

# Load Balancer - Learning Materials

## Articles & Blogs

- [Introduction to Modern Network Load Balancing](#) - Comprehensive overview by Envoy team
- [Load Balancing Algorithms](#) - Detailed comparison of algorithms
- [The Architecture of Uber's API Gateway](#) - Real-world implementation at scale

## Videos

- [Load Balancers Explained](#) - ByteByteGo's visual guide
- [System Design: Load Balancing](#) - Gaurav Sen's deep dive

## Technical Documentation

- [AWS Elastic Load Balancing](#) - ALB, NLB, and GLB patterns
- [NGINX Load Balancing](#) - Configuration and best practices
- [HAProxy Documentation](#) - High-performance load balancing

## Key Concepts to Explore

- Layer 4 vs Layer 7 load balancing
- Health checks and failover
- Session persistence (sticky sessions)
- Load balancing algorithms (round-robin, least connections, IP hash)
- Global server load balancing (GSLB)
- Service mesh and sidecar patterns