#### Instituto Tecnológico y de Estudios Superiores de Monterrey



#### ActReto05

Grupo 302

Planeación de Reto 10 de junio del 2025

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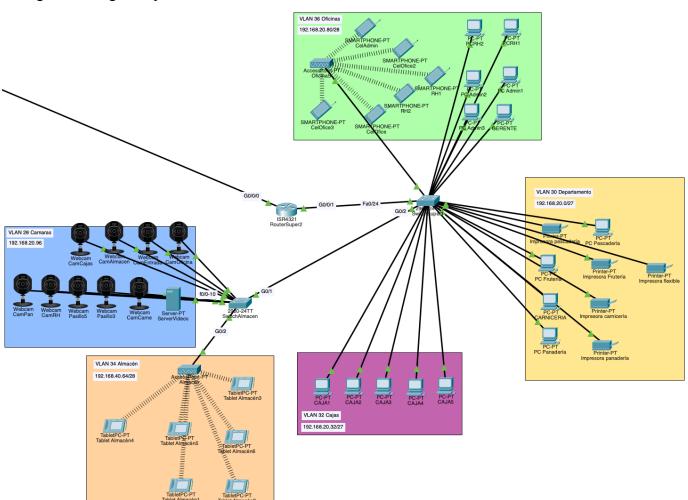
# Descripción de configuraciones

En este reporte, se incluye la configuración de los dispositivos de las redes locales utilizando el protocolo de DHCP de tal manera que será más fácil integrar dispositivos nuevos a la red en un futuro. Por ejemplo, si la empresa de tractos contrata a más conductores y les proporciona otro teléfono con acceso a la red del garaje, este se podrá conectar sin la necesidad de configurar una IP nueva en el sistema. Adicionalmente, se implementaron siete VLANs donde dos son en la oficina de tractos en el switch SwitchCamiones y los otros cinco en SwitchSuper1 y SwitchAlmacen. El router RouterSuper2 fue asigando la IP 192.168.0.1 y RouterCamiones fue asignada la IP 192.168.0.2. Cabe mencionar que la conexión entre los routers se realizó con un cable de cobre en el simulador, pero en la actualidad se va a realizar con fibra óptica; por ahora, solo se utilizó el de cobre por problemas en el simulador.

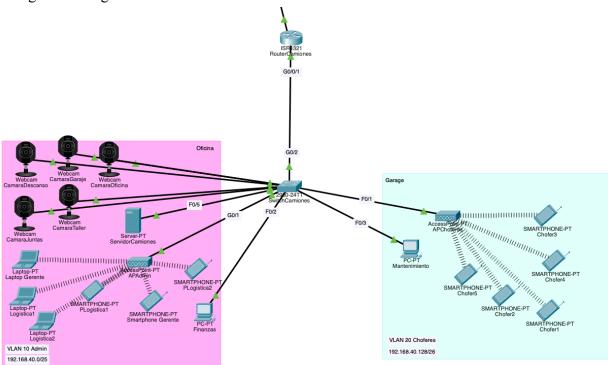
| Segmento                                                                        | Switch             | Num.<br>Hosts<br>requeri<br>dos | Prefijo de red        | Máscara en<br>notación punto<br>decimal | Bloque<br>asignado de<br>direcciones IP | Primera<br>dirección IP<br>válida del<br>bloque | Última<br>dirección IP<br>válida del<br>bloque |
|---------------------------------------------------------------------------------|--------------------|---------------------------------|-----------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------------|------------------------------------------------|
| Routers (sin<br>VLAN)                                                           | (No<br>aplica)     | 2                               | 192.168.0.0/30        | 255.255.255.252                         | 192.168.0.0-19<br>2.168.0.3             | 192.168.0.1                                     | 192.168.0.2                                    |
|                                                                                 |                    |                                 |                       |                                         |                                         |                                                 |                                                |
| Vlan 10 -<br>Tractos -<br>Admin                                                 | SwitchCa<br>miones | 12                              | 192.168.40.0/25       | 255.255.255.128                         | 192.168.40.0 -<br>192.168.40.127        | 192.168.40.1                                    | 192.168.40.126                                 |
| Vlan 20 -<br>Tractos -<br>Choferes                                              | SwitchCa<br>miones | 9                               | 192.168.40.128/<br>26 | 255.255.255.192                         | 192.168.40.128<br>-<br>192.168.40.191   | 192.168.40.128                                  | 192.168.40.190                                 |
| Vlan 30 -<br>Supermerca<br>do - Área<br>de<br>productos y<br>departame<br>ntos  | SwitchSu<br>per1   | 13                              | 192.168.20.0/27       | 255.255.255.224                         | 192.168.20.0 -<br>192.168.20.31         | 192.168.20.1                                    | 192.168.20.30                                  |
| Vlan 32 -<br>Supermerca<br>do - Área<br>de cajeros y<br>escritorio<br>principal | SwitchSu<br>per1   | 12                              | 192.168.20.32/2<br>7  | 255.255.255.224                         | 192.168.20.32 -<br>192.168.20.63        | 192.168.20.33                                   | 192.168.20.62                                  |
| Vlan 34 -<br>Supermerca<br>do -<br>Almacén;<br>Switch<br>almacén                | SwitchAl<br>macen  | 8                               | 192.168.20.64/2<br>8  | 255.255.255.240                         | 192.168.20.64 -<br>192.168.20.79        | 192.168.20.65                                   | 192.168.20.78                                  |

