes Apply epidemic multicast to information dissemination. Recognize the tradeoffs in protocol configuration.