

Element	Description
Environmental Sensors	Devices that monitor conditions such as temperature, humidity, and air quality, and can adjust HVAC systems to improve comfort and energy efficiency.
Intelligent Security Systems	Cameras and sensors connected to the network that monitor security in real-time and alert about possible incidents.
Intelligent Lighting	Lights that adjust according to occupancy or natural light, reducing energy consumption and improving the user experience.
Intelligent Access Management	Controlled access solutions that use smart cards or mobile devices to improve security and comfort of access to buildings and facilities.
Energy Management Systems	Integration of IoT devices with energy management systems to optimize use and reduce energy costs.
Electric Vehicle Charging Infrastructure	Intelligent charging stations that can be monitored and controlled to optimize energy use and facilitate the charging of electric vehicles.

By integrating these elements into the network, the academic institution would not only improve the efficiency and performance of its IT infrastructure, but also contribute to the creation of a safer, more sustainable, and technologically advanced campus. Additionally, the transition to IPv6 with its vast address space is essential for supporting the proliferation of IoT devices on the network.

**Optimize the network from the previous phase (phase 2) with the following requirements:**

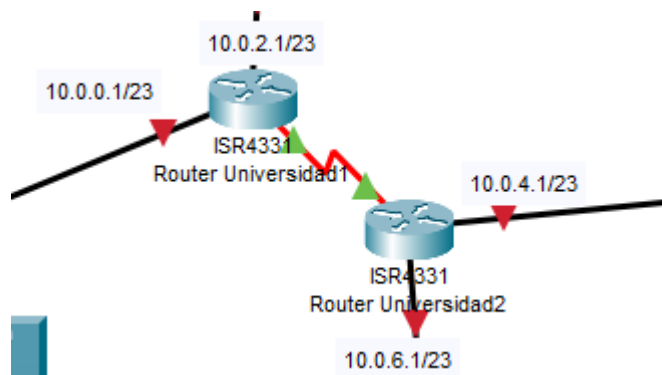
- **Step-by-step calculations for IPv6 address assignment for each of the designed subnets, including the address class, the IP address, and the group planning the address or requesting the tutor to assign one.**

To transform IPv4 addresses to IPv6 in a network scheme, a commonly followed approach is to reflect the internal organization of the IPv4 network within the much larger IPv6 address space. The recommended practice for local networks is to utilize /64 subnets, as this aligns with the standard for address autoconfiguration and is compatible with most network scenarios.

Supposing the network is assigned a unique global IPv6 prefix like, for instance, 2001:0db8:acad::/48, each IPv4 subnet could correspond to a /64 subnet within this block. Here's how the equivalent IPv6 addresses might look:

**Another subnet was added because the previous router didn't support IPv6, and the new router only allowed for 2 gigabit interfaces while the network required 4.**

Subred	IPv4 Network Address	IPv6 Network Address/64	Range of Usable IPv6 Addresses
Administration	10.0.0.0/23	2001:0db8:acad:0::/64	2001:0db8:acad:0::1 hasta 2001:0db8:acad:0:ffff:ffff:ffff:fffe
Students	10.0.2.0/23	2001:0db8:acad:1::/64	2001:0db8:acad:1::1 hasta 2001:0db8:acad:1:ffff:ffff:ffff:fffe
Teachers	10.0.4.0/23	2001:0db8:acad:2::/64	2001:0db8:acad:2::1 hasta 2001:0db8:acad:2:ffff:ffff:ffff:fffe
Wireless	10.0.6.0/23	2001:0db8:acad:3::/64	2001:0db8:acad:3::1 hasta 2001:0db8:acad:3:ffff:ffff:ffff:fffe
Router connection	10.0.8.0/30	2001:0db8:acad:4::/64	2001:0db8:acad:4::1 hasta 2001:0db8:acad:4:ffff:ffff:ffff:fffe



For a /64 subnet, the first 64 bits are used for network identification, and the last 64 bits are used for the interface or host. Given an IPv6 prefix such as 2001:db8:acad:X::/64 where X represents the subnet, the range of usable addresses is from 2001:db8:acad:X::1 to 2001:db8:acad:X:ffff:ffff:ffff:fffe.

The structure of the IPv6 address is as follows:  
2001:0db8:acad:000X:0000:0000:0000:0000 /64

The last 64 bits (the last set of four blocks) are used for host addresses. So, the range would be from the first host: 2001:0db8:acad:000X:0000:0000:0000:0001

Up to the last possible host in that subnet, which would be:  
2001:0db8:acad:000X:ffff:ffff:ffff:fffe

The last address, which is all bits set to one except the last bit, is the subnet multicast address, which in this case would be: 2001:0db8:acad:000X:ffff:ffff:ffff:ffff

- **Specify the type of network to use.**

The type of network to use would be an Ethernet Local Area Network (LAN) with dual-stack capability (IPv4/IPv6) for wired connections, and a Wireless Local Area Network (WLAN) with IPv6 support for wireless connectivity, thereby providing comprehensive coverage for both fixed and mobile devices on the academic campus.

- **The network must contain at least 4 subnets in IPv6, one of which must be wireless.**

The same networks from the previous design will be used, but now with IPv6 as well.

SubNet	Description
SubNet 1	Wired network for administration
SubNet 2	Wired network for students
SubNet 3	Wired network for teachers
SubNet 4	Wireless network for general access
SubNet 5	Connection network for the 2 routers

Subred	IPv4 Network Address	IPv6 Network Address/64	Range of Usable IPv6 Addresses
Administration	10.0.0.0/23	2001:0db8:acad:0::/64	2001:0db8:acad:0::1 hasta 2001:0db8:acad:0:ffff:ffff:ffff:fffe
Students	10.0.2.0/23	2001:0db8:acad:1::/64	2001:0db8:acad:1::1 hasta 2001:0db8:acad:1:ffff:ffff:ffff:fffe
Teachers	10.0.4.0/23	2001:0db8:acad:2::/64	2001:0db8:acad:2::1 hasta 2001:0db8:acad:2:ffff:ffff:ffff:fffe
Wireless	10.0.6.0/23	2001:0db8:acad:3::/64	2001:0db8:acad:3::1 hasta 2001:0db8:acad:3:ffff:ffff:ffff:fffe
Router connection	10.0.8.0/30	2001:0db8:acad:4::/64	2001:0db8:acad:4::1 hasta 2001:0db8:acad:4:ffff:ffff:ffff:fffe

**Another subnet was added because the previous router didn't support IPv6, and the new router only allowed for 2 gigabit interfaces while the network required 4.**

- **The network must contain at least one web server that displays the page of the selected location, after connecting with a device on the simulated network. This page should show information such as the location for which the network is designed, the collaborative group number, and the names of the group members. Additionally, it should include a mail server with the domain of the selected location.**

