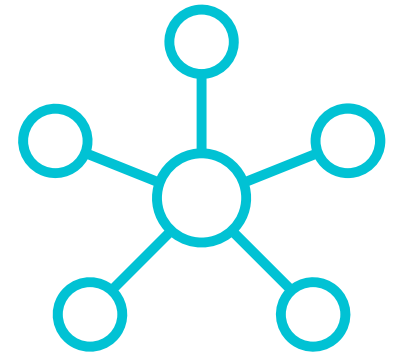# Networking

Bandwidth Management

Network Optimization

- Quality of Service (QoS)
  - Set of technologies responsible for maintaining high-priority applications and traffic under limited network capacity
  - Helps prevent problems as data traverses a network
  - 5 problems that affect data
    - Delays
    - Dropped packets
    - Errors
    - Jitter
    - Out-of-order delivery

Network Optimization

- Traffic Shaping
  - Helps with bandwidth optimization
  - Delays specific packets
    - When they meet a specific criteria
    - Helps open bandwidth for other applications
  - Uses bandwidth throttling and rate limiting