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`##*OPTIONS: toc:nil ##*LATEX_HEADER: graphicx`



## Centro Universitario de Ciencias Exactas e Ingenierías

*Departamento de ciencias computacionales*

**Administración de redes**

**Reporte semanal**

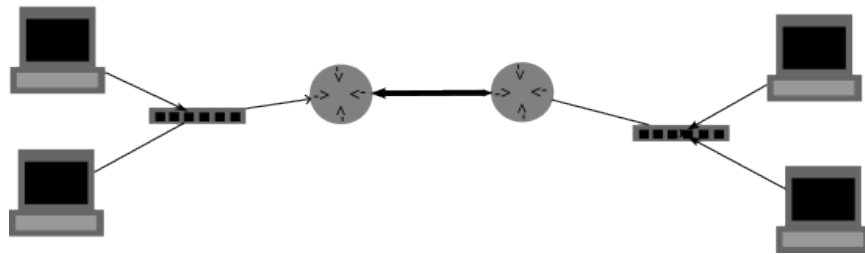
**Semana 6**

Direccionamiento Wi Fi

Prof: Ing. Luis Ignacio Sánchez Salazar  
Alumno: Ángel Gerardo Escobedo Herrero  
Carrera: Ingeniería Informática  
Materia: i5907 (Administración de Redes)  
NRC: 42241  
Sección: D04  
Calendario: 2023A

- Establecer
  - Máscaras
  - Red
  - Broadcast
  - Rango útil
  - Red

Tapalpa: 60 computadoras 172.16.0.0 Tlaquepaque: 180 computadoras



## 1 Tlaquepaque

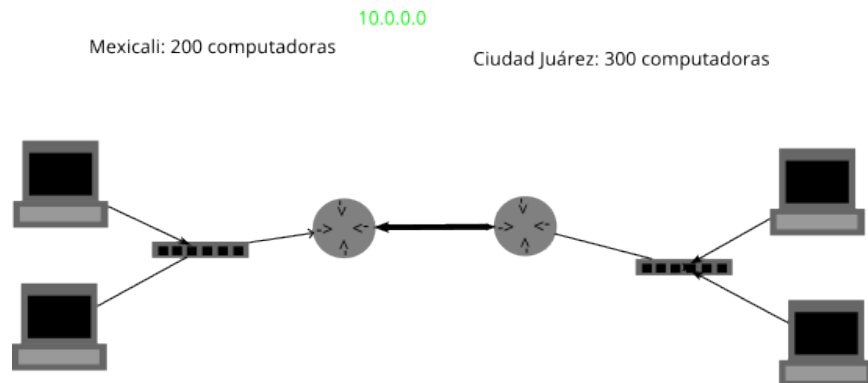
- Network: 172.16.0.0
- Mask: 255.255.255.0
- Broadcast: 172.16.0.255
- Rango útil: 172.16.0.1 -> 172.16.0.254
- Gateway: 172.16.0.254

## 2 Tapalpa

- Network: 172.16.1.0
- Mask: 255.255.255.192
- Broadcast: 172.16.1.63
- Rango útil: 172.16.1.1 -> 172.16.1.62
- Gateway: 172.16.1.62

### 3 Enlace Tapalpa - Tlaquepaque

- Network: 172.16.1.64
- Mask: 255.255.255.252
- Broadcast: 172.16.1.67
- Rango útil: 172.16.1.65 -> 172.16.1.66



### 4 Ciudad Juárez

- Network: 10.0.0.0
- Mask: 255.255.254.0
- Broadcast: 10.0.1.255
- Rango útil: 10.0.1.254 -> 10.0.1.254
- Gateway: 10.0.1.254

### 5 Mexicali

- Network: 10.0.3.0
- Mask: 255.255.255.252
- Broadcast: 10.0.3.3
- Rango útil: 10.0.3.1 -> 10.0.3.2

- Gateway: 10.0.4.254

También se vio cómo utilizar *IP Network Calculator*, una aplicación de la Play Store que estima las variables que utilizamos en clase, es muy intuitiva y muchísimo más fácil de utilizar que realizar los cálculos uno a uno.

The screenshot shows the 'IPv4 Calc' tab of the 'IP Network Calculator' app. The interface is dark-themed. At the top, there are tabs for 'IPv4 Calc', 'IPv6 Calc', and 'Settings'. Below the tabs, the 'IP v4 Address' is set to '192.168.1.75' and the 'CIDR' is '24'. The 'Netmask' is displayed as '255.255.255.0'. A yellow progress bar is visible below the netmask, with a slider control. Below the progress bar, the text 'Mask - Change the CIDR Value' is shown. The app displays results in four sections: 'Dotted-Decimal Notation', 'Hexadecimal Notation', 'Binary Notation', and 'Octal Notation'. Each section lists 'Network', 'Broadcast', 'Netmask', 'First Address', 'Last Address', and '# Usable IPs'.

Dotted-Decimal Notation	
Network:	192.168.1.0
Broadcast:	192.168.1.255
Netmask:	255.255.255.0
First Address:	192.168.1.1
Last Address:	192.168.1.254
# Usable IPs:	254

Hexadecimal Notation	
Network:	C0 A8 01 00
Broadcast:	C0 A8 01 FF
Netmask:	FF FF FF 00
First Address:	C0 A8 01 01
Last Address:	C0 A8 01 FE
# Usable IPs:	FE

Binary Notation	
Network:	11000000 10101000 00000001 00000000
Broadcast:	11000000 10101000 00000001 11111111
Netmask:	11111111 11111111 11111111 00000000
First Address:	11000000 10101000 00000001 00000001
Last Address:	11000000 10101000 00000001 11111110
# Usable IPs:	11111110

Octal Notation	
Network:	300:250:1:0
Broadcast:	300:250:1:377
Netmask:	377:377:377:0