**Web Server: The web server can be placed in the administration subnet to keep it secure.**

**An appropriate IP address for the web server could be 2001:0db8:acad:0::5/64.**

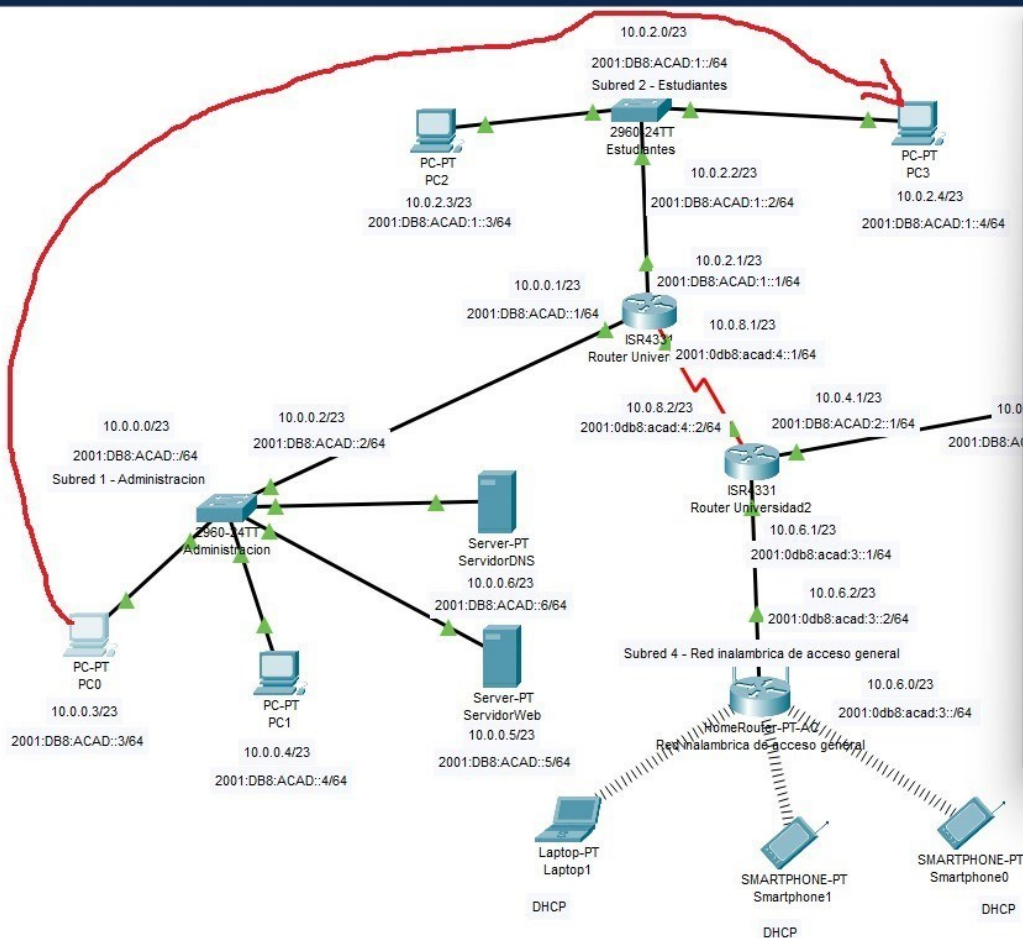
- **The network must include a service for connecting users of the created network to a main headquarters, for example, the connection between medical offices in a municipality and specialist doctors' offices located in a capital city.**

Connection between Users and Main Headquarters: The specific configuration will depend on the infrastructure of the main headquarters, but an address within the range of addresses of the administration subnet can be used for the VPN device or the router that handles these connections.

**Regarding the main connection, the administration subnet was used, and the other subnet would be for teachers.**

• The transmission of data packets across the entire network must be evident.

Screenshots showing successful ping and responses will be displayed for each subnet: Administration -> Students.



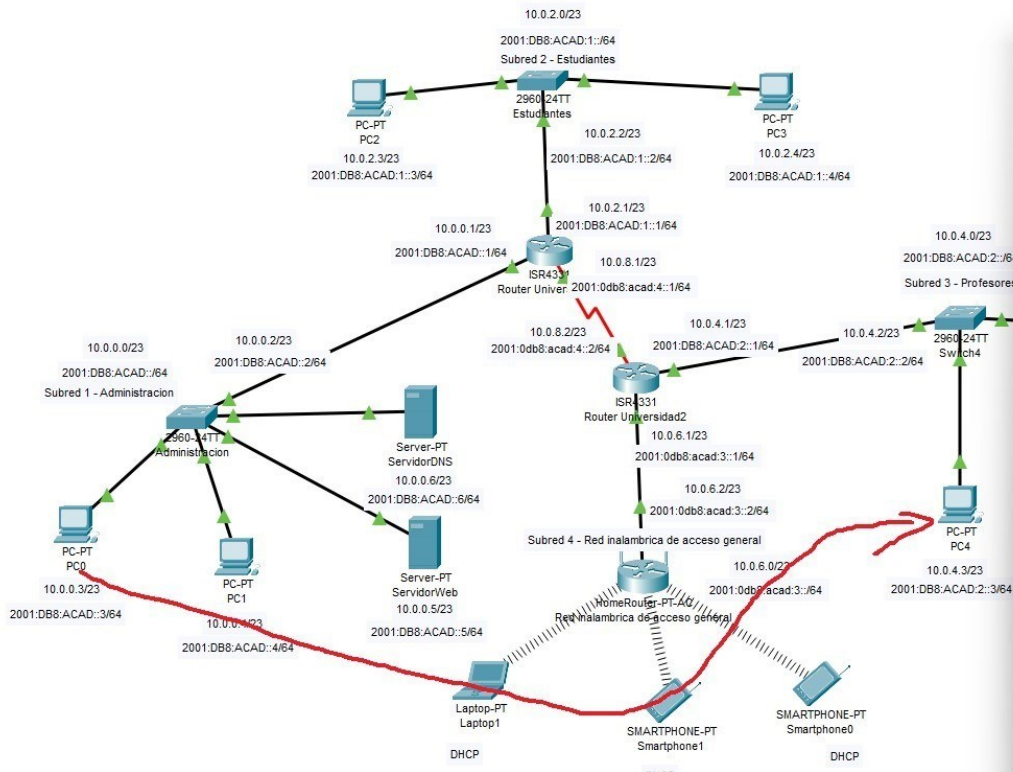
```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 2001:DB8:ACAD:1::4
C:\>

Pinging 2001:DB8:ACAD:1::4 with 32 bytes of data:

Reply from 2001:DB8:ACAD:1::4: bytes=32 time<1ms TTL=127
Reply from 2001:DB8:ACAD:1::4: bytes=32 time<1ms TTL=127
Reply from 2001:DB8:ACAD:1::4: bytes=32 time<1ms TTL=127
Reply from 2001:DB8:ACAD:1::4: bytes=32 time<1ms TTL=127

Ping statistics for 2001:DB8:ACAD:1::4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
```

