Streaming lab

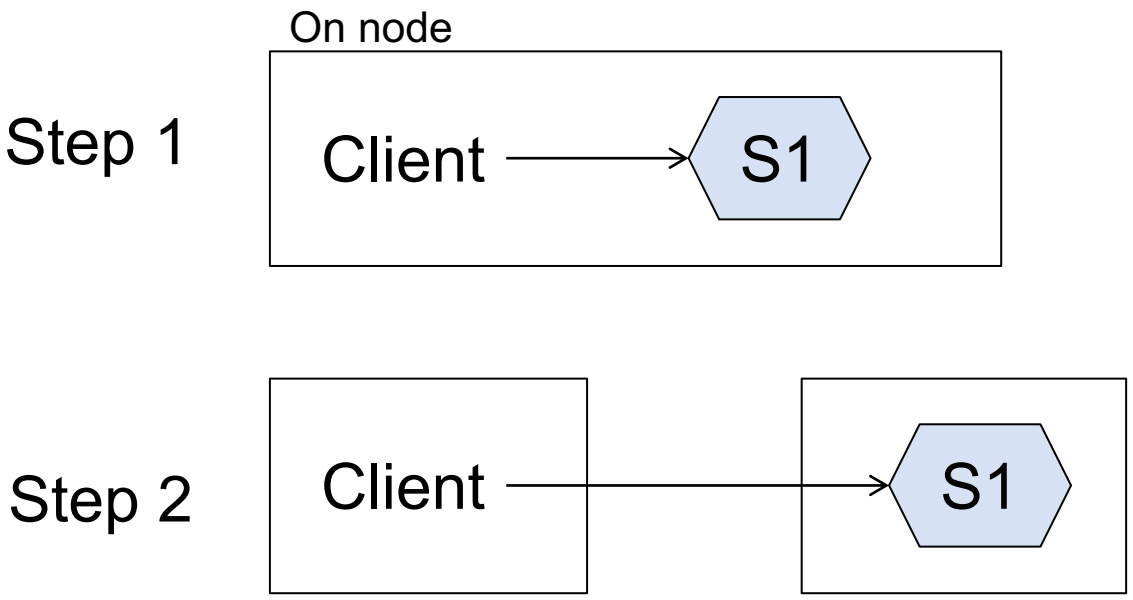
Timing and data distribution

Lab goals

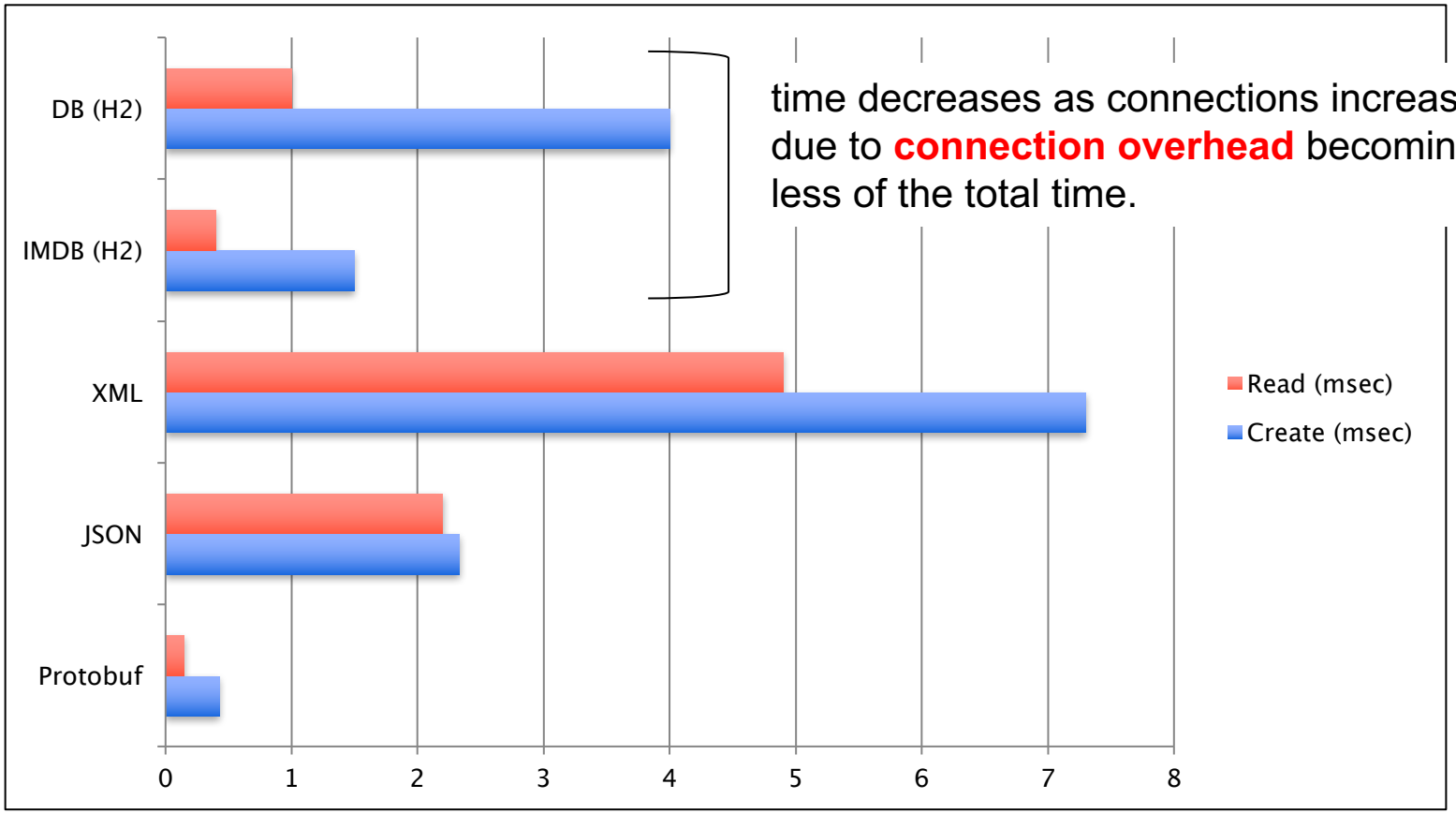
- Setup a multi (minimum 2) host network to stream data.
  - Start with step 1 before progressing to 2
- For each step:
  - Define a measurement of message latency
    - What is the baseline (dt)?
    - How to measure?
  - Latency of moving data
    - Vary payload size. What did you discover?
    - What if you read/write to/from a file?

