



***Instituto Tecnológico de Estudios Superiores de  
Monterrey***

Interconexión de Dispositivos

Actividad Reto 05: La configuración de los equipos de interconexión de red

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En esta entrega del reto, se nos solicita presentar nuevamente el diseño lógico de la red, y nuestras tablas de configuración de los equipos de interconexión.

Además de pruebas de conexión de nuestro diseño en Packet Tracer, para comprobar la funcionalidad de nuestras configuraciones. Mismas que deben ser adjuntadas también. Para la presentación de las configuraciones, decidimos hacer un solo archivo de configuración donde seguimos el siguiente orden:

1. Router Frontera
2. Switch Principal
3. Switch Prensa
4. Switch Jueces
5. Switch Coaches
6. Switch Principal Primaria
  - a. Switch Secundario Primaria 1
  - b. Switch Secundario Primaria 2
  - c. Switch Secundario Primaria 11
7. Switch Principal Secundaria
  - a. Switch Secundario Secundaria 1
  - b. Switch Secundario Secundaria 2
  - c. Switch Secundario Secundaria 9
8. Switch Principal Preparatoria
  - a. Switch Secundario Preparatoria 1
  - b. Switch Secundario Preparatoria 2
  - c. Switch Secundario Preparatoria 6

Adjuntamos el link para visualizar las imágenes siguientes de mejor manera:

<https://docs.google.com/spreadsheets/d/1QcYrvIYJNGVpBKMomolkiCHvXfAxIkU/edit?usp=sharing&ouid=114276494331239888561&rtpof=true&sd=true>

**Dirección IP seleccionada:**

**172.16.24.0/21**

**Diseño lógico de la red (diseño VLSM) /30**

**192.168.255.242**

Segmento	Bloque asignado de direcciones IP	Primera dirección IP válida del bloque	Última dirección IP válida del bloque	Máscara en notación punto decimal	Num. Hosts requeridos	bits de host	Desplazamiento	Prefijo de red	Orden	
Concursantes (Prepa.)	172.16.26.0	172.16.26.1	172.16.26.254	255.255.255.0	256-255=1	132	8	1	24	2
Concursantes (Sec.)	172.16.27.0	172.16.27.1	172.16.27.254	255.255.255.0	256-255=1	200	8	1	24	3
Concursantes (Prim.)	172.16.24.0	172.16.24.1	172.16.25.254	255.255.254.0	256-252=4	264	9	2	23	1
Coaches	172.16.28.0	172.16.28.1	172.16.28.62	255.255.255.192	256-192=8	64	6	64	26	6
Prensa	172.16.28.64	172.16.28.65	172.16.28.126	255.255.255.192	256-192=8	64	6	64	26	7
Jueces	172.16.28.128	172.16.28.129	172.16.28.190	255.255.255.192	256-192=64	34	6	64	26	4
Gestion	172.16.28.192	172.16.28.193	172.16.28.254	255.255.255.192	256-192=64	34	6	64	26	5
Servers	172.16.29.0	172.16.29.1	172.16.29.6	255.255.255.248	256-8=248	1	3	8	29	8

<b>DISPOSITIVO</b>	<b>INTERFACE</b>	<b>IP ADDRESS</b>	<b>SUBNETMASK</b>	<b>D. GATEWAY</b>	<b>DNS</b>
<b>Router_Frontera</b>	g0/0/0	192,168,255,242	255,255,255,252	NA	NA
Primaria	g0/0/0,100	172,16,25,254	255,255,254,0	NA	NA
Preparatoria	g0/0/0,200	172,16,26,254	255,255,255,0	NA	NA
Secundaria	g0/0/0,300	172,16,27,254	255,255,255,0	NA	NA
Jueces	g0/0/0,400	172,16,28,190	255,255,255,192	NA	NA
Coaches	g0/0/0,500	172,16,28,62	255,255,255,192	NA	NA
Prensa	g0/0/0,600	178,16,28,126	255,255,255,192	NA	NA
Servers	g0/0/0,700	172,16,29,6	255,255,255,248	NA	NA
Gestion	g0/0/0,911	172,16,28,254	255,255,255,192	NA	NA
<b>Switch_Principal</b>	VLAN 911	172,16,28,193	255,255,255,192	172,16,28,254	NA
<b>Swtch_Prensa</b>	VLAN 911	172,16,28,194	255,255,255,192	172,16,28,254	NA
<b>S_Coaches</b>	VLAN 911	172,16,28,195	255,255,255,192	172,16,28,254	NA
<b>Swrich_Jueces</b>	VLAN 911	172,16,28,196	255,255,255,192	172,16,28,254	NA
<b>Switch_Concursantes</b>	VLAN 911	172,16,28,197	255,255,255,192	172,16,28,254	NA
<b>switch_Concursantes</b>	VLAN 911	172,16,28,198	255,255,255,192	172,16,28,254	NA
S_C_Prim 1	VLAN 911	172,16,28,199	255,255,255,192	172,16,28,198	NA
S_C_Prim 2	VLAN 911	172,16,28,200	255,255,255,192	172,16,28,198	NA
S_C_Prim 3	VLAN 911	172,16,28,201	255,255,255,192	172,16,28,198	NA
S_C_Prim 4	VLAN 911	172,16,28,202	255,255,255,192	172,16,28,198	NA
S_C_Prim 5	VLAN 911	172,16,28,203	255,255,255,192	172,16,28,198	NA
S_C_Prim 6	VLAN 911	172,16,28,204	255,255,255,192	172,16,28,198	NA
S_C_Prim 7	VLAN 911	172,16,28,205	255,255,255,192	172,16,28,198	NA
S_C_Prim 8	VLAN 911	172,16,28,206	255,255,255,192	172,16,28,198	NA
S_C_Prim 9	VLAN 911	172,16,28,207	255,255,255,192	172,16,28,198	NA
S_C_Prim 10	VLAN 911	172,16,28,208	255,255,255,192	172,16,28,198	NA
S_C_Prim 11	VLAN 911	172,16,28,209	255,255,255,192	172,16,28,198	NA
<b>switch_Concursantes</b>	VLAN 911	172,16,28,212	255,255,255,192	172,16,28,254	NA
S_C_Sec 1	VLAN 911	172,16,28,213	255,255,255,192	172,16,28,212	NA
S_C_Sec 2	VLAN 911	172,16,28,214	255,255,255,192	172,16,28,212	NA
S_C_Sec 3	VLAN 911	172,16,28,215	255,255,255,192	172,16,28,212	NA
S_C_Sec 4	VLAN 911	172,16,28,216	255,255,255,192	172,16,28,212	NA
S_C_Sec 5	VLAN 911	172,16,28,217	255,255,255,192	172,16,28,212	NA
S_C_Sec 6	VLAN 911	172,16,28,218	255,255,255,192	172,16,28,212	NA
S_C_Sec 7	VLAN 911	172,16,28,219	255,255,255,192	172,16,28,212	NA
S_C_Sec 8	VLAN 911	172,16,28,220	255,255,255,192	172,16,28,212	NA
S_C_Sec 9	VLAN 911	172,16,28,221	255,255,255,192	172,16,28,212	NA
<b>switch_Concursantes</b>	VLAN 911	172,16,28,223	255,255,255,192	172,16,28,254	NA
S_C_Prep 1	VLAN 911	172,16,28,224	255,255,255,192	172,16,28,223	NA
S_C_Prep 2	VLAN 911	172,16,28,225	255,255,255,192	172,16,28,223	NA
S_C_Prep 3	VLAN 911	172,16,28,226	255,255,255,192	172,16,28,223	NA
S_C_Prep 4	VLAN 911	172,16,28,227	255,255,255,192	172,16,28,223	NA
S_C_Prep 5	VLAN 911	172,16,28,228	255,255,255,192	172,16,28,223	NA
S_C_Prep 6	VLAN 911	172,16,28,229	255,255,255,192	172,16,28,223	NA
<b>Servers</b>	VLAN 911	172,16,28,230	255,255,255,192	172,16,28,254	NA
<b>JUECES</b>	<b>VLAN 400</b>				
Impresora_Jueces_1	NIC	172,16,28,180	255,255,255,192	DHCP	10.25.1.48
I_J_2	NIC	172,16,28,181	255,255,255,192	DHCP	10.25.1.48
I_J_3	NIC	172,16,28,182	255,255,255,192	DHCP	10.25.1.48
I_J_4	NIC	172,16,28,183	255,255,255,192	DHCP	10.25.1.48
PCI1	DHCP	DHCP	DHCP	DHCP	DHCP
PC2	DHCP	DHCP	DHCP	DHCP	DHCP
PC3	DHCP	DHCP	DHCP	DHCP	DHCP
PC4	DHCP	DHCP	DHCP	DHCP	DHCP
PC5	DHCP	DHCP	DHCP	DHCP	DHCP
PC6	DHCP	DHCP	DHCP	DHCP	DHCP
PC7	DHCP	DHCP	DHCP	DHCP	DHCP
PC8	DHCP	DHCP	DHCP	DHCP	DHCP
PC9	DHCP	DHCP	DHCP	DHCP	DHCP
PC10	DHCP	DHCP	DHCP	DHCP	DHCP
<b>COACHES</b>	<b>VLAN 500</b>				
iPhone 1	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 2	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 3	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 4	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 5	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 6-32	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 1	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 2	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 3	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 4	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 5	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 6-32	Wireless	DHCP	DHCP	DHCP	DHCP
<b>PRENSA</b>	<b>VLAN 600</b>				
iPhone 1	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 2	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 3	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 4	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 5	Wireless	DHCP	DHCP	DHCP	DHCP
iPhone 6-32	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 1	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 2	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 3	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 4	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 5	Wireless	DHCP	DHCP	DHCP	DHCP
MacBook 6-32	Wireless	DHCP	DHCP	DHCP	DHCP
<b>PARTICIPANTES</b>	<b>Primario VLAN 100</b>	<b>Secundario VLAN 300</b>	<b>Preparatoria VLAN 200</b>		
SPrimaria Principal					
Equipo terminales	CABLE	DHCP	DHCP	DHCP	DHCP
SSECPrincipal					
Equipo terminales	CABLE	DHCP	DHCP	DHCP	DHCP
SPreparatoria Principal					
Equipo terminales	CABLE	DHCP	DHCP	DHCP	DHCP
<b>SERVIDOR</b>	f0/7	172,16,29,1	255,255,255,248	172,16,28,254	10.25.1.48

