



Interconexión de dispositivos

RETO F05 CONFIGURACIÓN DE RED

Profesor:

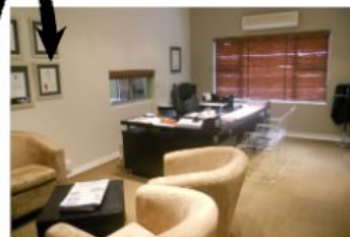
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Integrantes:

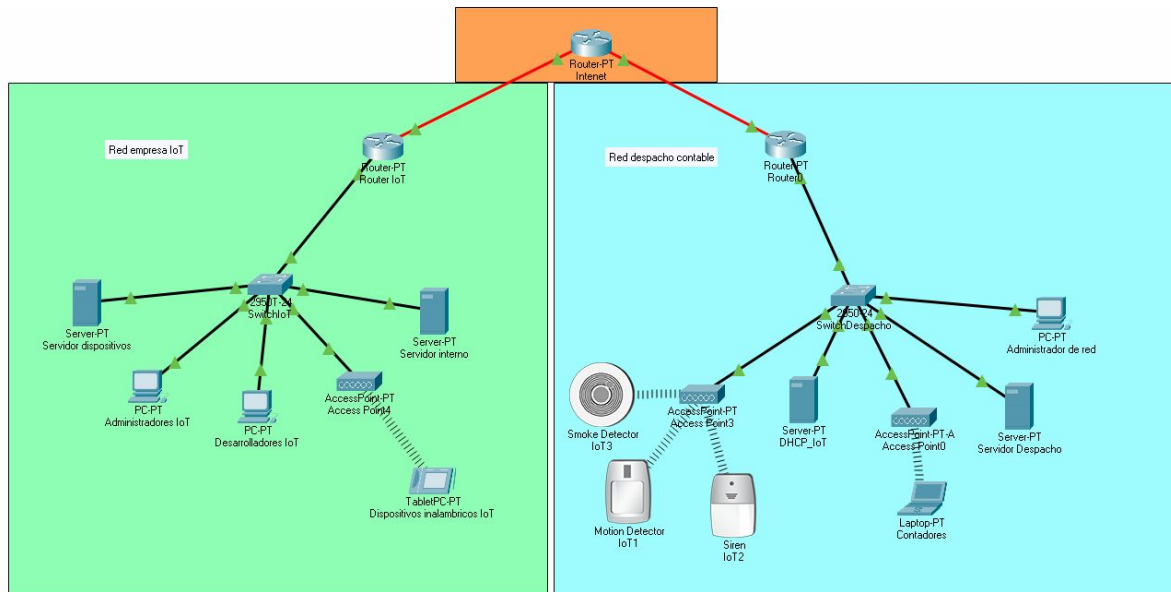
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Diseño Lógico de la RED



Diseño lógico de LAN 1 (Despacho Contable)

Red	Nombre	Direccion	IP Inicial	IP Final	Broadcast
1	Red Interna	192.168.40.0/25	192.168.40.1	192.168.40.126	192.168.40.127
2	IoT	192.168.40.128/27	192.168.40.129	192.168.40.158	192.168.40.159

Diseño lógico de LAN 2

Red	Nombre	Direccion	IP Inicial	IP Final	Broadcast
1	IoT	192.60.40.0/25	192.60.40.1	192.40.40.126	192.60.40.127
2	Red Interna	192.60.40.128/25	192.60.40.128	192.60.40.254	192.60.40.255

2. Con base en el Diseño Lógico, utiliza las direcciones IP correspondientes y realiza la configuración de los equipos de interconexión (Switches, Routers, Access Point, etc.) de acuerdo a tu Diseño Físico, en el simulador Packet Tracer.

La configuración de cada equipo debe incluir lo siguiente :

A) Para cada Router:

Usuario y contraseña para acceso a Router

Despacho:

Contraseña de enable:

Despacho.131517

SSH:

admin

Despacho.131517

IoT:

Contraseña de enable:

iot123

SSH:

admin-iot

iot123

B) Usuario y contraseña para acceso a Switch

Despacho:

Contraseña de enable:

Despacho.131517

SSH:

admin

Despacho.131517

IoT:

Contraseña de enable:

iot123

SSH:

admin-iot

iot123

C) Usuario y contraseña para acceder a Access Point:

a) Red IoT:

SSID: Red-Interna-IoT







Contraseña: 1215832003

b) Red Despacho:

SSID: Red Interna

Contraseña: 13151719

3. Incluye evidencias de las pruebas que consideres necesarias en Capa Red (ping, traceroute, etc) y Capa Aplicación (https, ssh, dhcp, dns, etc) para corroborar que la comunicación es exitosa.