## Administration -> Teachers



PC0

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 2001:DB8:ACAD:2::3

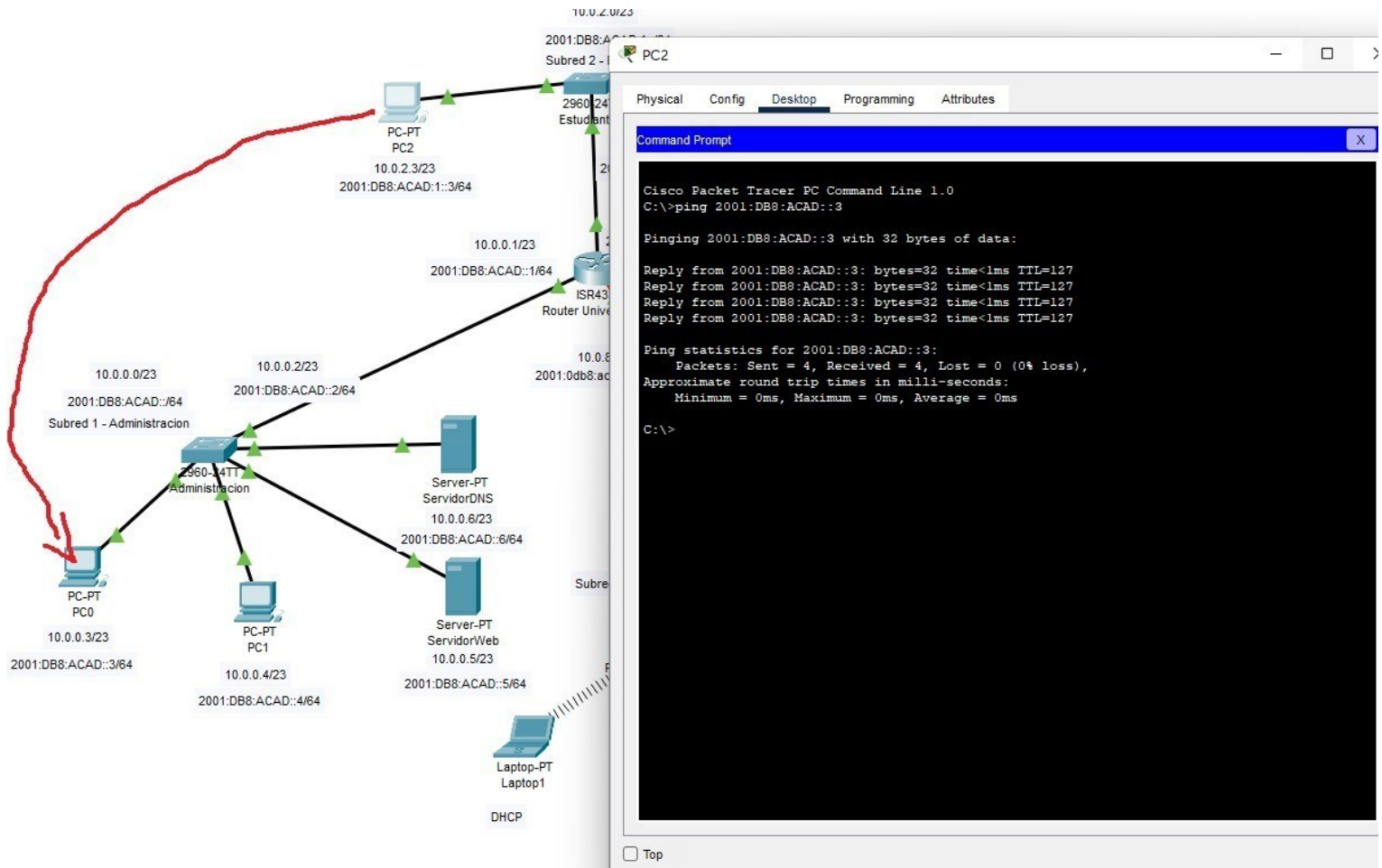
Pinging 2001:DB8:ACAD:2::3 with 32 bytes of data:

Reply from 2001:DB8:ACAD:2::3: bytes=32 time=14ms TTL=126
Reply from 2001:DB8:ACAD:2::3: bytes=32 time=21ms TTL=126
Reply from 2001:DB8:ACAD:2::3: bytes=32 time=18ms TTL=126
Reply from 2001:DB8:ACAD:2::3: bytes=32 time=17ms TTL=126