| Vlan 36 -<br>Supermerca<br>do -<br>Oficinas                      | SwitchSu<br>per1  | 7 | 192.168.20.80/2<br>8 | 255.255.255.240 | 192.168.20.80 -<br>192.168.20.95  | 192.168.20.81 | 192.168.20.94  |
|------------------------------------------------------------------|-------------------|---|----------------------|-----------------|-----------------------------------|---------------|----------------|
| Vlan 38 -<br>Supermerca<br>do -<br>Cámaras;<br>Switch<br>almacén | SwitchAl<br>macen | 9 | 192.168.20.80/2<br>8 | 255.255.255.240 | 192.168.20.96 -<br>192.168.20.111 | 192.168.20.97 | 192.168.20.110 |

# Configuración lógica super



# Configuración lógica tractos



# **Tractos**

#### **RouterCamiones**

Router>ena

Router#config t

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

Router(config)#hostname RouterCamiones

RouterCamiones(config)#enable secret class

RouterCamiones(config)#no ip domain-lo

RouterCamiones(config)#no ip domain-lookup

RouterCamiones(config)#service pass

RouterCamiones(config)#service password-encryption

RouterCamiones(config)#line con 0

RouterCamiones(config-line)#pass

RouterCamiones(config-line)#password cisco

RouterCamiones(config-line)#login

RouterCamiones(config-line)#logging sync

RouterCamiones(config-line)#exit

RouterCamiones(config)#line vty 0 4

RouterCamiones(config-line)#password cisco

RouterCamiones(config-line)#login

RouterCamiones(config-line)#logging sync

RouterCamiones(config-line)#exit

RouterCamiones(config)#banner motd #Favor de no entrar sin autorizacion#

RouterCamiones(config)#do wr

Building configuration...

[OK]

RouterCamiones(config)#int g0/0/1.10

RouterCamiones(config-subif)#desc?

LINE Up to 240 characters describing this interface

RouterCamiones(config-subif)#desc Vlan para admins

RouterCamiones(config-subif)#encap dot1q 10

RouterCamiones(config-subif)#ip add 192.168.40.1 255.255.255.128

RouterCamiones(config-subif)#exit

RouterCamiones(config)#do wr

Building configuration...

[OK]

RouterCamiones(config)#interface gigabitethernet 0/0/1.20

RouterCamiones(config-subif)#encapsulation dot1q 20

RouterCamiones(config-subif)#ip address 192.168.40.129 255.255.255.192

RouterCamiones(config-subif)#exit

RouterCamiones(config)#interface gigabitethernet 0/0/1

RouterCamiones(config-if)#no shut

RouterCamiones(config)#ip dhcp pool office

RouterCamiones(dhcp-config)#networ

RouterCamiones(dhcp-config)#network 192.168.40.0 255.255.255.128

RouterCamiones(dhcp-config)#default-r

RouterCamiones(dhcp-config)#default-router 192.168.40.1

RouterCamiones(dhcp-config)#dns

RouterCamiones(dhcp-config)#dns-server 8.8.8.8

RouterCamiones(dhcp-config)#exit

RouterCamiones(config)#ip dhcp pool camiones

RouterCamiones(dhcp-config)#net 192.168.40.128 255.255.255.192

RouterCamiones(dhcp-config)#def

RouterCamiones(dhcp-config)#default-router 192.168.40.129

RouterCamiones(dhcp-config)#dns

RouterCamiones(dhcp-config)#dns-server 8.8.8.8

RouterCamiones(dhcp-config)#exit

RouterCamiones(config)#ip route 192.168.20.0 255.255.255.0 192.168.0.1

RouterCamiones(config)#show ip route

% Invalid input detected at '^' marker.

RouterCamiones(config)#exit

RouterCamiones#

%SYS-5-CONFIG I: Configured from console by console

RouterCamiones#show ip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

192.168.0.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.0.0/30 is directly connected, GigabitEthernet0/0/0

L 192.168.0.2/32 is directly connected, GigabitEthernet0/0/0

S 192.168.20.0/24 [1/0] via 192.168.0.1

192.168.40.0/24 is variably subnetted, 4 subnets, 3 masks

C 192.168.40.0/25 is directly connected, GigabitEthernet0/0/1.10

L 192.168.40.1/32 is directly connected, GigabitEthernet0/0/1.10

C 192.168.40.128/26 is directly connected, GigabitEthernet0/0/1.20

L 192.168.40.129/32 is directly connected, GigabitEthernet0/0/1.20

RouterCamiones#RouterCamiones#

RouterCamiones#configure terminal

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

RouterCamiones(config)#interface GigabitEthernet0/0/0

RouterCamiones(config-if)#exit

RouterCamiones(config)#exit

RouterCamiones#

%SYS-5-CONFIG\_I: Configured from console by console

RouterCamiones#do wr

 $\wedge$ 

% Invalid input detected at '^' marker.