PDU List Window										
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	Administrat	192.60.40.2	TCP		1.000	N	0	(edit)	
	Successful	IoT3	Servidor dispositivos	ICMP		0.000	N	1	(edit)	
	Successful	IoT1	Servidor dispositivos	ICMP		0.000	N	2	(edit)	

Physical Config Desktop Programming Attributes

Web Browser ×

< > URL http://192.60.40.2 Go Stop

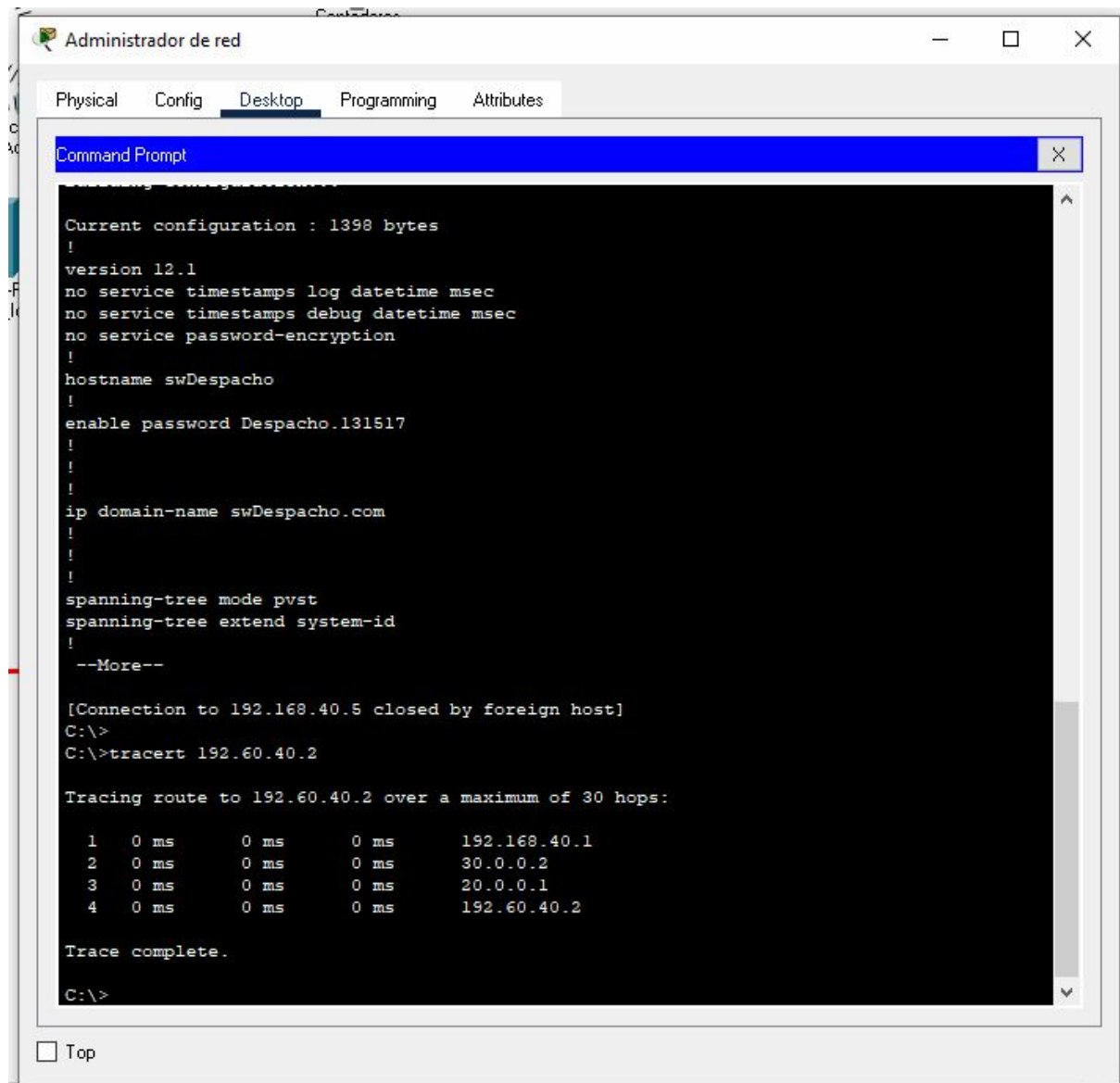
Cisco Packet Tracer

Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.