Ping statistics for 2001:DB8:ACAD:2::3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 14ms, Maximum = 21ms, Average = 17ms
C:\>
```

☐ Top

## Students -> Administration





El diagrama ilustra la configuración de una red de una universidad, organizada en subredes y conectada por routers y switches.

**Subred 1 - Administración:** Incluye un switch 2960-24TT y tres PCs (PC0, PC1, PC2). Las direcciones IP asignadas son 10.0.0.3/23, 10.0.0.4/23 y 10.0.0.2/23. Las direcciones de red y máscara son 10.0.0.0/23 y 2001.DB8:ACAD::/64.

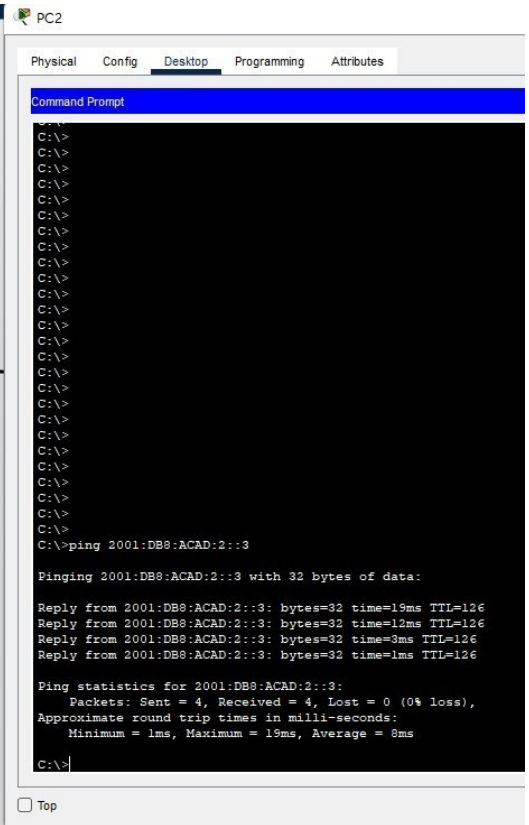
**Subred 2 - Estudiantes:** Incluye un switch 2960-24TT y dos PCs (PC2, PC3). Las direcciones IP asignadas son 10.0.2.3/23 y 10.0.2.4/23. Las direcciones de red y máscara son 10.0.2.0/23 y 2001.DB8:ACAD:1::/64.

**Subred 3 - Profesores:** Incluye un switch 2960-24TT y un PC (PC4). Las direcciones IP asignadas son 10.0.4.2/23 y 10.0.4.3/23. Las direcciones de red y máscara son 10.0.4.0/23 y 2001.DB8:ACAD:2::/64.

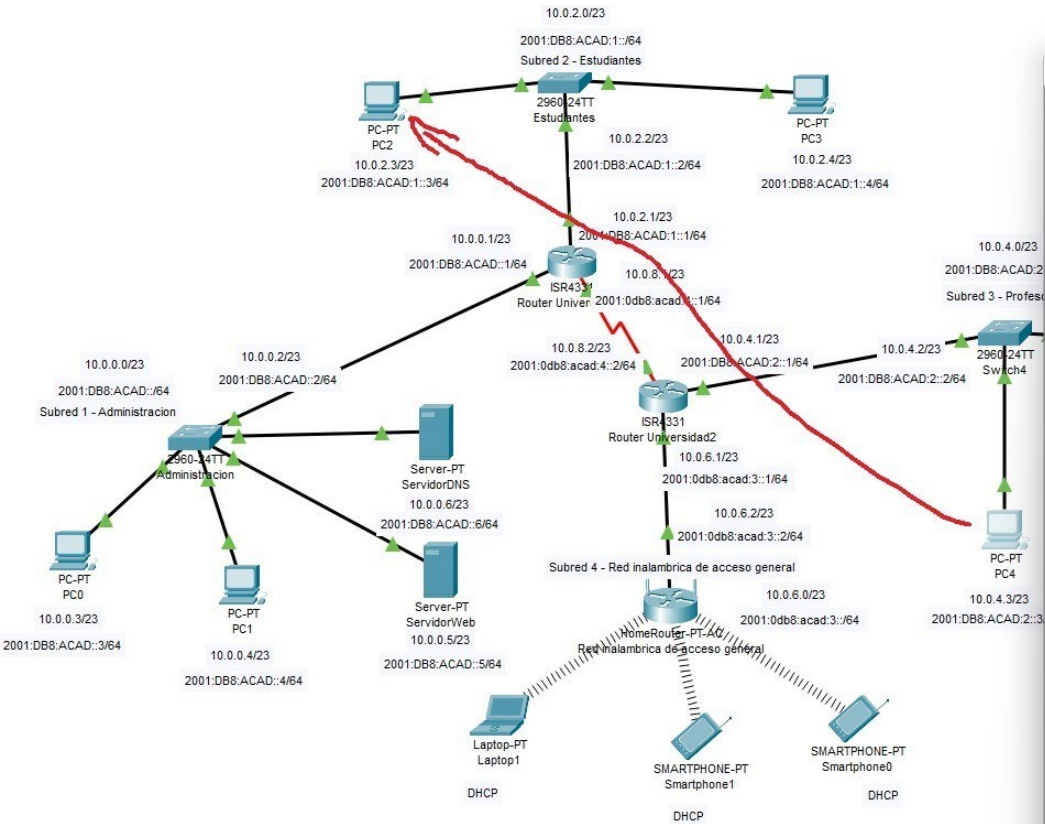
**Subred 4 - Red inalámbrica de acceso general:** Incluye un router 3501 y dispositivos inalámbricos (Laptop-PT, Smartphone-PT). Las direcciones IP asignadas son 10.0.6.2/23 y 10.0.6.3/23. Las direcciones de red y máscara son 10.0.6.0/23 y 2001.DB8:ACAD:3::/64.

**Dispositivos de Red:**

- Router 3501:** Conectado a las subredes 1, 2, 3 y 4. Las direcciones de interfaz son 10.0.0.1/23, 10.0.2.1/23, 10.0.4.1/23 y 10.0.6.1/23.
- Router 4331:** Conectado a la subred 4 y a la subred 5. Las direcciones de interfaz son 10.0.8.1/23 y 10.0.8.2/23.
- Router 4341:** Conectado a la subred 5 y a la subred 6. Las direcciones de interfaz son 10.0.8.3/23 y 10.0.8.4/23.
- Router 4351:** Conectado a la subred 6 y a la subred 7. Las direcciones de interfaz son 10.0.8.5/23 y 10.0.8.6/23.
- Router 4361:** Conectado a la subred 7 y a la subred 8. Las direcciones de interfaz son 10.0.8.7/23 y 10.0.8.8/23.
- Router 4371:** Conectado a la subred 8 y a la subred 9. Las direcciones de interfaz son 10.0.8.9/23 y 10.0.8.10/23.
- Router 4381:** Conectado a la subred 9 y a la subred 10. Las direcciones de interfaz son 10.0.8.11/23 y 10.0.8.12/23.
- Router 4391:** Conectado a la subred 10 y a la subred 11. Las direcciones de interfaz son 10.0.8.13/23 y 10.0.8.14/23.
- Router 4401:** Conectado a la subred 11 y a la subred 12. Las direcciones de interfaz son 10.0.8.15/23 y 10.0.8.16/23.
- Router 4411:** Conectado a la subred 12 y a la subred 13. Las direcciones de interfaz son 10.0.8.17/23 y 10.0.8.18/23.
- Router 4421:** Conectado a la subred 13 y a la subred 14. Las direcciones de interfaz son 10.0.8.19/23 y 10.0.8.20/23.
- Router 4431:** Conectado a la subred 14 y a la subred 15. Las direcciones de interfaz son 10.0.8.21/23 y 10.0.8.22/23.
- Router 4441:** Conectado a la subred 15 y a la subred 16. Las direcciones de interfaz son 10.0.8.23/23 y 10.0.8.24/23.
- Router 4451:** Conectado a la subred 16 y a la subred 17. Las direcciones de interfaz son 10.0.8.25/23 y 10.0.8.26/23.
- Router 4461:** Conectado a la subred 17 y a la subred 18. Las direcciones de interfaz son 10.0.8.27/23 y 10.0.8.28/23.
- Router 4471:** Conectado a la subred 18 y a la subred 19. Las direcciones de interfaz son 10.0.8.29/23 y 10.0.8.30/23.
- Router 4481:** Conectado a la subred 19 y a la subred 20. Las direcciones de interfaz son 10.0.8.31/23 y 10.0.8.32/23.
- Router 4491:** Conectado a la subred 20 y a la subred 21. Las direcciones de interfaz son 10.0.8.33/23 y 10.0.8.34/23.
- Router 4501:** Conectado a la subred 21 y a la subred 22. Las direcciones de interfaz son 10.0.8.35/23 y 10.0.8.36/23.
- Router 4511:** Conectado a la subred 22 y a la subred 23. Las direcciones de interfaz son 10.0.8.37/23 y 10.0.8.38/23.
- Router 4521:** Conectado a la subred 23 y a la subred 24. Las direcciones de interfaz son 10.0.8.39/23 y 10.0.8.40/23.
- Router 4531:** Conectado a la subred 24 y a la subred 25. Las direcciones de interfaz son 10.0.8.41/23 y 10.0.8.42/23.
- Router 4541:** Conectado a la subred 25 y a la subred 26. Las direcciones de interfaz son 10.0.8.43/23 y 10.0.8.44/23.
