## 75.43 Introducción a los Sistemas Distribuidos 73.33 Redes y Teleprocesamientos I 95.60 Redes y Aplicaciones Distribuidas

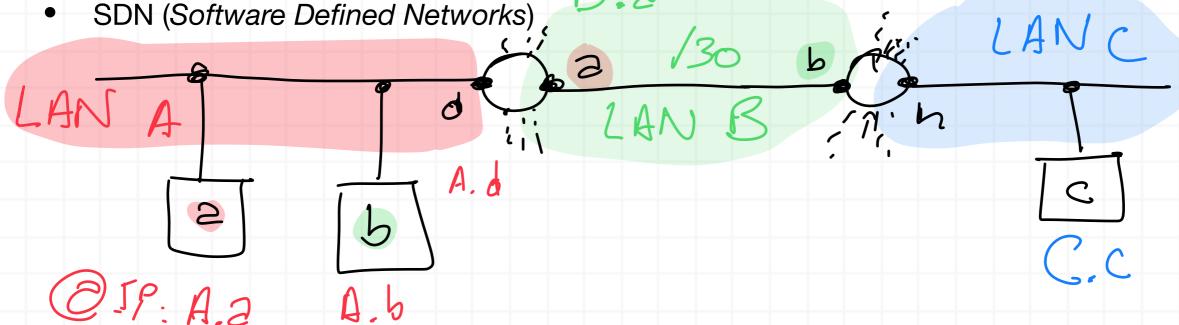
### Tema: Capa de Red (II)

Desde 4.3.3 IPv4 Addressing hasta el final del capítulo de Computer Networking: A Top-Down Approach with Access. James Kurose and Keith Ross. Publisher: Pearson Edition: 7th, 2016.

Dr. Ing. J. Ignacio Alvarez-Hamelin

## Clase de hoy

- Enrutamiento sin clases: Subredes
- DHCP (Dynamic Host Configuration Protocol)
- IPv6 (Internet Protocol, Version 6)



Conf. DIP 10 red msscara anst Mirine Capz toble de rotes (Defolt Geteway) red Nombre - DNS primaio, secondario, ...

- dominto
- hombre del host chet. fi. ube es

- nombre del host chet. fi. ube es

MTU (maximum transfert unit)