## Pruebas de conectividad:

### PC0 PRIMARIA A PC1 PRIMARIA

A screenshot of the Cisco Packet Tracer interface. The title bar says "PC0". Below it is a menu bar with "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is selected. A window titled "Command Prompt" is open, showing the output of a ping command. The text in the window reads:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 172.16.24.17

Pinging 172.16.24.17 with 32 bytes of data:
Reply from 172.16.24.17: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.17:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

The desktop background shows a green field with a small white building. A watermark in the center of the screen says "Activar Windows" and "Ve a Configuración para activar Windows." The taskbar at the bottom shows icons for Task View, Start, File Explorer, and a network icon. The system tray shows the date and time as 14/06/2023 10:59 p.m.

### PC0 PRIMARIA A PC3 PRIMARIA

A screenshot of the Cisco Packet Tracer interface. The title bar says "PC0". Below it is a menu bar with "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is selected. A window titled "Command Prompt" is open, showing the output of a ping command. The text in the window reads:

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Reply from 172.16.24.17: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.17:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 172.16.24.15

Pinging 172.16.24.15 with 32 bytes of data:
Reply from 172.16.24.15: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.15:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

The desktop background shows a green field with a small white building. A watermark in the center of the screen says "Activar Windows" and "Ve a Configuración para activar Windows." The taskbar at the bottom shows icons for Task View, Start, File Explorer, and a network icon. The system tray shows the date and time as 14/06/2023 11:00 p.m.