- Router 4551:** Conectado a la subred 26 y a la subred 27. Las direcciones de interfaz son 10.0.8.45/23 y 10.0.8.46/23.
- Router 4561:** Conectado a la subred 27 y a la subred 28. Las direcciones de interfaz son 10.0.8.47/23 y 10.0.8.48/23.
- Router 4571:** Conectado a la subred 28 y a la subred 29. Las direcciones de interfaz son 10.0.8.49/23 y 10.0.8.50/23.
- Router 4581:** Conectado a la subred 29 y a la subred 30. Las direcciones de interfaz son 10.0.8.51/23 y 10.0.8.52/23.
- Router 4591:** Conectado a la subred 30 y a la subred 31. Las direcciones de interfaz son 10.0.8.53/23 y 10.0.8.54/23.
- Router 4601:** Conectado a la subred 31 y a la subred 32. Las direcciones de interfaz son 10.0.8.55/23 y 10.0.8.56/23.
- Router 4611:** Conectado a la subred 32 y a la subred 33. Las direcciones de interfaz son 10.0.8.57/23 y 10.0.8.58/23.
- Router 4621:** Conectado a la subred 33 y a la subred 34. Las direcciones de interfaz son 10.0.8.59/23 y 10.0.8.60/23.
- Router 4631:** Conectado a la subred 34 y a la subred 35. Las direcciones de interfaz son 10.0.8.61/23 y 10.0.8.62/23.
- Router 4641:** Conectado a la subred 35 y a la subred 36. Las direcciones de interfaz son 10.0.8.63/23 y 10.0.8.64/23.
- Router 4651:** Conectado a la subred 36 y a la subred 37. Las direcciones de interfaz son 10.0.8.65/23 y 10.0.8.66/23.
- Router 4661:** Conectado a la subred 37 y a la subred 38. Las direcciones de interfaz son 10.0.8.67/23 y 10.0.8.68/23.
- Router 4671:** Conectado a la subred 38 y a la subred 39. Las direcciones de interfaz son 10.0.8.69/23 y 10.0.8.70/23.
- Router 4681:** Conectado a la subred 39 y a la subred 40. Las direcciones de interfaz son 10.0.8.71/23 y 10.0.8.72/23.
- Router 4691:** Conectado a la subred 40 y a la subred 41. Las direcciones de interfaz son 10.0.8.73/23 y 10.0.8.74/23.
- Router 4701:** Conectado a la subred 41 y a la subred 42. Las direcciones de interfaz son 10.0.8.75/23 y 10.0.8.76/23.
- Router 4711:** Conectado a la subred 42 y a la subred 43. Las direcciones de interfaz son 10.0.8.77/23 y 10.0.8.78/23.
- Router 4721:** Conectado a la subred 43 y a la subred 44. Las direcciones de interfaz son 10.0.8.79/23 y 10.0.8.80/23.
- Router 4731:** Conectado a la subred 44 y a la subred 45. Las direcciones de interfaz son 10.0.8.81/23 y 10.0.8.82/23.
- Router 4741:** Conectado a la subred 45 y a la subred 46. Las direcciones de interfaz son 10.0.8.83/23 y 10.0.8.84/23.
- Router 4751:** Conectado a la subred 46 y a la subred 47. Las direcciones de interfaz son 10.0.8.85/23 y 10.0.8.86/23.
- Router 4761:** Conectado a la subred 47 y a la subred 48. Las direcciones de interfaz son 10.0.8.87/23 y 10.0.8.88/23.
- Router 4771:** Conectado a la subred 48 y a la subred 49. Las direcciones de interfaz son 10.0.8.89/23 y 10.0.8.90/23.
- Router 4781:** Conectado a la subred 49 y a la subred 50. Las direcciones de interfaz son 10.0.8.91/23 y 10.0.8.92/23.
- Router 4791:** Conectado a la subred 50 y a la subred 51. Las direcciones de interfaz son 10.0.8.93/23 y 10.0.8.94/23.
- Router 4801:** Conectado a la subred 51 y a la subred 52. Las direcciones de interfaz son 10.0.8.95/23 y 10.0.8.96/23.
- Router 4811:** Conectado a la subred 52 y a la subred 53. Las direcciones de interfaz son 10.0.8.97/23 y 10.0.8.98/23.
- Router 4821:** Conectado a la subred 53 y a la subred 54. Las direcciones de interfaz son 10.0.8.99/23 y 10.0.8.100/23.
- Router 4831:** Conectado a la subred 54 y a la subred 55. Las direcciones de interfaz son 10.0.8.101/23



## Teachers -> Students



PC4

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 2001:DB8:ACAD:1::3

Pinging 2001:DB8:ACAD:1::3 with 32 bytes of data:

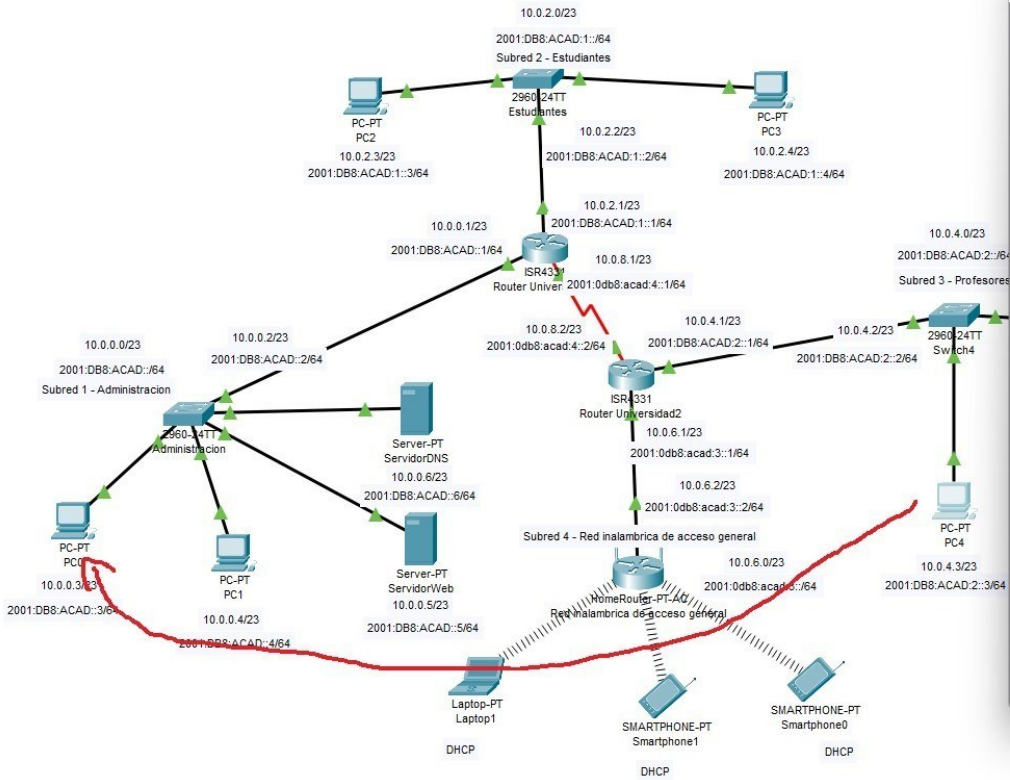
Reply from 2001:DB8:ACAD:1::3: bytes=32 time=18ms TTL=126
Reply from 2001:DB8:ACAD:1::3: bytes=32 time=22ms TTL=126
Reply from 2001:DB8:ACAD:1::3: bytes=32 time=7ms TTL=126
Reply from 2001:DB8:ACAD:1::3: bytes=32 time=17ms TTL=126

Ping statistics for 2001:DB8:ACAD:1::3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 22ms, Average = 16ms

C:\>
```

☐ Top

## Teachers -> Administration



PC4

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 2001:DB8:ACAD::3

Pinging 2001:DB8:ACAD::3 with 32 bytes of data:

Reply from 2001:DB8:ACAD::3: bytes=32 time=20ms TTL=126
Reply from 2001:DB8:ACAD::3: bytes=32 time=1ms TTL=126
Reply from 2001:DB8:ACAD::3: bytes=32 time=21ms TTL=126
Reply from 2001:DB8:ACAD::3: bytes=32 time=8ms TTL=126

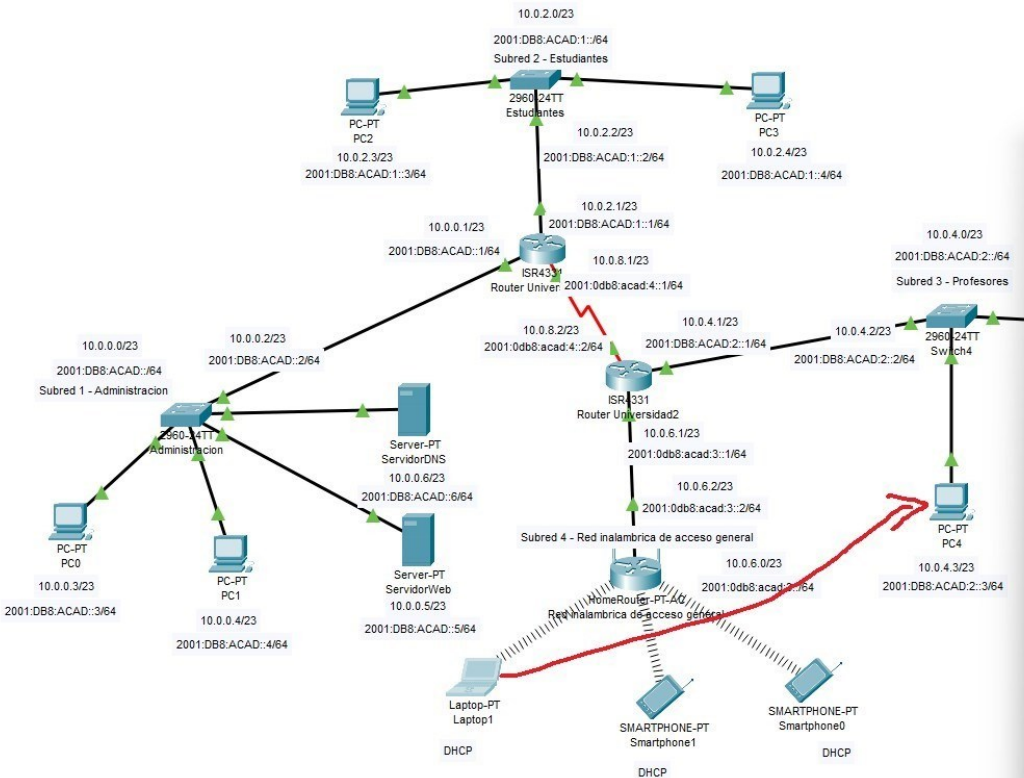
Ping statistics for 2001:DB8:ACAD::3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 21ms, Average = 12ms

C:\>
```

☐ Top

## Wireless network -> Teachers

Root



Laptop1

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 2001:DB8:ACAD:2::3

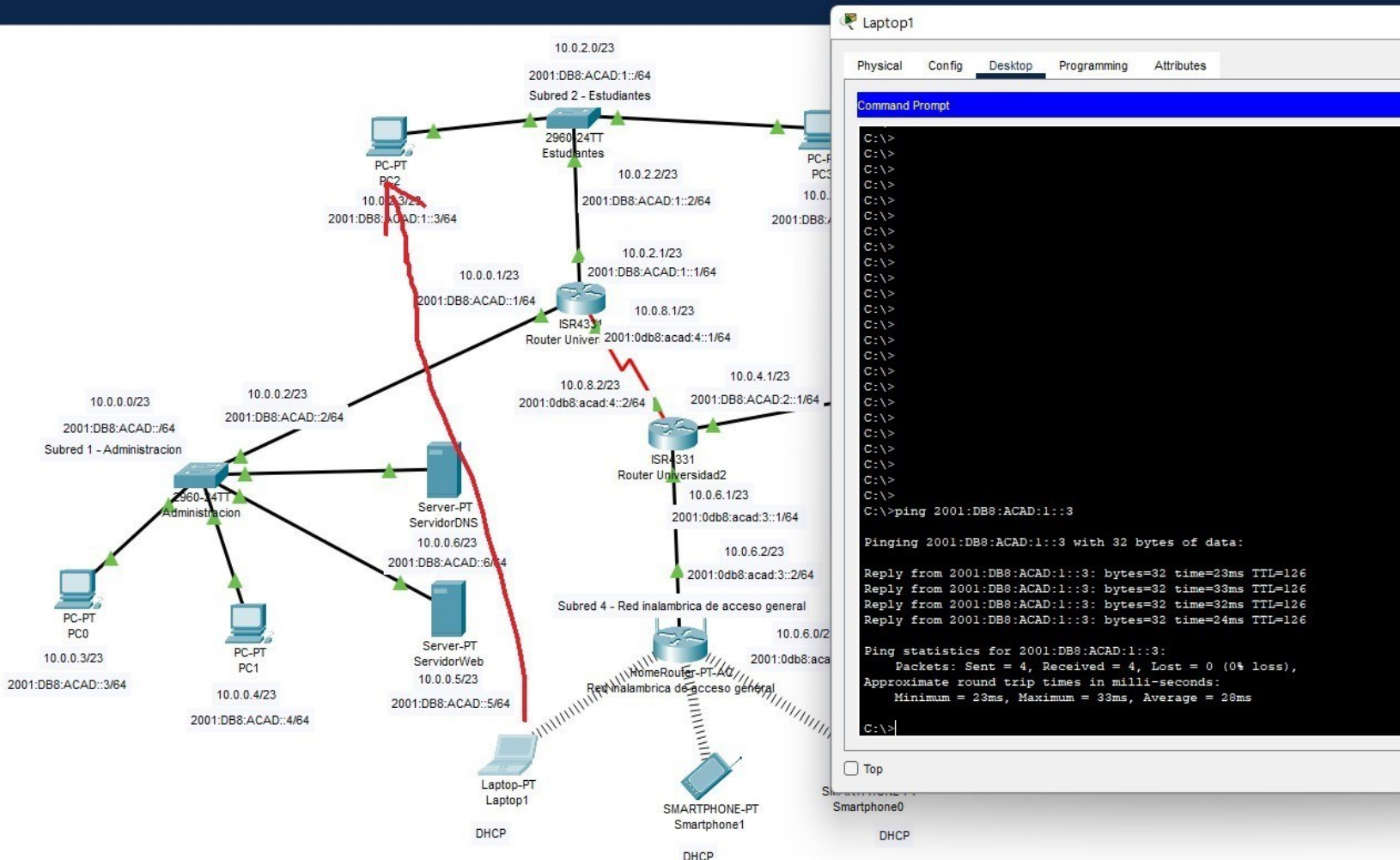
Pinging 2001:DB8:ACAD:2::3 with 32 bytes of data:

Reply from 2001:DB8:ACAD:2::3: bytes=32 time=16ms TTL=127
Reply from 2001:DB8:ACAD:2::3: bytes=32 time=109ms TTL=127
Reply from 2001:DB8:ACAD:2::3: bytes=32 time=16ms TTL=127
Reply from 2001:DB8:ACAD:2::3: bytes=32 time=16ms TTL=127

Ping statistics for 2001:DB8:ACAD:2::3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 16ms, Maximum = 109ms, Average = 39ms

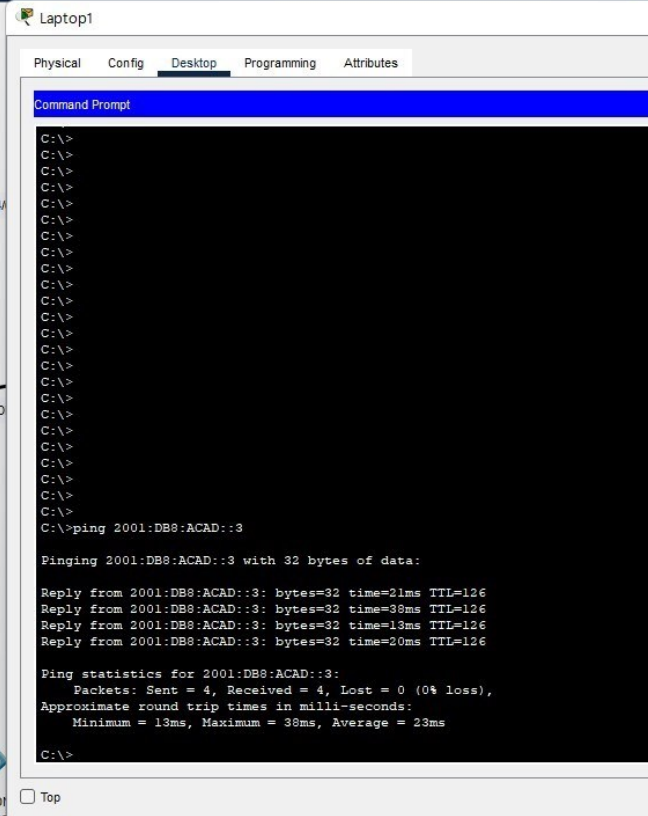
C:\>
```