DACP

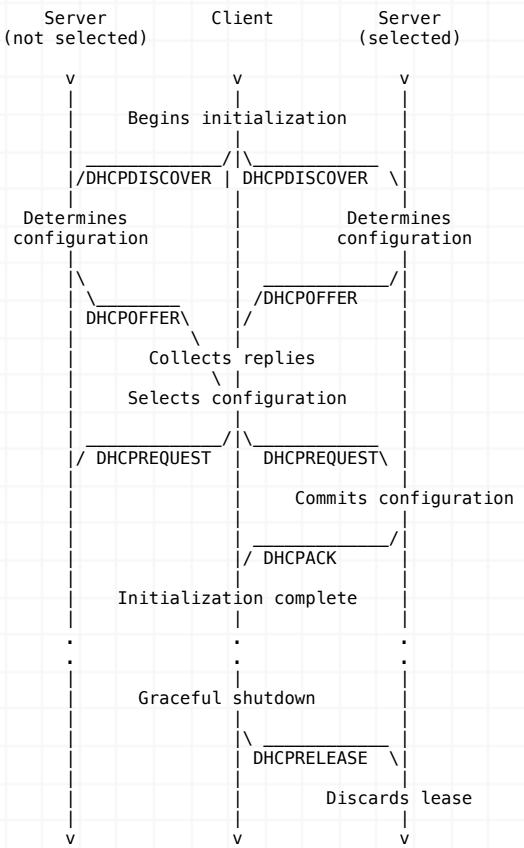
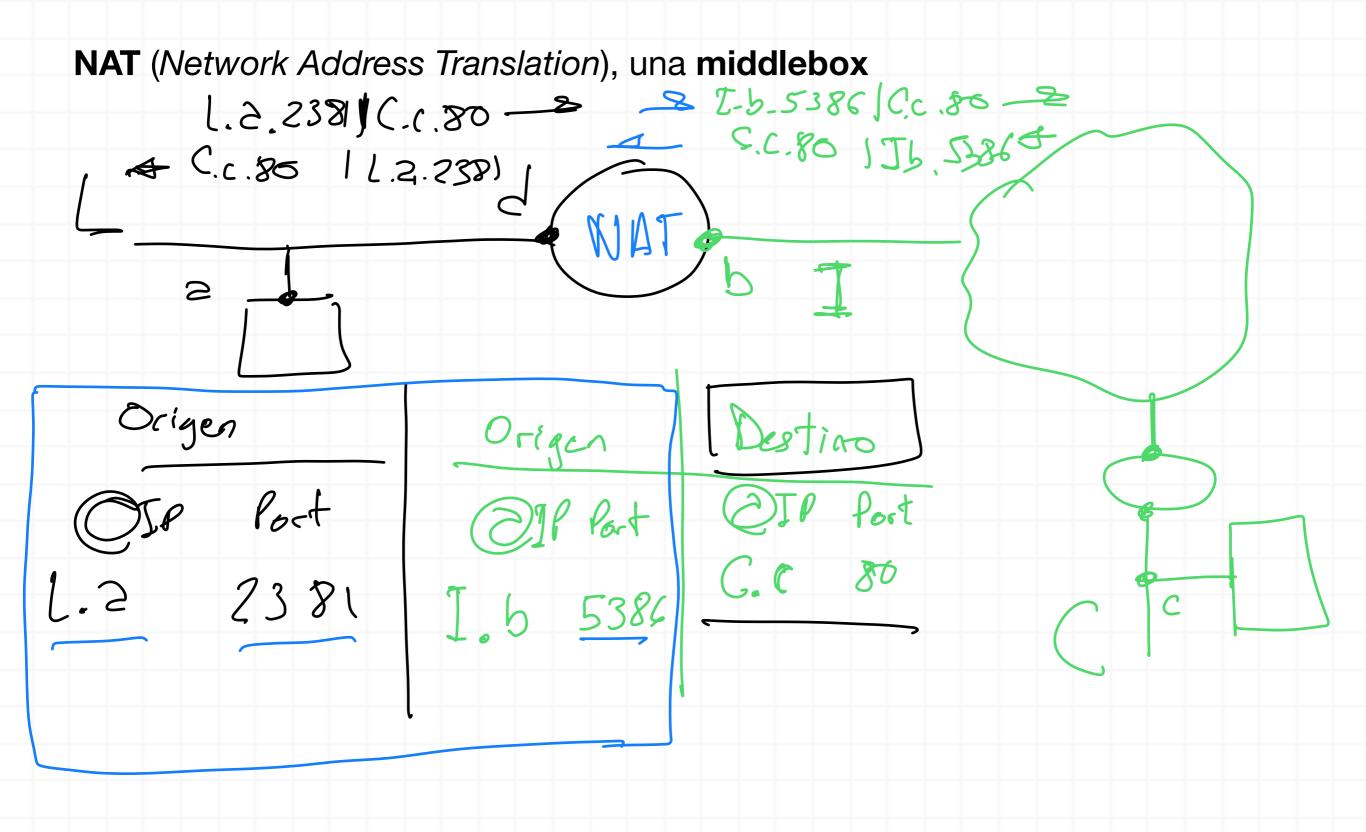


Figure 3: Timeline diagram of messages exchanged between DHCP client and servers when allocating a new network address



# IPv6 (Internet Protocol, Version 6)

imotivación principal!



• Falta de direcciones



Encabezados modulares



Fragmentación prohibido en routers (sólo los extremos pueden hacerlo)



Auto-configuración?



• Tratamiento diferenciado de flujos



Sin checksum



IPv6: Mitos y Realidades

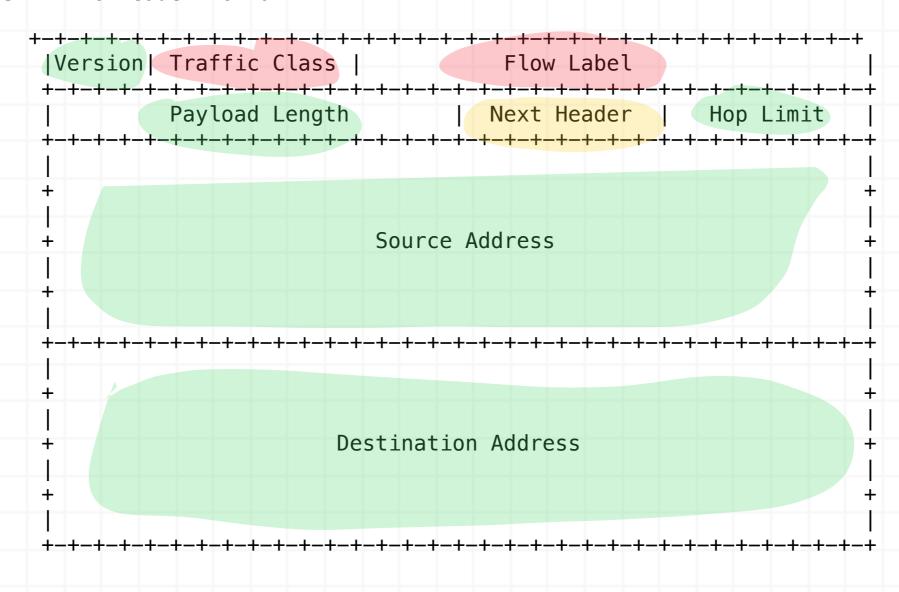
Viernes 26/11/2021 18:00 Argentina (GMT-3)

Fernando Gont



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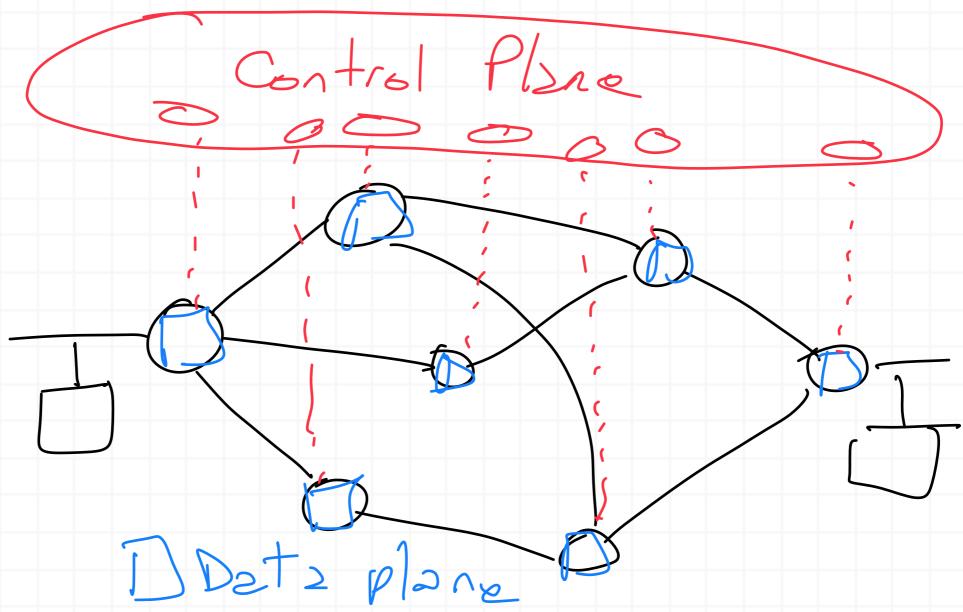
#### 3. IPv6 Header Format



Herthit Hzt...the Payload (data)

Longitud

## SDN (Software Defined Networks)



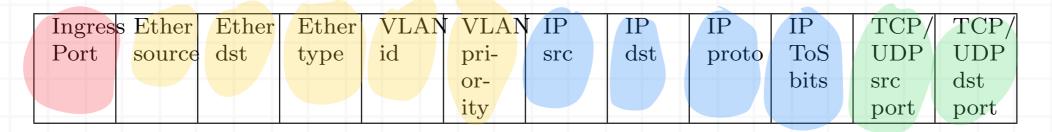
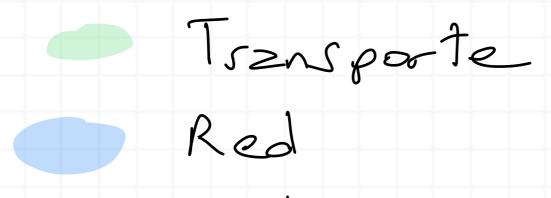


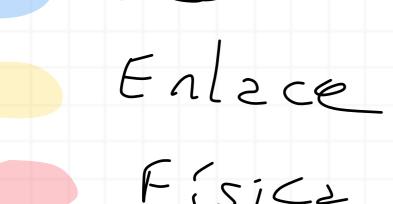
Table 2: Fields from packets used to match against flow entries.

Extraída de: <a href="https://opennetworking.org/wp-content/uploads/2013/04/openflow-spec-v1.0.0.pdf">https://opennetworking.org/wp-content/uploads/2013/04/openflow-spec-v1.0.0.pdf</a>

### **TCAM (Ternary Contente Addressable Memory)**

"Content-Addressable Memory (CAM) Circuits and Architectures: A Tutorial and Survey"





Middle boxes

- ·Wet
- · Firewalls
- · DPJ (IDS)