Quick Links:

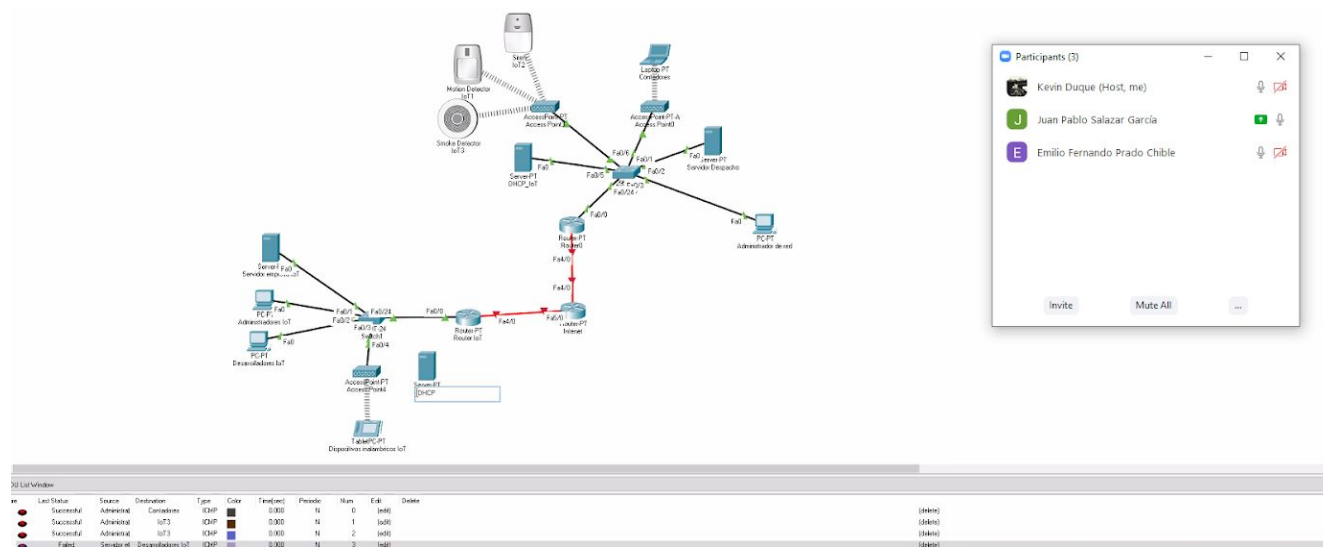
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4. Genera un archivo PDF que incluya una portada, las evidencias de comunicación exitosa y todas las configuraciones de los equipos involucrados.

Para este avance, no olvides incluir evidencias de trabajo colaborativo como bitácoras, minutas, imágenes, etc.



5. Prepara y entrega (los) archivo(s) .PKT de la configuración de tu infraestructura y el .PDF generado en el paso anterior.

Recuerda documentar (= etiquetar) en el Packet Tracer los segmentos de red, direcciones IPs , contraseñas de acceso, etc.

Si tu profesor(a) no tiene acceso no podrá realizar la retroalimentación ni asignarte tu Calificación.

Configuración (show run):

Router Despacho:

Despacho#sh run

Building configuration...

Current configuration : 1308 bytes

!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Despacho

!

!

!

enable password Despacho.131517

!

!

ip dhcp excluded-address 192.168.40.0 192.168.40.30

ip dhcp excluded-address 192.168.40.128 192.168.40.35

!

ip dhcp pool internaPool

network 192.168.40.0 255.255.255.128

!

!

!

ip cef

no ipv6 cef

!

!

!

username admin password 0 Despacho.131517

!

!

!

!

!

!

!

!

ip ssh time-out 10

ip domain-name routersshdespacho.com

!

!