## Wireless network -> Students





## 150



• A description of the network's operation and how it responds to the selected requirement, along with screenshots that demonstrate the functionality, must be included in the report. Each screenshot should be described in detail within the report.

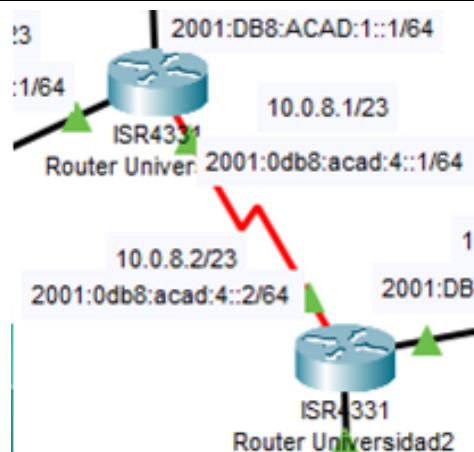
The network was designed as a university network as requested by the guidelines. Four subnets were created, including one wireless subnet, and another main network which serves as the administration subnet.

*Additionally, an extra mini subnet was created to facilitate the connection between the two routers. This was necessary because a single router only contained 2 gigabit interfaces, while there were more than 2 networks in the setup.*

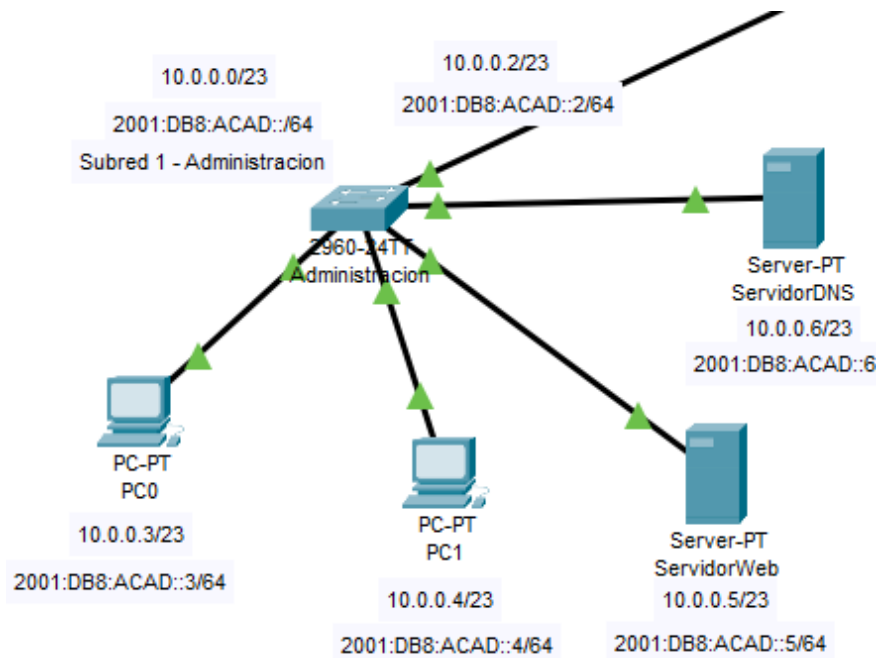
SubNet	Description
SubNet 1	Wired network for administration
SubNet 2	Wired network for students
SubNet 3	Wired network for teachers
SubNet 4	Wireless network for general access
SubNet 5	Connection network for the 2 routers

Following IP addresses were assigned to each network, providing a wide range for devices.

Subred	IPv4 Network Address	IPv6 Network Address/64	Range of Usable IPv6 Addresses
Administration	10.0.0.0/23	2001:0db8:acad:0::/64	2001:0db8:acad:0::1 hasta 2001:0db8:acad:0:ffff:ffff:ffff:fffe
Students	10.0.2.0/23	2001:0db8:acad:1::/64	2001:0db8:acad:1::1 hasta 2001:0db8:acad:1:ffff:ffff:ffff:fffe
Teachers	10.0.4.0/23	2001:0db8:acad:2::/64	2001:0db8:acad:2::1 hasta 2001:0db8:acad:2:ffff:ffff:ffff:fffe
Wireless	10.0.6.0/23	2001:0db8:acad:3::/64	2001:0db8:acad:3::1 hasta 2001:0db8:acad:3:ffff:ffff:ffff:fffe
Router connection	10.0.8.0/30	2001:0db8:acad:4::/64	2001:0db8:acad:4::1 hasta 2001:0db8:acad:4:ffff:ffff:ffff:fffe

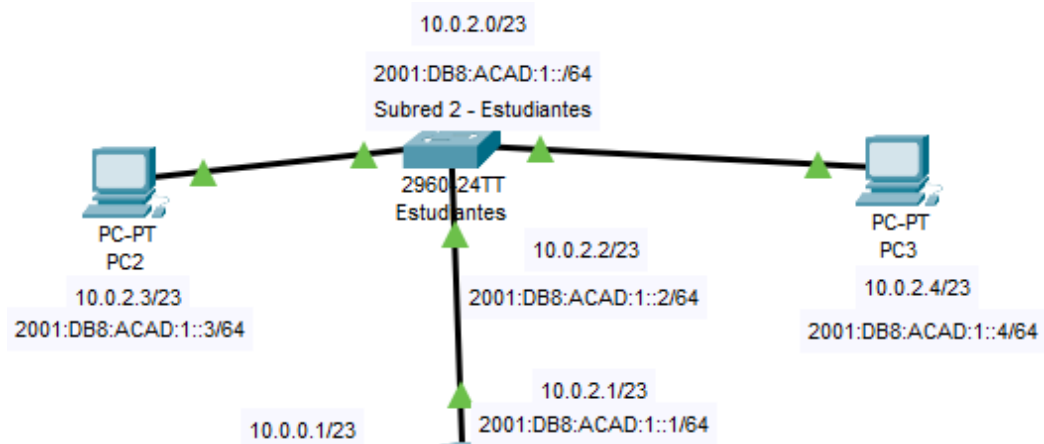


Switch Administration		
Interface	Ipv4	Ipv4
Gig0/1	10.0.0.2/23	2001:DB8:ACAD::2/64
Fa0/1	10.0.0.3/23	2001:DB8:ACAD::3/64
Fa0/2	10.0.0.4/23	2001:DB8:ACAD::4/64
Fa0/3	10.0.0.5/23	2001:DB8:ACAD::5/64
Fa0/4	10.0.0.6/23	2001:DB8:ACAD::6/64

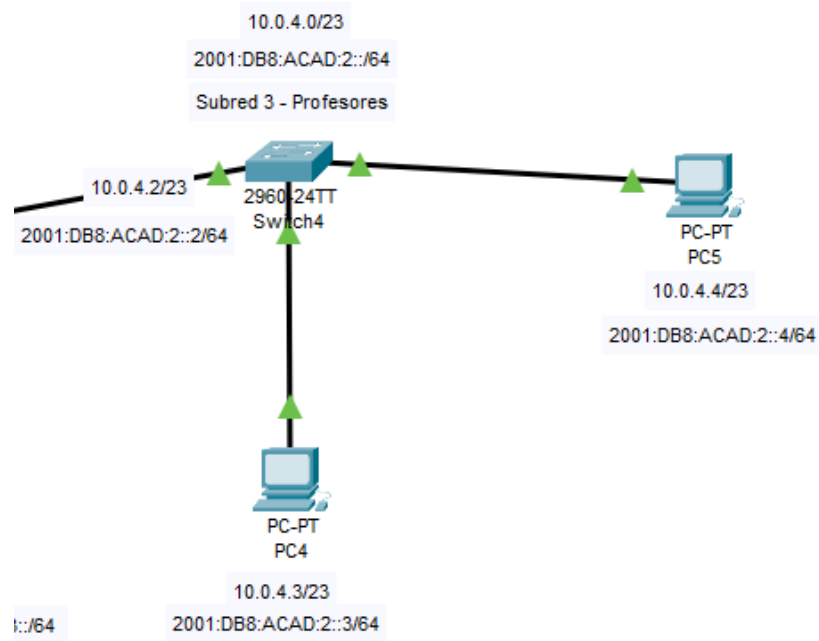




Switch Students		
Interface	Ipv4	Ipv4
Gig0/1	10.0.2.2/23	2001:DB8:ACAD:1::2/64
Fa0/1	10.0.2.3/23	2001:DB8:ACAD:1::3/64
Fa0/2	10.0.2.4/23	2001:DB8:ACAD:1::4/64

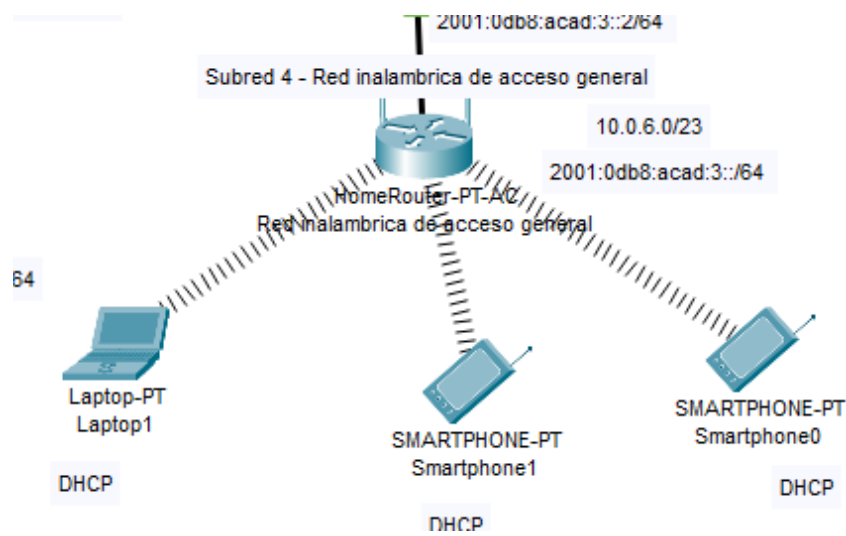


Switch Teachers		
Interface	Ipv4	Ipv4
Gig0/1	10.0.4.2/23	2001:DB8:ACAD:2::2/64
Fa0/1	10.0.4.3/23	2001:DB8:ACAD:2::3/64
Fa0/2	10.0.4.4/23	2001:DB8:ACAD:2::4/64



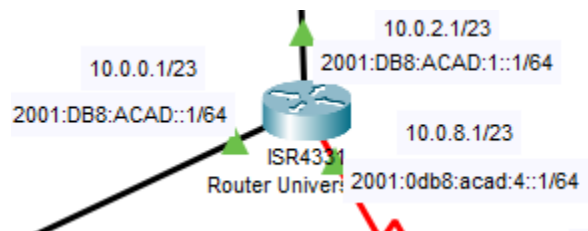
Wireless Network Router		
Interface	Ipv4	Ipv4
Gig0/1	10.0.6.2/23	2001:0db8:acad:3::2/64

In this network, devices connect using DHCP, which means the router automatically assigns them an IP address. This is common in real life, as when connecting a cellphone to a wireless network, it's unlikely that the IP address would be assigned manually.



University Router 1		
Interface	Ipv4	Ipv4
Gig0/0/0	10.0.0.1/23	2001:DB8:ACAD::1/64
Gig0/0/1	10.0.2.1/23	2001:DB8:ACAD:1::1/64
Serial0/1/0	10.0.8.1/23	2001:0db8:acad:4::1/64

Two routers were set up because the router from the previous activity didn't support IPv6, and this new router only supports 2 gigabit ports. It's possible to add another port through the simulator, but this port cannot be assigned an IP address.



University Router 2		
Interface	Ipv4	Ipv4
Gig0/0/0	10.0.4.1/23	2001:DB8:ACAD:2::1/64
Gig0/0/1	10.0.6.1/23	2001:DB8:ACAD:1::1/64
Serial0/1/0	10.0.8.2/23	2001:0db8:acad:3::1/64