### PC0 PRIMARIA A PC10 SECUNDARIA

```

Reply from 172.16.24.17: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.17:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 172.16.24.15

Pinging 172.16.24.15 with 32 bytes of data:
Reply from 172.16.24.15: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.15:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 172.16.24.9

Pinging 172.16.24.9 with 32 bytes of data:
Reply from 172.16.24.9: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>

```

## PC0 PRIMARIA A PC13 SECUNDARIA

```

Reply from 172.16.24.15: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.15:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 172.16.24.9

Pinging 172.16.24.9 with 32 bytes of data:
Reply from 172.16.24.9: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>ping 172.16.24.6

Pinging 172.16.24.6 with 32 bytes of data:
Reply from 172.16.24.6: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 17ms, Average = 4ms

C:\>

```

## PC0 PRIMARIA A PC16 SECUNDARIA

```

Reply from 172.16.24.9: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 21ms, Average = 5ms

C:\>ping 172.16.24.6

Pinging 172.16.24.6 with 32 bytes of data:
Reply from 172.16.24.6: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 17ms, Average = 4ms

C:\>ping 172.16.26.9

Pinging 172.16.26.9 with 32 bytes of data:
Request timed out.
Reply from 172.16.26.9: bytes=32 time=18ms TTL=127
Reply from 172.16.26.9: bytes=32 time<1ms TTL=127
Reply from 172.16.26.9: bytes=32 time<1ms TTL=127

Ping statistics for 172.16.26.9:
    Packets: Sent = 3, Received = 3, Lost = 1 (33.3% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 18ms, Average = 6ms

C:\>

```

## PC0 PRIMARIA A PC PREPARATORIA

PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
Reply from 172.16.24.6: bytes=32 time=17ms TTL=128
Reply from 172.16.24.6: bytes=32 time=1ms TTL=128
Reply from 172.16.24.6: bytes=32 time=1ms TTL=128

Ping statistics for 172.16.24.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 17ms, Average = 4ms

C:\>ping 172.16.26.9

Pinging 172.16.26.9 with 32 bytes of data:

Request timed out.
Reply from 172.16.26.9: bytes=32 time=18ms TTL=127
Reply from 172.16.26.9: bytes=32 time=1ms TTL=127
Reply from 172.16.26.9: bytes=32 time=1ms TTL=127

Ping statistics for 172.16.26.9:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 18ms, Average = 6ms

C:\>
C:\>ping 172.16.26.6

Pinging 172.16.26.6 with 32 bytes of data:

Request timed out.
Reply from 172.16.26.6: bytes=32 time=1ms TTL=127
Reply from 172.16.26.6: bytes=32 time=1ms TTL=127
Reply from 172.16.26.6: bytes=32 time=1ms TTL=127

Ping statistics for 172.16.26.6:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

Activar Windows
Ve la Configuración para activar Windows.

C:\>
```

□ Top

11:03 p.m. 14/06/2023

## PC14 SECUNDARIA A PC9 PRIMARIA

PC14

Physical Config Desktop Programming Attributes

Command Prompt

```
Disco Packet Tracer PC Command Line 0.0

C:\>ping 172.16.24.10

Pinging 172.16.24.10 with 32 bytes of data:

Reply from 172.16.24.10: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Activar Windows
Ve la Configuración para activar Windows.

□ Top

11:04 p.m. 14/06/2023

## PC14 SECUNDARIA A PC27 PREPA

PC14

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 172.16.24.10

Pinging 172.16.24.10 with 32 bytes of data:

Reply from 172.16.24.10: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.24.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 172.16.26.10

Pinging 172.16.26.10 with 32 bytes of data:

Ping statistics for 172.16.26.10:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
    Control-C
C:\>ping 172.16.26.1

Pinging 172.16.26.1 with 32 bytes of data:

Request timed out.
Reply from 172.16.26.1: bytes=32 time<1ms TTL=127
Reply from 172.16.26.1: bytes=32 time<1ms TTL=127
Reply from 172.16.26.1: bytes=32 time<1ms TTL=127

Ping statistics for 172.16.26.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

Activar Windows
Ve la Configuración para activar Windows.

