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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**

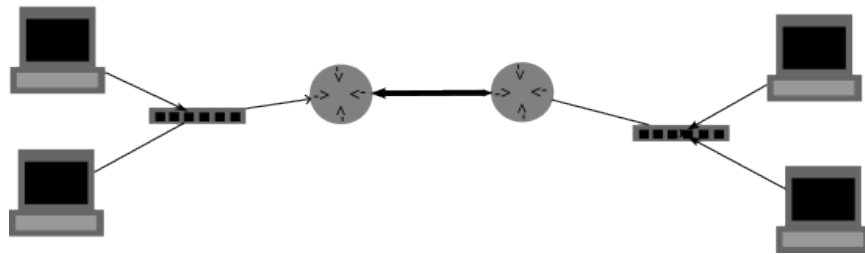
**Semana 6**

Direccionamiento Wi Fi

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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

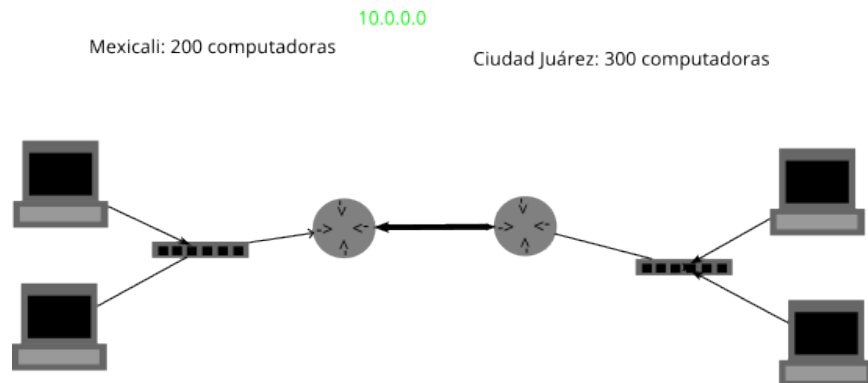
- Network: 172.16.0.0
- Mask: 255.255.255.0
- Broadcast: 172.16.0.255
- Rango útil: 172.16.0.1 -> 172.16.0.254
- Gateway: 172.16.0.254

## 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'.

Notation	Network	Broadcast	Netmask	First Address	Last Address	# Usable IPs
Dotted-Decimal Notation	192.168.1.0	192.168.1.255	255.255.255.0	192.168.1.1	192.168.1.254	254
Hexadecimal Notation	C0 A8 01 00	C0 A8 01 FF	FF FF FF 00	C0 A8 01 01	C0 A8 01 FE	FE
Binary Notation	11000000 10101000 00000001 00000000	11000000 10101000 00000001 11111111	11111111 11111111 11111111 00000000	11000000 10101000 00000001 00000001	11000000 10101000 00000001 11111110	11111110
Octal Notation	300:250:1:0	300:250:1:377	377:377:377:0			