Latency (dt):

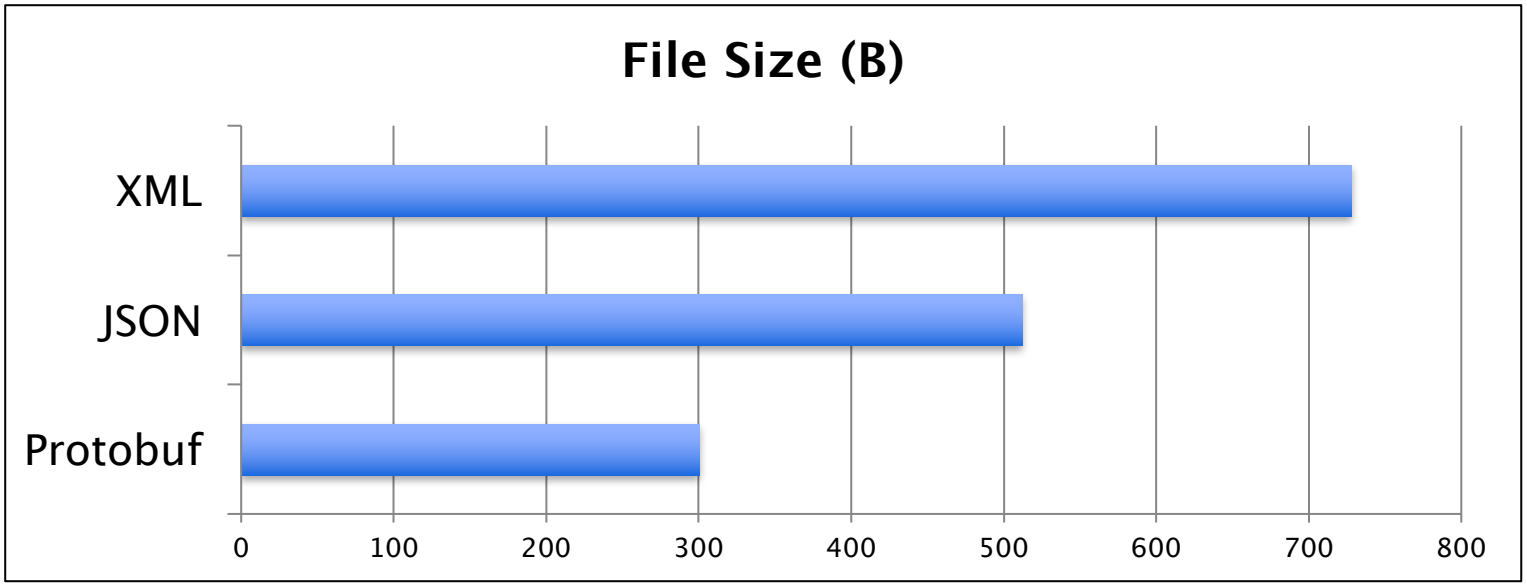
- Time to connect `(first time)`
- Message latency `(object → transmit → object)`



Read and Create timing
(Comparing I/O format choices)

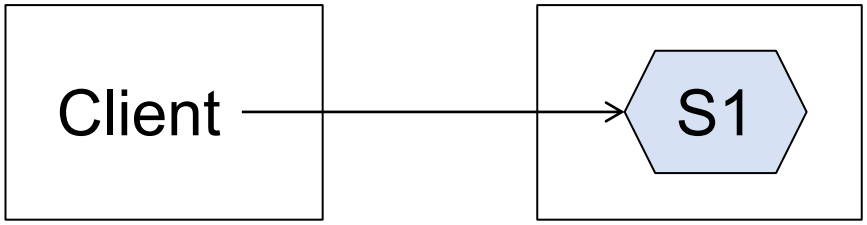


Compact format representation on disk has implications to not only storage but, includes bandwidth



Challenge: write a bash script to send 1000 messages.

for (1000):



Challenge 2: **Augment the client to know the server(s) running and on failure automatically switch to the alternate server.**