C:\>
```

□ Top

11:05 p.m. 14/06/2023

## PC22 PREPARATORIA A PC04 PRIMARIA

```
C:\>ping 172.16.24.14

Pinging 172.16.24.14 with 32 bytes of data:
Request timed out.
Reply from 172.16.24.14: bytes=32 time<1ms TTL=127
Reply from 172.16.24.14: bytes=32 time<1ms TTL=127
Reply from 172.16.24.14: bytes=32 time<1ms TTL=127

Ping statistics for 172.16.24.14:
    Packets: Sent = 3, Received = 3, Lost = 1 (33% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Activar Windows  
Ve a Configuración para activar Windows.

## PC5 PRIMARIA A LAPTOP JUECES

```
C:\>ping 172.16.28.137

Pinging 172.16.28.137 with 32 bytes of data:
Request timed out.
Reply from 172.16.28.137: bytes=32 time<1ms TTL=127
Reply from 172.16.28.137: bytes=32 time<1ms TTL=127
Reply from 172.16.28.137: bytes=32 time<1ms TTL=127

Ping statistics for 172.16.28.137:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Activar Windows  
Ve a Configuración para activar Windows.

## PC14 SECUNDARIA A TABLET COACHES

```
C:\>ping 172.16.26.10

Pinging 172.16.26.10 with 32 bytes of data:
Request timed out.
Reply from 172.16.26.10: bytes=32 time<1ms TTL=127
Reply from 172.16.26.10: bytes=32 time<1ms TTL=127
Reply from 172.16.26.10: bytes=32 time<1ms TTL=127

Ping statistics for 172.16.26.10:
    Packets: Sent = 1, Received = 0, Lost = 1 (100% loss),
Control-C
C:\>ping 172.16.26.1

Pinging 172.16.26.1 with 32 bytes of data:
Request timed out.
Reply from 172.16.26.1: bytes=32 time<1ms TTL=127
Reply from 172.16.26.1: bytes=32 time<1ms TTL=127
Reply from 172.16.26.1: bytes=32 time<1ms TTL=127

Ping statistics for 172.16.26.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 172.16.28.1

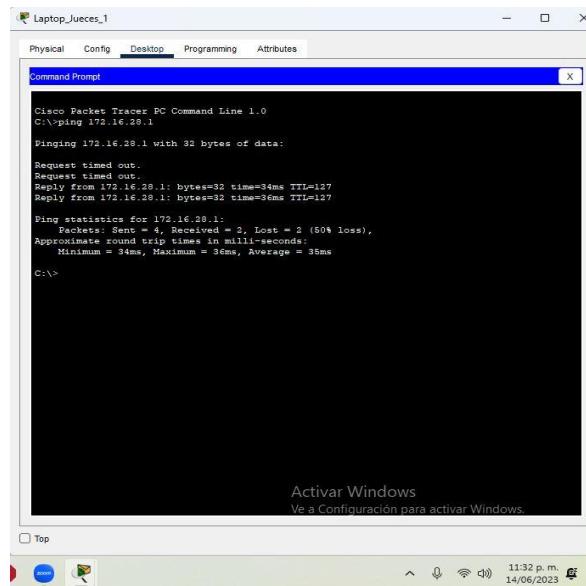
Pinging 172.16.28.1 with 32 bytes of data:
Request timed out.
Reply from 172.16.28.1: bytes=32 time=26ms TTL=127
Reply from 172.16.28.1: bytes=32 time=30ms TTL=127
Reply from 172.16.28.1: bytes=32 time=33ms TTL=127

Ping statistics for 172.16.28.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
approximate round trip times in milli-seconds:
    Minimum = 26ms, Maximum = 33ms, Average = 29ms

