

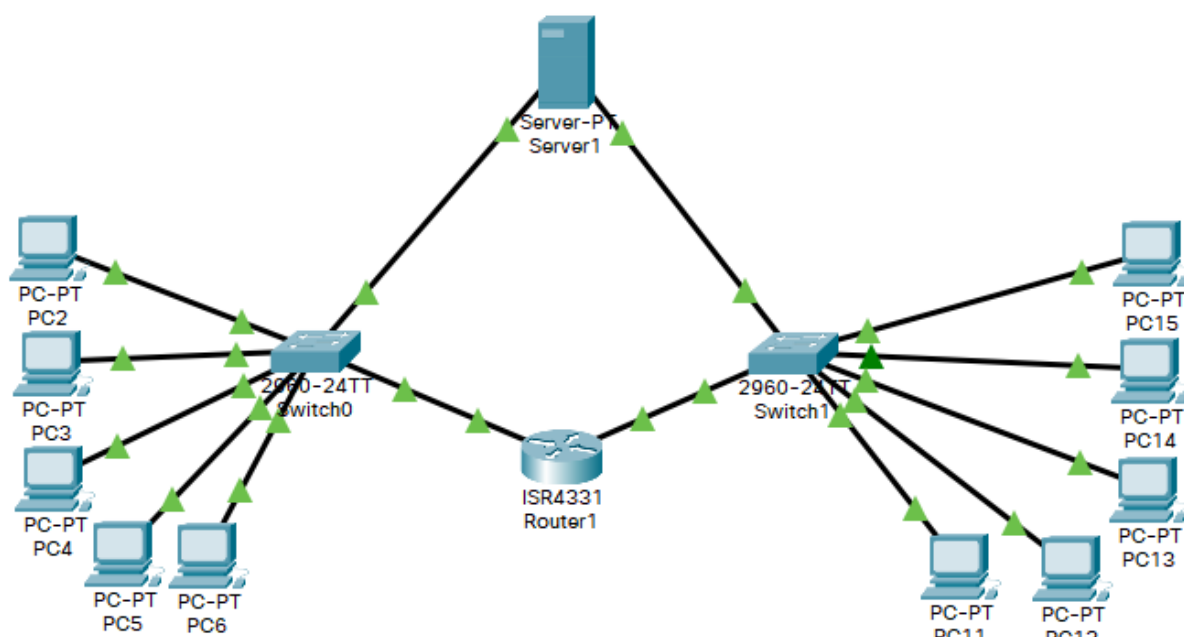
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DATA:05/02/2022

1. Crea duas redes de 5 equipos cada unha. A primeira no rango 192.168.0.0/24 e a segunda no rango 10.100.100.0/8. Ambas redes asignarán as ips de xeito automático e deben estar interconectadas entre sí.

A maiores, non se poderá usar máis de un server en todo o exercicio.

## EQUEMA



## SERVER DHCP 1

Server1

Physical Config Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

FastEthernet1

**Global Settings**

Display Name

Interfaces

**Gateway/DNS IPv4**

☐ DHCP

☒ Static

Default Gateway

DNS Server

**Gateway/DNS IPv6**

☐ Automatic

☒ Static

Default Gateway

DNS Server

Server1

Physical **Config** Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

FastEthernet1

**FastEthernet0**

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0005.5EE3.6616

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.0.200

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::205:5EFF:FEE3:6616

Server1

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

HTTP

**DHCP**

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

**DHCP**

Interface FastEthernet0 Service ☒ On ☐ Off

Pool Name serverPool

Default Gateway 192.168.0.1

DNS Server 192.168.0.201

Start IP Address : 192 168 0 2

Subnet Mask: 255 255 255 0

Maximum Number of Users : 7

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	192.168...	192.168...	192.168...	255.255...	7	0.0.0.0	0.0.0.0

## SERVER DHCP 2

Server1

Physical **Config** Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

FastEthernet1

**Global Settings**

Display Name: Server1

Interfaces: FastEthernet1

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway: 10.100.100.2

DNS Server: 172.1.20.200

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway:

DNS Server:

Server1

Physical **Config** Services Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

FastEthernet1

**FastEthernet1**

Port Status: ☒ On

Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address: 0001.6449.2DD2

IP Configuration

☐ DHCP

☒ Static

IPv4 Address: 10.100.100.1

Subnet Mask: 255.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address:

Link Local Address: FE80::201:64FF:FE49:2DD2

Server1

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

- HTTP
- DHCP**
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

**DHCP**

Interface: FastEthernet1 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 10.100.100.2

DNS Server: 172.1.20.200

Start IP Address: 10 100 100 3

Subnet Mask: 255 0 0 0

Maximum Number of Users: 7

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	10.100....	172.1.2...	10.100....	255.0.0.0	7	0.0.0.0	0.0.0.0

## HOST

PC2

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Bluetooth

Global Settings

Display Name PC2

Interfaces FastEthernet0

Gateway/DNS IPv4

☒ DHCP

☐ Static

Default Gateway 192.168.0.1

DNS Server 192.168.0.201

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

PC15

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Bluetooth

Global Settings

Display Name PC15

Interfaces FastEthernet0

Gateway/DNS IPv4

☒ DHCP

☐ Static

Default Gateway 10.100.100.2

DNS Server 172.1.20.200

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

## ROUTER

Router1

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**SWITCHING**

VLAN Database

**INTERFACE**

GigabitEthernet0/0/0

GigabitEthernet0/0/1

GigabitEthernet0/0/2

**GigabitEthernet0/0/0**

Port Status ☒ On

Bandwidth ☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0000.0CEC.7701

IP Configuration

IPv4 Address 192.168.0.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Router1

Physical Config CLI Attributes

**GLOBAL**

Settings

Algorithm Settings

**ROUTING**

Static

RIP

**SWITCHING**

VLAN Database

**INTERFACE**

GigabitEthernet0/0/0

**GigabitEthernet0/0/1**

GigabitEthernet0/0/2

**GigabitEthernet0/0/1**

Port Status ☒ On

Bandwidth ☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0000.0CEC.7702











IP Configuration

IPv4 Address 10.100.100.2

Subnet Mask 255.0.0.0

Tx Ring Limit 10

## PRUEBAS

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC2	PC6	ICMP		0.000	N	0	(edit)	
	Successful	PC15	PC11	ICMP		0.000	N	1	(edit)	
	Successful	PC15	PC2	ICMP		0.000	N	2	(edit)	
	Successful	PC11	Server1	ICMP		0.000	N	3	(edit)	
	Successful	PC6	Server1	ICMP		0.000	N	4	(edit)	

As respostas daranse en formato captura de pantalla con texto de apoio se é necesario. Deben incluír, cando menos:

- ⑩ Esquema completo
- ⑩ Configuración de cliente para cada rede
- ⑩ Todas as configuracións feitas nos server
- ⑩ Configuración do router
- ⑩ Probas de conectividade entre os equipos da rede