

Network Protocols and Vulnerabilities

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Outline

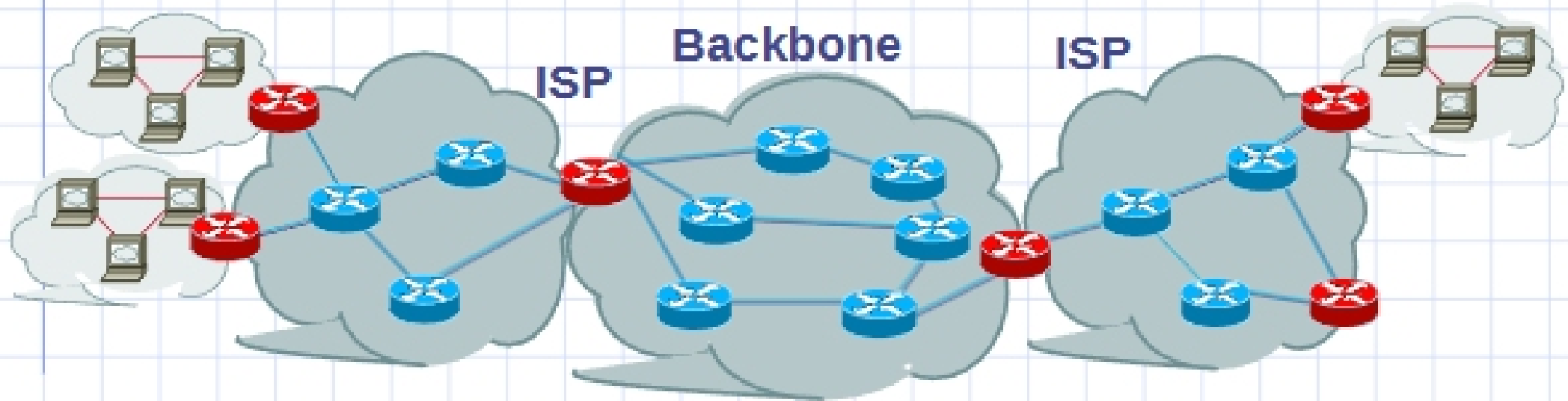
◆ Basic Networking

◆ Network attacks

- **Attacking host-to-host datagram protocols**
 - ◆ SYN flooding, TCP Spoofing, ...
- **Attacking network infrastructure**
 - ◆ Routing
 - ◆ Domain Name System

This lecture is about the way things work now and how they are not perfect. Next lecture - some security improvements (still not perfect)

Internet Infrastructure



◆ Local and interdomain routing

- TCP/IP for routing, connections
- BGP for routing announcements

◆ Domain Name System

- Find IP address from symbolic name (www.cs.stanford.edu)