Assignment 2

Out: March 1
Due by: March 8
Q1: Scatter-Gather Traffic Pattern

- 2 distinct traffic patterns
- Strong diagonal
- Multiple horizontal and vertical lines
- What about the top-right corner?

**Q2:** ??

- Same topology as Q1
- TCP as transport protocol
- Backend servers add jitter while responding
Q3: Port Mirroring

• What is it? State one use for it.
• **Hint:** You should try to follow the reading list :)

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Q4: Traffic Locality

- Hadoop traffic
  - Most diversity

- Others
  - Minimal rack local traffic
  - More stable

The above statements are not universally true!

Q5: Link Utilization vs. Switching Load

- Median packet size: 250 bytes
- High packet rates
- Example: Cache server
  - Link util. 10%
  - Median packet size: 175 bytes
  - Packet rate: 85% of a fully utilized link sending MTU-sized packets