RouterCamiones#wr

Building configuration...

[OK]

RouterCamiones#ping 192.168.0.1

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.0.1, timeout is 2 seconds:

.!!!!

Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms

RouterCamiones#

## **SwitchCamiones**

## Configuración

#### Configuración base y de seguridad

Switch>ena

Switch#config t

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

Switch(config)#hostname SwitchCamiones

SwitchCamiones(config)#no ip domain

SwitchCamiones(config)#no ip domainl

SwitchCamiones(config)#no ip domain-l

SwitchCamiones(config)#no ip domain-lookup

SwitchCamiones(config)#enable?

password Assign the privileged level password

secret Assign the privileged level secret

SwitchCamiones(config)#enable secret class

SwitchCamiones(config)#s?

sdm service snmp-server spanning-tree

SwitchCamiones(config)#service?

dhcp Enable DHCP server and relay agent

password-encryption Encrypt system passwords

timestamps Timestamp debug/log messages

SwitchCamiones(config)#service pa

SwitchCamiones(config)#service password-encryption

SwitchCamiones(config)#line con 0

SwitchCamiones(config-line)#pass

SwitchCamiones(config-line)#password cisco

SwitchCamiones(config-line)#login

SwitchCamiones(config-line)#logging sync

SwitchCamiones(config-line)#exit

SwitchCamiones(config)#line vty 0 15

SwitchCamiones(config-line)#pass

SwitchCamiones(config-line)#password cisco

SwitchCamiones(config-line)#login

SwitchCamiones(config-line)#logg

SwitchCamiones(config-line)#logging sync

SwitchCamiones(config-line)#exit

#### Configuración VLANs

SwitchCamiones(config)#vlan 10

SwitchCamiones(config-vlan)#name Admin

SwitchCamiones(config-vlan)#exit

SwitchCamiones(config)#vlan 20

SwitchCamiones(config-vlan)#name Choferes

SwitchCamiones(config-vlan)#exit

SwitchCamiones(config)#int g0/1

SwitchCamiones(config-if)#switch mode access

SwitchCamiones(config-if)#switchport access vlan 10

SwitchCamiones(config-if)#do wr

SwitchCamiones(config)#int f0/1

SwitchCamiones(config-if)#switch mode access

SwitchCamiones(config-if)#switchport access vlan 20

SwitchCamiones(config-if)#do wr

SwitchCamiones(config)#int f0/2

SwitchCamiones(config-if)#switch mode access

SwitchCamiones(config-if)#switchport access vlan 10

SwitchCamiones(config-if)#exit

SwitchCamiones(config)#int f0/3

SwitchCamiones(config-if)#switch mode access

SwitchCamiones(config-if)#switchport access vlan 20

SwitchCamiones(config-if)#do show vl br

SwitchCamiones(config)#int g0/2

SwitchCamiones(config-if)#switchport mode trunk

SwitchCamiones(config-if)#switchport trunk allowed vlan 10,20

SwitchCamiones(config-if)#exit

#### - Agregando cámaras

SwitchCamiones#config t

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

SwitchCamiones(config)#int range fastethernet 0/6-10

SwitchCamiones(config-if-range)#switchport mode access

SwitchCamiones(config-if-range)#switchport access vlan 10

#### - Agregando servidor de videos

SwitchCamiones>ena

Password:

SwitchCamiones#int fastethernet 0/5

% Invalid input detected at '^' marker.

SwitchCamiones#config t

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

SwitchCamiones(config)#int f0/5

SwitchCamiones(config-if)#switchport mode access

SwitchCamiones(config-if)#switchport access vlan10

% Invalid input detected at '^' marker.

SwitchCamiones(config-if)#switchport access vlan 10

SwitchCamiones(config-if)#exit SwitchCamiones(config)#exit SwitchCamiones#

%SYS-5-CONFIG\_I: Configured from console by console SwitchCamiones#wr
Building configuration...

[OK]

SwitchCamiones#

# Supermercado

# Configuración Router

Router>ena

Router#config t

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

Router(config)#no ip domain-lo

Router(config)#no ip domain-lookup

Router(config)#service pass

Router(config)#service password-encryption

Router(config)#banner motd #Favor de no entrar al router del switch sin autorizacion#

Router(config)#enable secret class

Router(config)#line con 0

Router(config-line)#password cisco

Router(config-line)#login

Router(config-line)#logging sync

Router(config-line)#exit

Router(config)#line vty 0 4

Router(config-line)#password cisco

Router(config-line)#login

Router(config-line)#logging sync

Router(config-line)#exit

Router(config)#do wr

Building configuration...