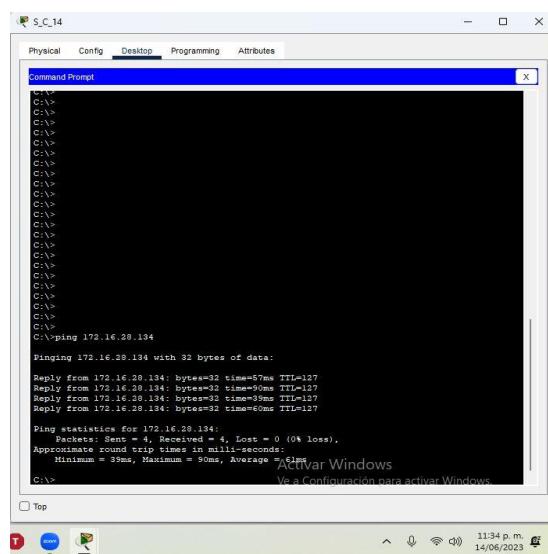
C:\>
```

Activar Windows  
Ve a Configuración para activar Windows.

## JUECES A PRENSA

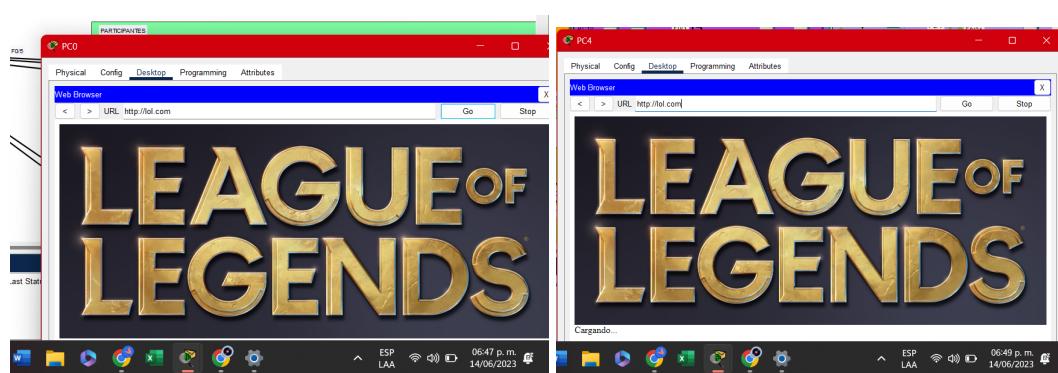


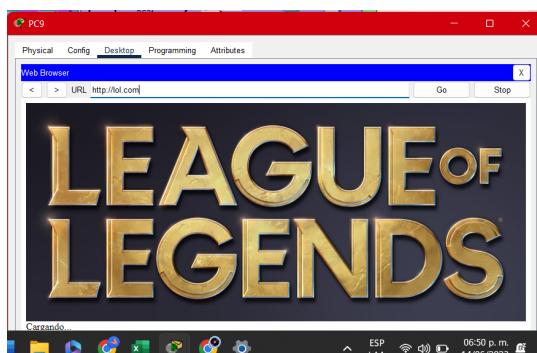
## COACHES A JUECES



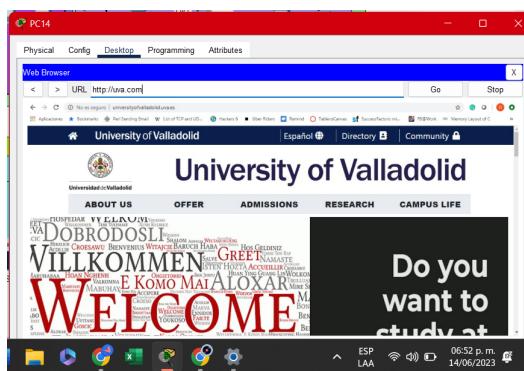
Pruebas de conexión hacia internet de dispositivos:

Primaria:

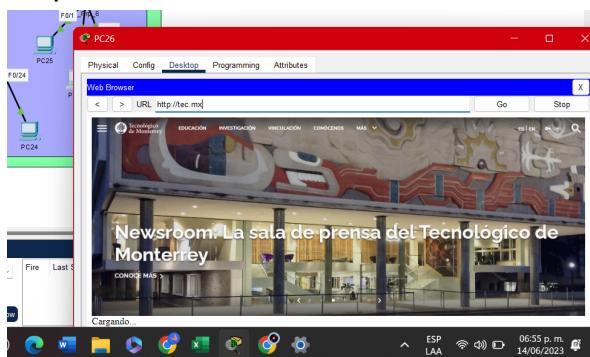




Secundaria:



Preparatoria:



Jueces:



## Evidencia de trabajo en equipo:

