Panel 1

Last time:

Congestion control (vs. flow control)

Open / Closed loop solutions

Traffic shaping

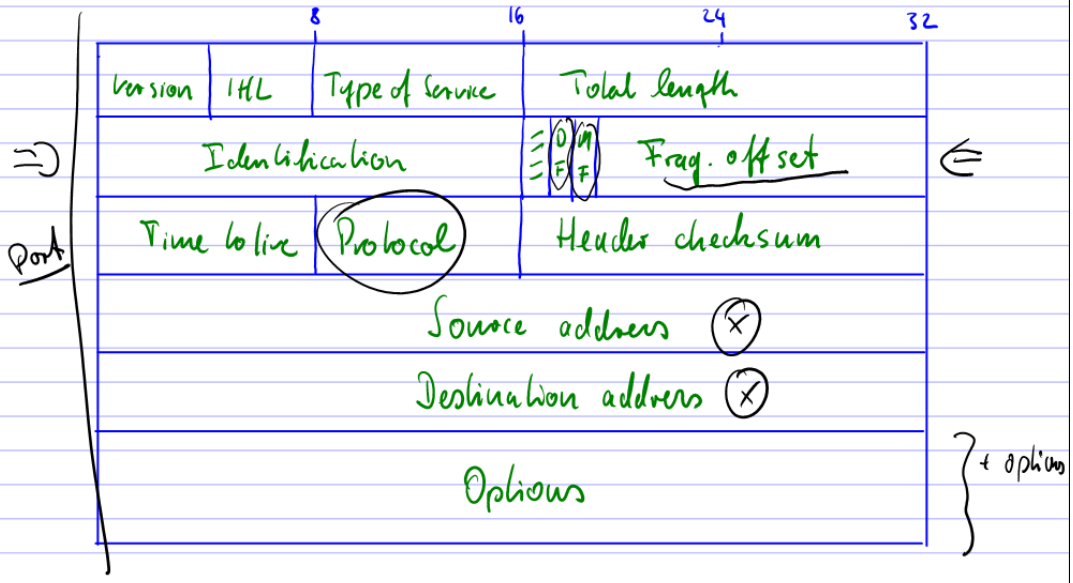
- Leaky Bucket
- Token Bucket

IP header format

1

Panel 2

20 bytes 4 × 5



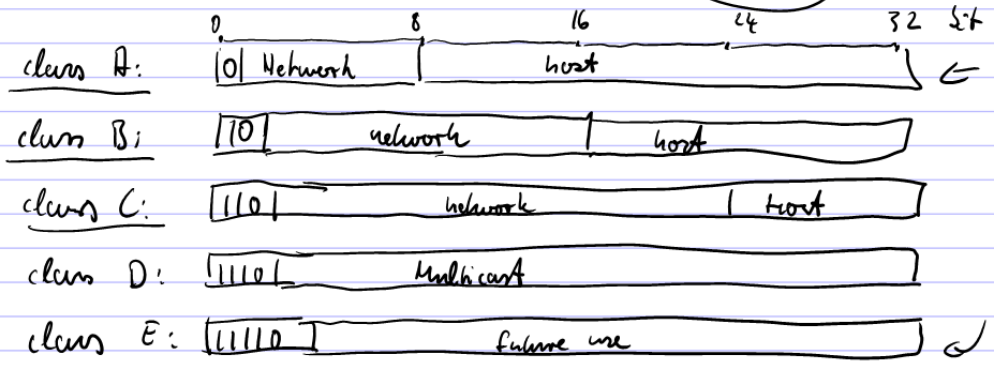
2

Panel 3

IP Addresses

Every host has unique IP address, encodes network + host (machine) ID

⇒ 4 bytes = 32 bits ⇒ $2^{32}-1 \approx$ 4 Billion



3

Panel 4

byte1 byte2 byte3 byte4

class A: 1.0.0.0 → 127.255.255.255

class B: 128.0.0.0 → 191.255.255.255

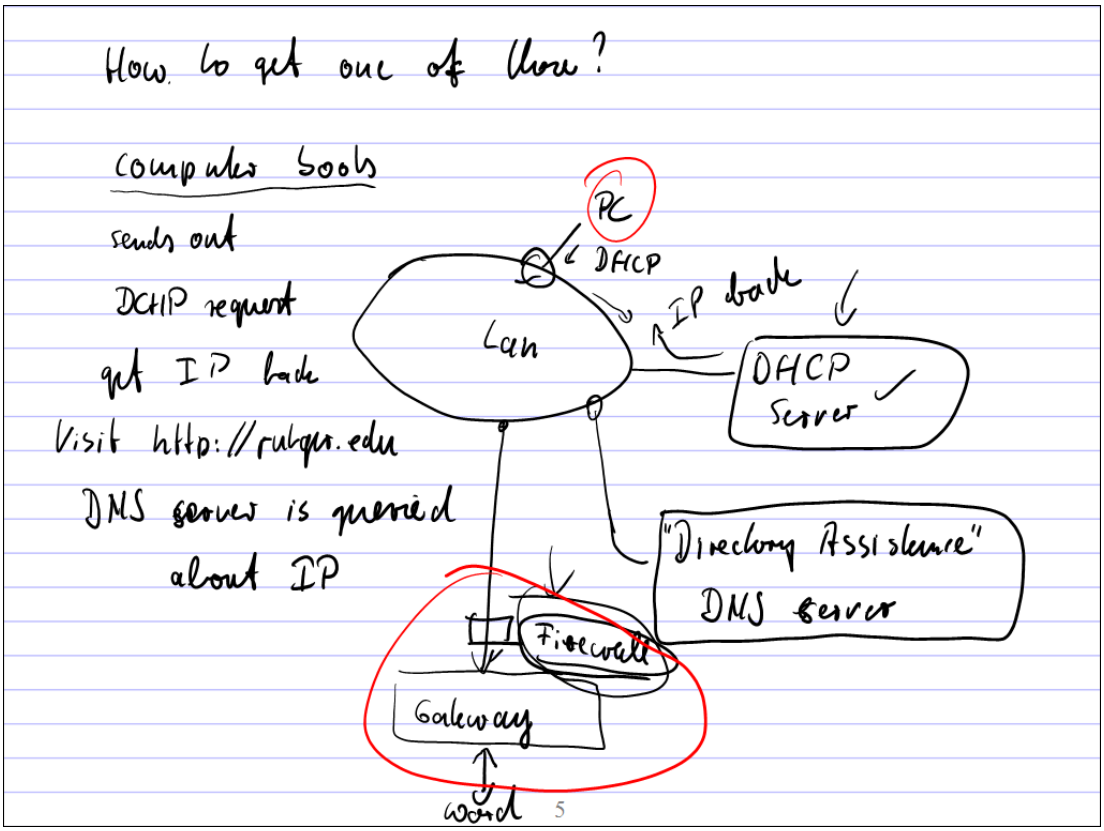
class C: 192.0.0.0 → 223.255.255.255

SHU: 149.150.x.x

Assigned centrally!

4

Panel 5



Panel 6