[OK]

Router(config)#int g0/0/1.34

Router(config-subif)#encap dot1q 34

Router(config-subif)#ip add 192.168.65 255.255.255.240

Λ

% Invalid input detected at '^' marker.

Router(config-subif)#ip add 192.168.20.65 255.255.255.240

Router(config-subif)#exit

Router(config)#int g0/0/1.30

Router(config-subif)#encap dot1q 30

Router(config-subif)#ip add 192.168.20.0 255.255.255.224

Bad mask /27 for address 192.168.20.0

Router(config-subif)#ip add 192.168.20.1 255.255.255.224

Router(config-subif)#exit

Router(config)#int g0/0/1.32

Router(config-subif)#encap dot1q 32

Router(config-subif)#ip add 192.168.20.33 255.255.255.224

Router(config-subif)#exit

Router(config)#int g0/0/1.36

Router(config-subif)#encap dot1q 36

Router(config-subif)#ip add 192.168.20.81 255.255.255.240

Router(config-subif)#exit

Router(config)#int g0/0/0

Router(config-if)#no shut

Router(config)#int g0/0/1

Router(config-if)#no shut

Router(config-if)#exit

Router(config)#hostname RouterSuper

RouterSuper(config)#ip dhcp pool departamentos

RouterSuper(dhcp-config)#network 192.168.20.0 255.255.255.224

RouterSuper(dhcp-config)#default

RouterSuper(dhcp-config)#default-router 192.168.20.1

RouterSuper(dhcp-config)#dhcp

RouterSuper(dhcp-config)#dns

RouterSuper(dhcp-config)#dns-server 8.8.8.8

RouterSuper(dhcp-config)#exit

RouterSuper(config)#ip dhcp pool cajas

RouterSuper(dhcp-config)#network 192.168.20.32 255.255.255.224

RouterSuper(dhcp-config)#default-router 192.168.20.33

RouterSuper(dhcp-config)#dns-server 8.8.8.8

RouterSuper(dhcp-config)#exit

RouterSuper(config)#ip dhcp pool almacen

RouterSuper(dhcp-config)#network 192.168.20.64 255.255.255.240

RouterSuper(dhcp-config)#default-router 192.168.20.65

RouterSuper(dhcp-config)#dns-server 8.8.8.8

RouterSuper(dhcp-config)#exit

RouterSuper(config)#ip dhcp pool oficinas

RouterSuper(dhcp-config)#network 192.168.20.80 255.255.255.240

RouterSuper(dhcp-config)#

RouterSuper(dhcp-config)#default-router 192.168.20.81

RouterSuper(dhcp-config)#dns-server 8.8.8.8

RouterSuper(dhcp-config)#exit

RouterSuper(config)#int g0/0/1.38

RouterSuper(config-subif)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0/1.38, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1.38, changed state to up

RouterSuper(config-subif)#encap dot1q 38

RouterSuper(config-subif)#ip add 192.168.20.97 255.255.255.240

RouterSuper(config-subif)#exit

RouterSuper(config)#ip dhcp pool camaras

RouterSuper(dhcp-config)#network 192.168.20.96 255.255.255.240

RouterSuper(dhcp-config)#default router 192.168.20.97

Λ

% Invalid input detected at '^' marker.

RouterSuper(dhcp-config)#default?

A.B.C.D Router's IP address

RouterSuper(dhcp-config)#default router?

% Unrecognized command

RouterSuper(dhcp-config)#default-router 192.168.20.97

RouterSuper(dhcp-config)#dns-server 8.8.8.8

RouterSuper(dhcp-config)#exit

RouterSuper(config)#wr

^

% Invalid input detected at '^' marker.

RouterSuper(config)#do wr

Building configuration...

[OK]

RouterSuper(config)#

RouterSuper(config)#ip dhcp excluded-address 192.168.20.1

RouterSuper(config)#ip dhcp excluded-address 192.168.20.33

RouterSuper(config)#ip dhcp excluded-address 192.168.20.65

RouterSuper(config)#ip dhcp excluded-address 192.168.20.81

RouterSuper(config)#ip dhcp excluded-address 192.168.20.97

RouterSuper(config)#interface GigabitEthernet0/0/0

RouterSuper(config-if)#ip address 192.168.0.1 255.255.255.252

RouterSuper(config-if)#exit

RouterSuper(config)#exit

RouterSuper#

%SYS-5-CONFIG I: Configured from console by console

RouterSuper#do wr

^

% Invalid input detected at '^' marker.

RouterSuper#wr

Building configuration...

[OK]

RouterSuper#

RouterSuper(config)#interface GigabitEthernet0/0/0

RouterSuper(config-if)#ip route 192.168.40.0 255.255.255.0 192.168.0.2

RouterSuper(config)#exit

RouterSuper#

%SYS-5-CONFIG I: Configured from console by console

RouterSuper#show ip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

```
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
   N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
   E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
   i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
   * - candidate default, U - per-user static route, o - ODR
   P - periodic downloaded static route
Gateway of last resort is not set
  192.168.0.0/24 is variably subnetted, 2 subnets, 2 masks
C
     192.168.0.0/30 is directly connected, GigabitEthernet0/0/0
L
     192.168.0.1/32 is directly connected, GigabitEthernet0/0/0
  192.168.20.0/24 is variably subnetted, 10 subnets, 3 masks
C
     192.168.20.0/27 is directly connected, GigabitEthernet0/0/1.30
L
     192.168.20.1/32 is directly connected, GigabitEthernet0/0/1.30
C
     192.168.20.32/27 is directly connected, GigabitEthernet0/0/1.32
L
     192.168.20.33/32 is directly connected, GigabitEthernet0/0/1.32
C
     192.168.20.64/28 is directly connected, GigabitEthernet0/0/1.34
L
     192.168.20.65/32 is directly connected, GigabitEthernet0/0/1.34
C
     192.168.20.80/28 is directly connected, GigabitEthernet0/0/1.36
L
     192.168.20.81/32 is directly connected, GigabitEthernet0/0/1.36
     192.168.20.96/28 is directly connected, GigabitEthernet0/0/1.38
C
L
     192.168.20.97/32 is directly connected, GigabitEthernet0/0/1.38
S
   192.168.40.0/24 [1/0] via 192.168.0.2
RouterSuper#
RouterSuper#
RouterSuper#
RouterSuper#
RouterSuper#
RouterSuper#Enter configuration commands, one per line. End with CNTL/Z.
RouterSuper(config)#
RouterSuper(config)#interface GigabitEthernet0/0/0
RouterSuper(config-if)#Enter configuration commands, one per line. End with CNTL/Z.
RouterSuper(config)#
RouterSuper(config)#interface GigabitEthernet0/0/0
RouterSuper(config-if)#exit
RouterSuper(config)#exit
RouterSuper#
%SYS-5-CONFIG I: Configured from console by console
RouterSuper#wr
Building configuration...
[OK]
RouterSuper#ping 192.168.0.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.0.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/2 ms
RouterSuper#
```

## Configuración SwitchAlmacen

Originalmente, se había planeado que las cámaras se iban a conectar a las VLANs de su área correspondiente en el supermercado. Sin embargo, estas sólo cupieron en el del almacén, por lo que se va a hacer un VLAN nueva cuyo único propósito es administrar las cámaras y recaudar los videos en el servidor ServerVideos.

### Configuración

#### — Configuración inicial

Switch>ena

Switch#config t

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

Switch(config)#hostname SwitchAlmacen

SwitchAlmacen(config)#banner motd #Favor de no entrar al switch de almacen sin

autorizacion#

SwitchAlmacen(config)#no ip

SwitchAlmacen(config)#no ip

SwitchAlmacen(config)#no ip?

access-list Named access-list

arp IP ARP global configuration

default-gateway Specify default gateway (if not routing IP)

dhcp Configure DHCP server and relay parameters

domain IP DNS Resolver

domain-lookup Enable IP Domain Name System hostname translation

domain-name Define the default domain name

ftp FTP configuration commands

hosts Add an entry to the ip hostname table

name-server Specify address of name server to use

sep Sep commands

ssh Configure ssh options

SwitchAlmacen(config)#no ip domain-l

SwitchAlmacen(config)#no ip domain-lookup

SwitchAlmacen(config)#service?

dhcp Enable DHCP server and relay agent

password-encryption Encrypt system passwords

timestamps Timestamp debug/log messages

SwitchAlmacen(config)#service pa

SwitchAlmacen(config)#service password-encryption

SwitchAlmacen(config)#enable secret class

SwitchAlmacen(config)#line con 0

SwitchAlmacen(config-line)#password cisco

SwitchAlmacen(config-line)#login

SwitchAlmacen(config-line)#logging sync

SwitchAlmacen(config-line)#exit

SwitchAlmacen(config)#line vty 0 15

SwitchAlmacen(config-line)#password cisco

SwitchAlmacen(config-line)#login

SwitchAlmacen(config-line)#logging sync

SwitchAlmacen(config-line)#exit

SwitchAlmacen(config)#do wr

Building configuration...

[OK]

#### — Configuración de vlans

SwitchAlmacen(config)#vlan 34

SwitchAlmacen(config-vlan)#name Almacen

SwitchAlmacen(config-vlan)#exit

SwitchAlmacen(config)#int g0/2

SwitchAlmacen(config-if)#switch mode access

SwitchAlmacen(config-if)#switchport access vlan 34

SwitchAlmacen(config-if)#exit

SwitchAlmacen(config)#int g0/1

SwitchAlmacen(config-if)#switchport mode trunk

SwitchAlmacen(config-if)#switchport trunk allowed vlan 34

SwitchAlmacen(config-if)#exit

#### Agregando espacio para las cámaras

SwitchAlmacen(config)#vlan 38

SwitchAlmacen(config-vlan)#name Camaras

SwitchAlmacen(config-vlan)#exit

SwitchAlmacen(config)#

SwitchAlmacen(config)#int range f0/1-9

SwitchAlmacen(config-if-range)#switchport mode access

SwitchAlmacen(config-if-range)#switchport access vlan 38

SwitchAlmacen(config-if-range)#exit

SwitchAlmacen(config)#exit

#### — Agregando el vlan de camaras

SwitchAlmacen(config)#interface gigabitethernet 0/1

SwitchAlmacen(config-if)#switchport trunk allowed vlan 34.38

SwitchAlmacen(config-if)#exit

SwitchAlmacen(config)#exit

#### — Agregando el servidor

SwitchAlmacen(config)#int f0/10

SwitchAlmacen(config-if)#switchport mode access

SwitchAlmacen(config-if)#switchport access vlan 38

SwitchAlmacen(config-if)#end SwitchAlmacen#

## Configuración SwitchSuper1

Switch>ena Switch#config t Enter configuration commands, one per line. End with CNTL/Z. Switch(config)#hostname SwitchSuper SwitchSuper(config)#banner motd #Favor de no entrar al switch del super sin autorizacion# SwitchSuper(config)#no ip domain-l SwitchSuper(config)#no ip domain-lookup SwitchSuper(config)#service pa SwitchSuper(config)#service password-encryption SwitchSuper(config)#line con 0 SwitchSuper(config-line)#password cisco SwitchSuper(config-line)#login SwitchSuper(config-line)#logging sync SwitchSuper(config-line)#exit SwitchSuper(config)#line vty 0 15 SwitchSuper(config-line)#password cisco SwitchSuper(config-line)#login SwitchSuper(config-line)#logging sync SwitchSuper(config-line)#exit SwitchSuper(config)#do wr Building configuration... [OK] SwitchSuper(config)#vlan 30 SwitchSuper(config-vlan)#name Departamento SwitchSuper(config-vlan)#exit SwitchSuper(config)#vlan 32 SwitchSuper(config-vlan)#name Cajas SwitchSuper(config-vlan)#exit SwitchSuper(config)#vlan 36 SwitchSuper(config-vlan)#Oficinas % Invalid input detected at '^' marker. SwitchSuper(config-vlan)#name Oficinas SwitchSuper(config-vlan)#exit SwitchSuper(config)#int range f0/3 f0/7 % Invalid input detected at '^' marker. SwitchSuper(config)#int range f0/3-7 SwitchSuper(config-if-range)#switch mode access

SwitchSuper(config-if-range)#switchport access vlan 32

SwitchSuper(config-if-range)#exit

SwitchSuper(config)#int range f0/13-20

SwitchSuper(config-if-range)#sw mode access

SwitchSuper(config-if-range)#sw

SwitchSuper(config-if-range)#switchport access vlan 30

SwitchSuper(config-if-range)#exit

SwitchSuper(config)#int range f0/8-12

SwitchSuper(config-if-range)#sw mode access

SwitchSuper(config-if-range)#switchport access vlan 36

SwitchSuper(config-if-range)#exit

SwitchSuper(config)#int g0/1

SwitchSuper(config-if)#sw mode access

SwitchSuper(config-if)#switchport access vlan 36

SwitchSuper(config-if)#exit

SwitchSuper(config)#int range f0/1-2

SwitchSuper(config-if-range)#sw mode access

SwitchSuper(config-if-range)#switchport access vlan 36

SwitchSuper(config-if-range)#exit

SwitchSuper(config)#enable secret class

SwitchSuper(config)#int g0/2

SwitchSuper(config-if)#swicht mode trunk

% Invalid input detected at '^' marker.

SwitchSuper(config-if)#sw

SwitchSuper(config-if)#switch mode trunk

SwitchSuper(config-if)#swi

SwitchSuper(config-if)#switchport trunk allowed vlan 30, 32, 36

% Invalid input detected at '^' marker.

SwitchSuper(config-if)#switchport trunk allowed vlan 30,32,36

SwitchSuper(config-if)#exit

SwitchSuper#config t

SwitchSuper(config)#int g0/2

SwitchSuper(config-if)#switchport trunk allowed vlan 30,32,34,36,38

SwitchSuper(config-if)#exit

SwitchSuper(config)#exit

SwitchSuper#config t

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

SwitchSuper(config)#int f0/24

SwitchSuper(config-if)#switchport mode trunk

SwitchSuper#config t

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

SwitchSuper(config)#interface gigabitethernet 0/2

SwitchSuper(config-if)#switchport trunk allowed vlan 30,32,34,36,38

SwitchSuper(config-if)#exit

SwitchSuper(config)#exit

SwitchSuper#

%SYS-5-CONFIG\_I: Configured from console by console

SwitchSuper#wr

Building configuration...

[OK]

SwitchSuper#

SwitchSuper#conf t

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

SwitchSuper(config)#vlan 38

SwitchSuper(config-vlan)#name cameras

SwitchSuper(config-vlan)#

SwitchSuper(config-vlan)#

SwitchSuper(config-vlan)#

SwitchSuper(config-vlan)#

SwitchSuper(config-vlan)#end

SwitchSuper#config t

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

SwitchSuper(config)#vlan 34

SwitchSuper(config-vlan)#name Almacen

SwitchSuper(config-vlan)#exit

SwitchSuper(config)#exit

SwitchSuper#

%SYS-5-CONFIG I: Configured from console by console

SwitchSuper#do we

% Invalid input detected at '^' marker.

SwitchSuper#wr

Building configuration...

[OK]

SwitchSuper#

SwitchSuper#config t

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

SwitchSuper(config)#interface fastethernet 0/10

SwitchSuper(config-if)#switchport access vlan 30

SwitchSuper(config-if)#exit

SwitchSuper(config)#do wr Building configuration...

[OK]

SwitchSuper(config)#int Fa0/17

SwitchSuper(config-if)#switchport access vlan 30

SwitchSuper(config-if)#exit SwitchSuper(config)#do wr

Building configuration...

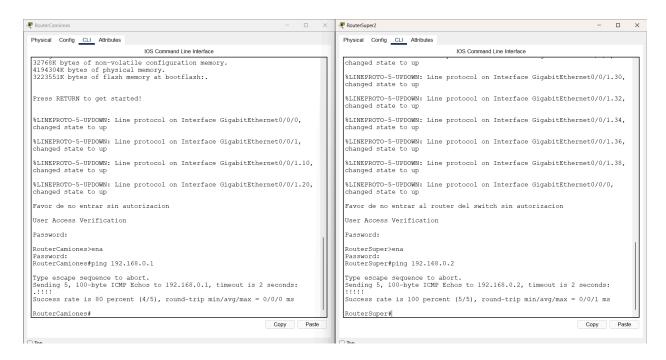
[OK]

SwitchSuper(config)#

# Pruebas de conectividad

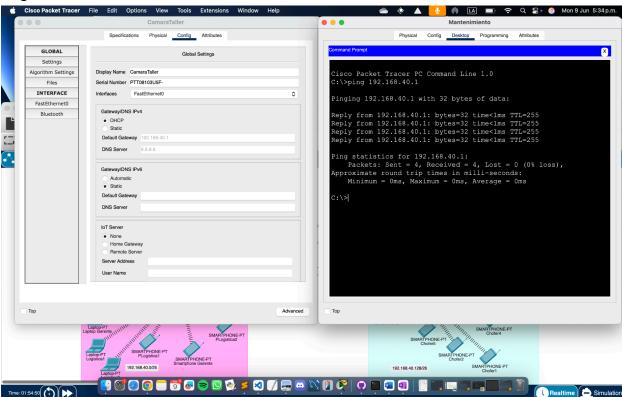
#### Router a router

#### Pings mutuos entre ambos routers

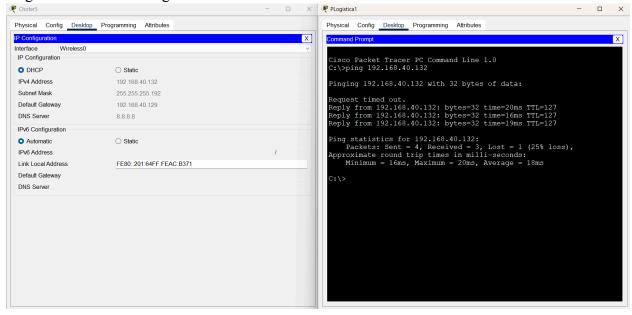


### Misma LAN tractos

Ping de PC mantenimiento a cámara del taller

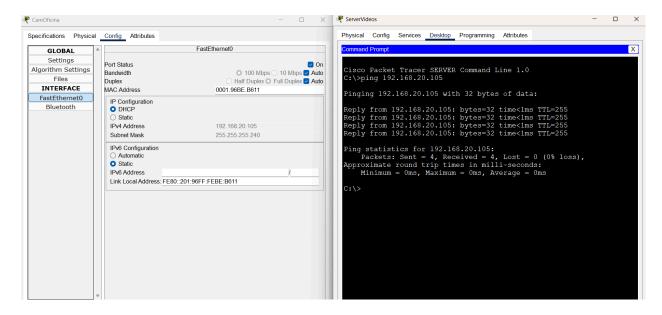


Ping desde celular de Logística 1 a celular de Chofer 5

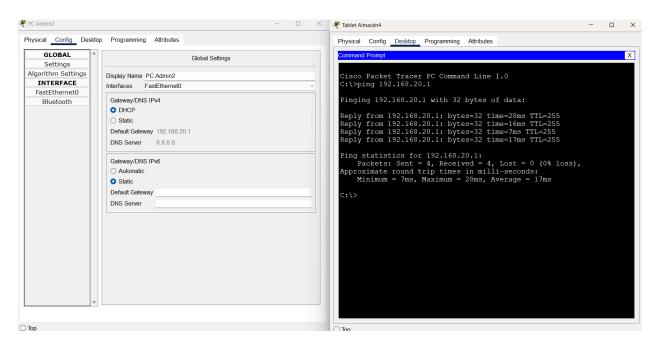


## Misma LAN super

Ping desde cámara de seguridad CamOficina hacía ServerVideos

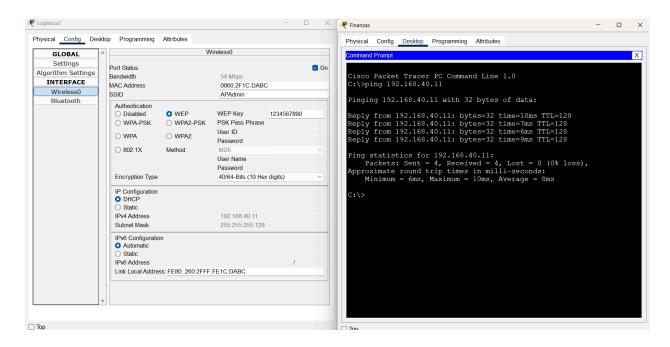


Ping desde tablet de Almacén4 hacia PC de Admin2

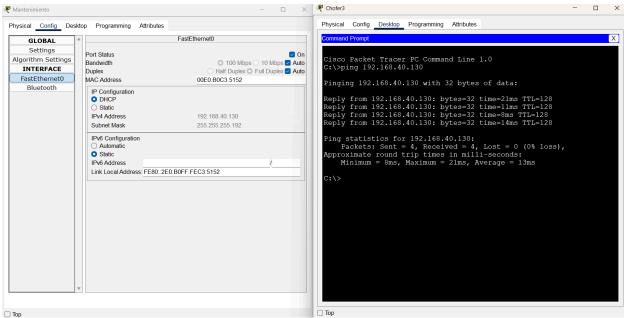


## Misma VLAN tractos

Ping desde PC de Finanzas hacia Laptop de Logística 2

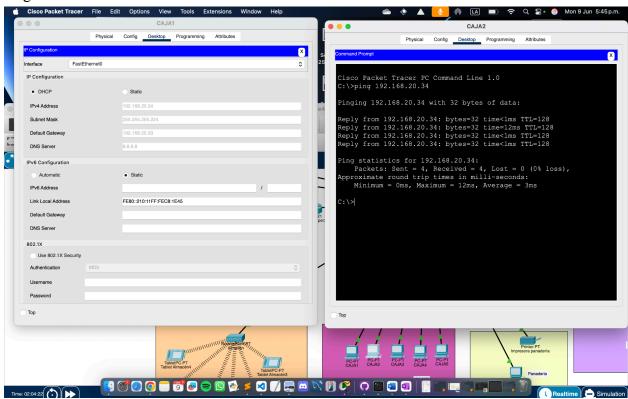


### Ping desde celular de Chofer3 hacia PC de Mantenimiento

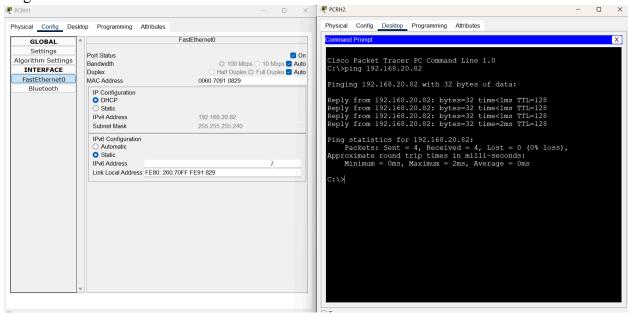


## Misma VLAN super

Ping de PC CAJA1 a CAJA2

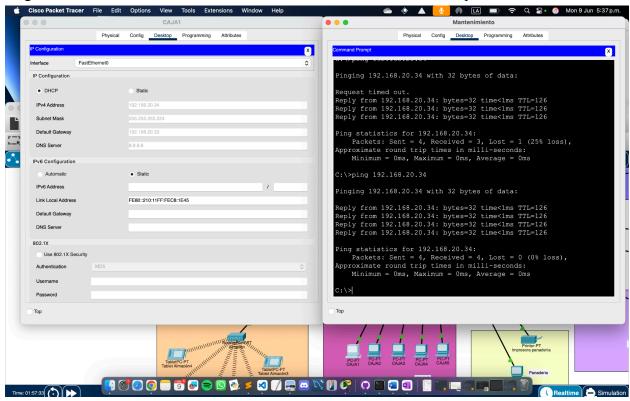


Ping de PC de RH1 a RH2



## **Redes diferentes**

Ping desde la PC de mantenimiento de Tractos hacia PC CAJA1 del super



Ping desde PC GERENTE del supermercado hacia Laptop Gerente Tractos