!


```
!  
!  
!  
!  
!  
interface FastEthernet0/0  
no ip address  
duplex auto  
speed auto  
!  
interface FastEthernet0/0.10  
encapsulation dot1Q 10  
ip address 192.168.40.1 255.255.255.128  
!  
interface FastEthernet0/0.11  
encapsulation dot1Q 11  
ip address 192.168.40.129 255.255.255.224  
!  
interface FastEthernet1/0  
no ip address  
duplex auto  
speed auto  
!  
interface Serial2/0  
no ip address  
shutdown  
!  
interface Serial3/0  
no ip address  
shutdown  
!  
interface FastEthernet4/0  
ip address 30.0.0.1 255.0.0.0  
!  
interface FastEthernet5/0  
no ip address  
shutdown  
!  
router rip  
network 20.0.0.0  
network 30.0.0.0  
network 192.60.40.0  
network 192.168.40.0  
!  
ip classless  
!  
ip flow-export version 9  
!
```

```
!  
!  
!  
!  
!  
!  
!  
line con 0  
!  
line aux 0  
!  
line vty 0 4  
exec-timeout 1 0  
login local  
transport input ssh  
!  
!  
!  
end
```

Router empresa IoT:

```
R-IoT#show run  
Building configuration...
```

```
Current configuration : 1116 bytes
```

```
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname R-IoT  
!  
!  
!  
enable password iot123  
!  
!  
!  
!  
!  
!  
ip cef  
no ipv6 cef  
!  
!
```

```
!  
username admin-iot password 0 iot123  
!  
!  
!  
!  
!  
!  
!  
!  
ip ssh time-out 10  
ip domain-name iot.com  
!  
!  
!  
!  
!  
!  
!  
!  
interface FastEthernet0/0  
no ip address  
duplex auto  
speed auto  
!  
interface FastEthernet0/0.10  
encapsulation dot1Q 10  
ip address 192.60.40.1 255.255.255.128  
!  
interface FastEthernet0/0.11  
encapsulation dot1Q 11  
ip address 192.60.40.129 255.255.255.128  
!  
interface FastEthernet1/0  
no ip address  
duplex auto  
speed auto  
shutdown  
!  
interface Serial2/0  
no ip address  
shutdown  
!  
interface Serial3/0  
no ip address  
shutdown  
!  
interface FastEthernet4/0
```

```
ip address 20.0.0.1 255.0.0.0
```

```
!
```

```
interface FastEthernet5/0
```

```
no ip address
```

```
shutdown
```

```
!
```

```
router rip
```

```
network 20.0.0.0
```

```
network 30.0.0.0
```

```
network 192.60.40.0
```

```
network 192.168.40.0
```

```
!
```

```
ip classless
```

```
!
```

```
ip flow-export version 9
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!
```

```
!!
```

```
line con 0
```

```
!
```

```
line aux 0
```

```
!
```

```
line vty 0 4
```

```
exec-timeout 1 0
```

```
login local
```

```
transport input ssh
```

```
!
```

```
!
```

```
!
```

```
end
```

Switch Despacho:

```
swDespacho#show run
```

```
Building configuration...
```

```
Current configuration : 1398 bytes
```

```
!
```

```
version 12.1
```

```
no service timestamps log datetime msec
```

```
no service timestamps debug datetime msec
```

```
no service password-encryption
```

```
!
```

```
hostname swDespacho
!
enable password Despacho.131517
!
!
!
ip domain-name swDespacho.com
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport access vlan 10
!
interface FastEthernet0/2
switchport access vlan 10
!
interface FastEthernet0/3
switchport access vlan 10
!
interface FastEthernet0/4
!
interface FastEthernet0/5
switchport access vlan 11
!
interface FastEthernet0/6
switchport access vlan 11
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
```

```
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
switchport mode trunk
!
interface Vlan1
no ip address
shutdown
!
interface Vlan10
ip address 192.168.40.5 255.255.255.128
!
!
!
!
line con 0
!
line vty 0 4
password Despacho.131517
login
transport input ssh
line vty 5 15
password Despacho.131517
login
transport input ssh
!
!
!
!
end
```

Switch empresa IoT:

```
Sw-lot#sh run
Building configuration...
```

```
Current configuration : 1425 bytes
```

```
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Sw-lot
!
enable password iot123
!
!
!
ip domain-name swlot.com
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport access vlan 10
!
interface FastEthernet0/2
switchport access vlan 11
!
interface FastEthernet0/3
switchport access vlan 11
!
interface FastEthernet0/4
switchport access vlan 11
!
interface FastEthernet0/5
switchport access vlan 11
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
```

```
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
switchport mode trunk
!
interface GigabitEthernet0/1
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
interface Vlan11
ip address 192.60.40.131 255.255.255.128
!
!
!
!
line con 0
!
line vty 0 4
password iot123
login
```



```
transport input ssh
line vty 5 15
password iot123
login
transport input ssh
!
!
!
!
end
```

Anexos:

