



Tecnológico de Estudios Superiores de Ecatepec
División de Ingeniería en Sistemas
Computacionales

Alumno

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Asignatura

Redes de Computadoras

Grupo 5602

Profesor

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Proyecto segundo parcial

Fecha

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Valores del primer octeto de la red

Nombre	Red 1	Red 2	Red 3	Red 4	Red 5	Red 6	Red 7	Red 8	Red 9	Red 10
Campero Granados Luis Daniel	109	173	220	113	134	211	26	149	220	55

Resultados obtenidos

Dirección de red	Dirección IP de referencia	Dirección de difusión	1er dirección asignable a un equipo	Ultima dirección asignable a un equipo	Mascara de red
109.0.0.0	109.100.50.10	109.255.255.255	109.0.0.1	109.255.255.254	255.0.0.0
173.100.0.0	173.100.215.98	173.100.255.255	173.100.0.1	173.100.55.254	255.255.0.0
220.50.100.0	220.50.100.2	220.50.100.255	220.50.100.1	220.50.100.254	255.255.255.0
113.0.0.0	113.10.0.5	113.255.255.255	113.0.0.1	113.255.255.254	255.0.0.0
134.100.0.0	134.100.156.60	211.100.40.255	134.100.0.1	134.100.255.254	255.255.0.0
211.100.40.0	211.100.40.19	26.255.255.255	211.100.40.1	211.100.40.254	255.255.255.0
26.0.0.0	26.10.20.3	149.255.255.255	26.0.0.1	26.255.255.254	255.0.0.0
149.220.0.0	149.220.190.67	149.220.255.255	149.220.0.1	149.220.255.254	255.255.0.0
220.30.100.0	220.30.100.6	220.30.100.255	220.30.100.1	220.30.100.254	255.255.255.0
55.0.0.0	55.10.0.10	55.255.255.255	55.0.0.01	55.255.255.254	255.0.0.0

Equipos Utilizados

Equipo	Dirección IP	Mascara de red	Dirección de GateWay
PC1 - 109.100.50.10	109.0.0.2	255.0.0.0	109.0.0.1
PC2	109.255.255.254	255.0.0.0	109.0.0.1
PC3 - 173.100.215.98	173.100.0.2	255.255.0.0	173.100.0.1
PC4	173.100.255.254	255.255.0.0	173.100.0.1
PC5 - 220.50.100.2	220.50.100.2	255.255.255.0	220.50.100.1
PC6 -	220.50.100.254	255.255.255.0	220.50.100.1
PC7 - 113.10.0.5	113.0.0.2	255.0.0.0	113.0.0.1
PC8	113.255.255.254	255.0.0.0	113.0.0.1
PC9 - 134.100.156.60	134.100.0.2	255.255.0.0	134.100.0.1
PC10	134.100.255.254	255.255.0.0	134.100.0.1
PC11 - 211.100.40.19	211.100.40.2	255.255.255.0	211.100.40.1
PC12	211.100.40.254	255.255.255.0	211.100.40.1
PC13 - 26.10.20.3	26.0.0.2	255.0.0.0	26.0.0.1
PC14	26.255.255.254	255.0.0.0	26.0.0.1
PC15 - 149.220.190.67	149.220.0.2	255.255.0.0	149.220.0.1
PC16	149.220.255.254	255.255.0.0	149.220.0.1
PC17 - 220.30.100.6	220.30.100.2	255.255.255.0	220.30.100.1
PC18	220.30.100.254	255.255.255.0	220.30.100.1
PC19 - 55.10.0.10	55.0.0.2	255.0.0.0	55.0.0.01
PC20	55.255.255.254	255.0.0.0	55.0.0.01

Enlace entre Router 0 y 1:

Equipo	Dirección IP serial 0/0/0	Máscara de red
Router0	192.0.0.1	255.255.255.0
Router1	192.0.0.2	255.255.255.0

Enlace entre Router 1 y 2

Equipo	Dirección IP serial 0/0/1	Máscara de red
Router1	192.0.1.1	255.255.255.0
Router2	192.0.1.2	255.255.255.0

Enlace entre Router 2 y 3:

Equipo	Dirección IP serial 0/0/0	Máscara de red
Router2	192.0.0.3	255.255.255.0
Router3	192.0.0.4	255.255.255.0

Enlace entre Router 3 y 4:

Equipo	Dirección IP serial 0/0/1	Máscara de red
Router3	192.0.1.3	255.255.255.0
Router4	192.0.1.4	255.255.255.0

Enlace entre Router 4 y 5:

Equipo	Dirección IP serial 0/0/0	Máscara de red
Router4	192.0.0.5	255.255.255.0
Router5	192.0.0.6	255.255.255.0

Enlace entre Router 5 y 6:

Equipo	Dirección IP serial 0/0/1	Máscara de red
Router5	192.0.1.5	255.255.255.0
Router6	192.0.1.6	255.255.255.0

Enlace entre Router 6 y 7:

Equipo	Dirección IP serial 0/0/0	Máscara de red
Router6	192.0.0.7	255.255.255.0
Router7	192.0.0.8	255.255.255.0

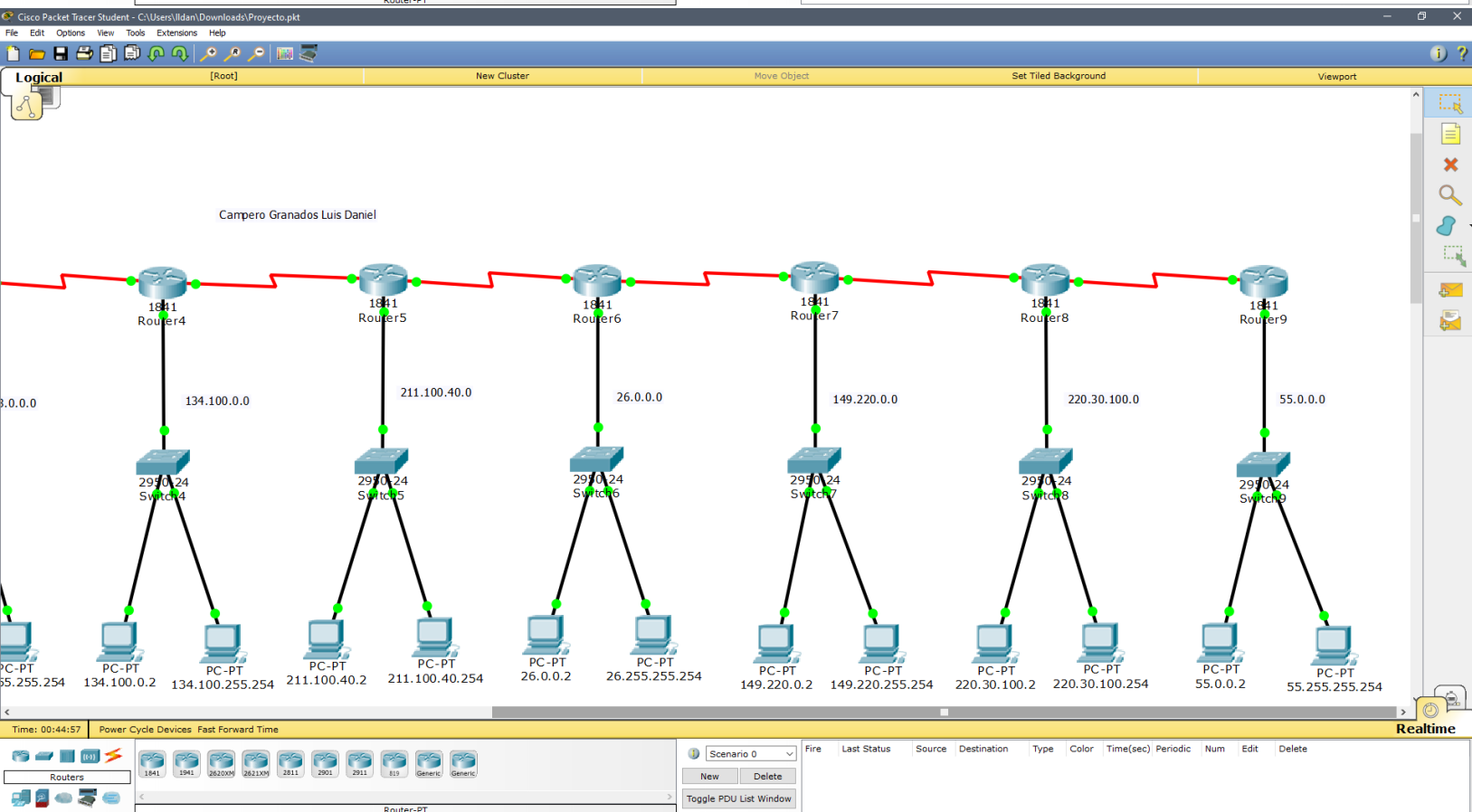
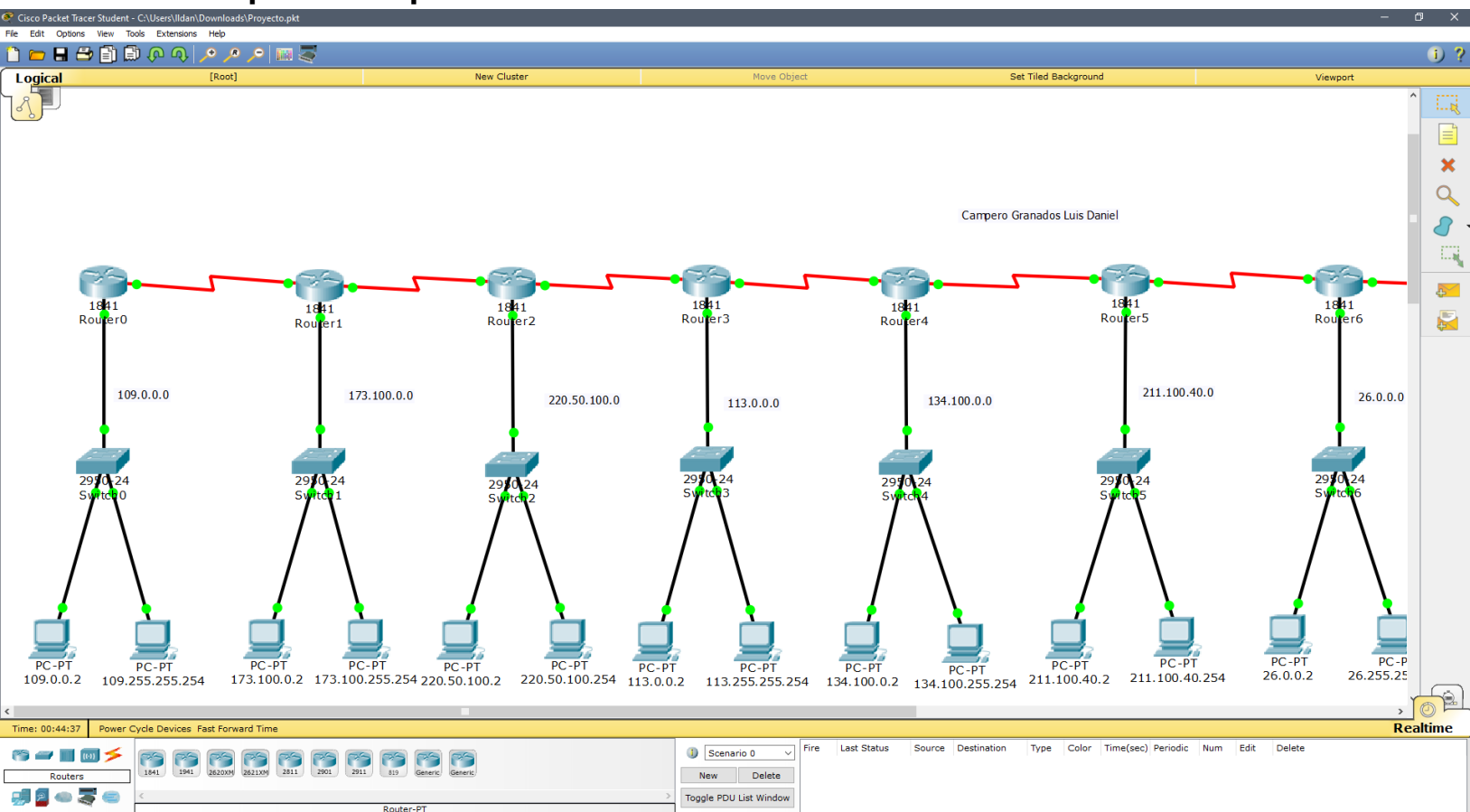
Enlace entre Router 7 y 8

Equipo	Dirección IP serial 0/0/1	Máscara de red
Router7	192.0.1.7	255.255.255.0
Router8	192.0.1.8	255.255.255.0

Enlace entre Router 8 y 9:

Equipo	Dirección IP serial 0/0/0	Máscara de red
Router8	192.0.0.9	255.255.255.0
Router9	192.0.0.10	255.255.255.0

Capturas de pantalla



Router0

PhysicalConfigCLI

MODULES

HWIC-2T

HWIC-4ESW

HWIC-8A

HWIC-AP-AG-B

WIC-1AM

WIC-1ENET

WIC-1T

WIC-2AM

WIC-2T


WIC-Cover

Physical Device View

Zoom In

Original Size


Zoom Out



Customize Icon in Physical View

Customize Icon in Logical View

The HWIC-2T is a Cisco 2-Port Serial High-Speed WAN Interface Card, providing 2 serial ports.



Router0

Physical

Config

CLI

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

RIP Routing

Network

Add

Network Address

109.0.0.0

192.0.0.0

Remove

Equivalent IOS Commands

Router>enable

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#

Router(config)#router rip

Router(config-router)#

Router0

PhysicalConfigCLI

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

FastEthernet0/0

Port Status

☒ On

Bandwidth

☒ 100 Mbps☐ 10 Mbps

☒ Auto

Duplex

☐ Half Duplex☒ Full Duplex

☒ Auto

MAC Address

00D0.FFD7.5401

IP Configuration

IP Address

109.0.0.1

Subnet Mask

255.0.0.0

Tx Ring Limit

10

Equivalent IOS Commands

Router(config-if)#exit

Router(config)#interface FastEthernet0/1

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/1

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#

Router0

Physical

Config

CLI

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

Serial0/0/0

Serial0/0/0

Port Status

☒ On

Duplex

☐ Full Duplex

Clock Rate

2000000

IP Configuration

IP Address

192.0.0.1

Subnet Mask

255.255.255.0

Tx Ring Limit

10

Equivalent IOS Commands

Router(config-if)#exit

Router(config)#interface FastEthernet0/1

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial0/0/0

Router(config-if)#

109.0.0.2

PhysicalConfigDesktopCustom Interface

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Global Settings

Display Name109.0.0.2

Gateway/DNS

DHCP

Static

Gateway109.0.0.1

DNS Server

Gateway/DNS Ipv6

DHCP

Auto Config

Static

IPv6 Gateway

IPv6 DNS Server

109.0.0.2

Physical Config Desktop Custom Interface

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.C743.D029

IP Configuration

☐ DHCP

☒ Static

IP Address 109.0.0.2

Subnet Mask 255.0.0.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address:

109.255.255.254

Physical

Config

Desktop

Custom Interface

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Global Settings

Display Name109.255.255.254

Gateway/DNS

DHCP

Static

Gateway109.0.0.1

DNS Server

Gateway/DNS Ipv6

DHCP

Auto Config

Static

IPv6 Gateway

IPv6 DNS Server

109.255.255.254

Physical Config Desktop Custom Interface

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

FastEthernet0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.96BB.17D5

IP Configuration

☐ DHCP

☒ Static

IP Address 109.255.255.254

Subnet Mask 255.0.0.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

Link Local Address:

