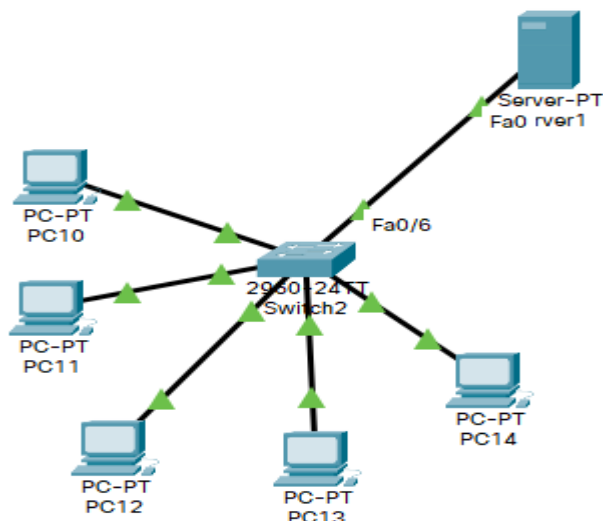


NOME:**DATA:**

1. Diseña unha rede de cinco equipos no rango 10.10.10.x/16, que reciban de xeito automático a súa configuración IP.

ESQUEMA



SERVIDOR

Server1

Physical Config Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

FastEthernet1

Global Settings

Display Name: Server1

Interfaces: FastEthernet0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway: 192.168.1.1

DNS Server: 10.10.10.200

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 0001.C9AA.1D59

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 10.10.10.201

Subnet Mask 255.255.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::201:C9FF:FEAA:1D59

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 10.10.10.1

DNS Server 10.10.10.200

Start IP Address : 10 10 10 2

Subnet Mask: 255 255 0 0

Maximum Number of Users : 10

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	10.10.1...	10.10.1...	10.10.1...	255.255...	10	0.0.0.0	0.0.0.0

HOST

PC10

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

Global Settings

Display NamePC10

InterfacesFastEthernet0

Gateway/DNS IPv4

DHCP

Static

Default Gateway10.10.10.1

DNS Server10.10.10.200

Gateway/DNS IPv6





Automatic

Static

Default Gateway

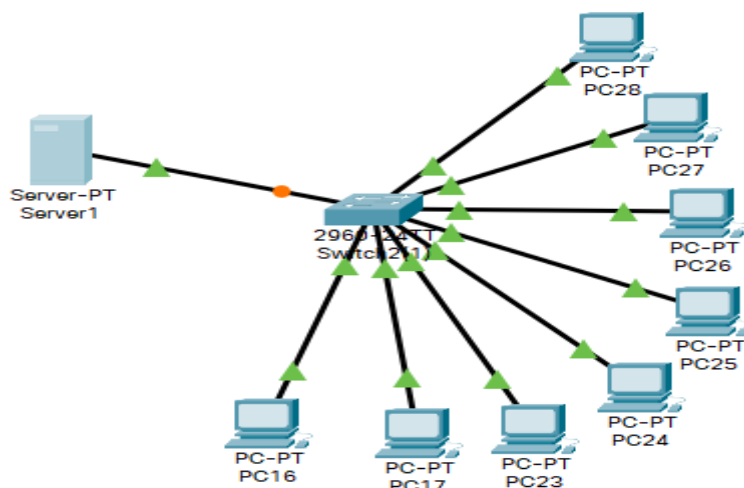
DNS Server

PRUEBAS

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC14	PC10	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC12	Server1	ICMP		0.000	N	1	(edit)	(delete)

2. Diseña unha rede de oito equipos no rango 192.168.1.x/24, que reciban de xeito automático a súa configuración IP.

ESQUEMA



SERVIDOR

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: 192.168.1.1

DNS Server: 192.168.1.200

Start IP Address: 192 168 1 2

Subnet Mask: 255 255 255 0

Maximum Number of Users: 12

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...	12	0.0.0.0	0.0.0.0

Server1

Physical **Config** Services Desktop Programming Attributes

- GLOBAL**
- Settings
- Algorithm Settings
- INTERFACE**
- FastEthernet0
- FastEthernet1

Global Settings

Display Name Interfaces

Gateway/DNS IPv4

☐ DHCP☒ StaticDefault Gateway DNS Server

Gateway/DNS IPv6

☐ Automatic☒ StaticDefault Gateway DNS Server

Server1

Physical **Config** Services Desktop Programming Attributes

- GLOBAL**
- Settings
- Algorithm Settings
- INTERFACE**
- FastEthernet0
- FastEthernet1

FastEthernet1

Port Status ☒ OnBandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ AutoDuplex ☐ Half Duplex ☒ Full Duplex ☒ AutoMAC Address

IP Configuration

☐ DHCP☒ StaticIPv4 Address Subnet Mask

IPv6 Configuration

☐ Automatic☒ StaticIPv6 Address Link Local Address:

HOST

PC26

Physical Config Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 000A.F305.7145

IP Configuration

☒ DHCP

☐ Static

IPv4 Address 192.168.1.5

Subnet Mask 255.255.255.0

IPv6 Configuration





☐ Automatic

☒ Static

IPv6 Address

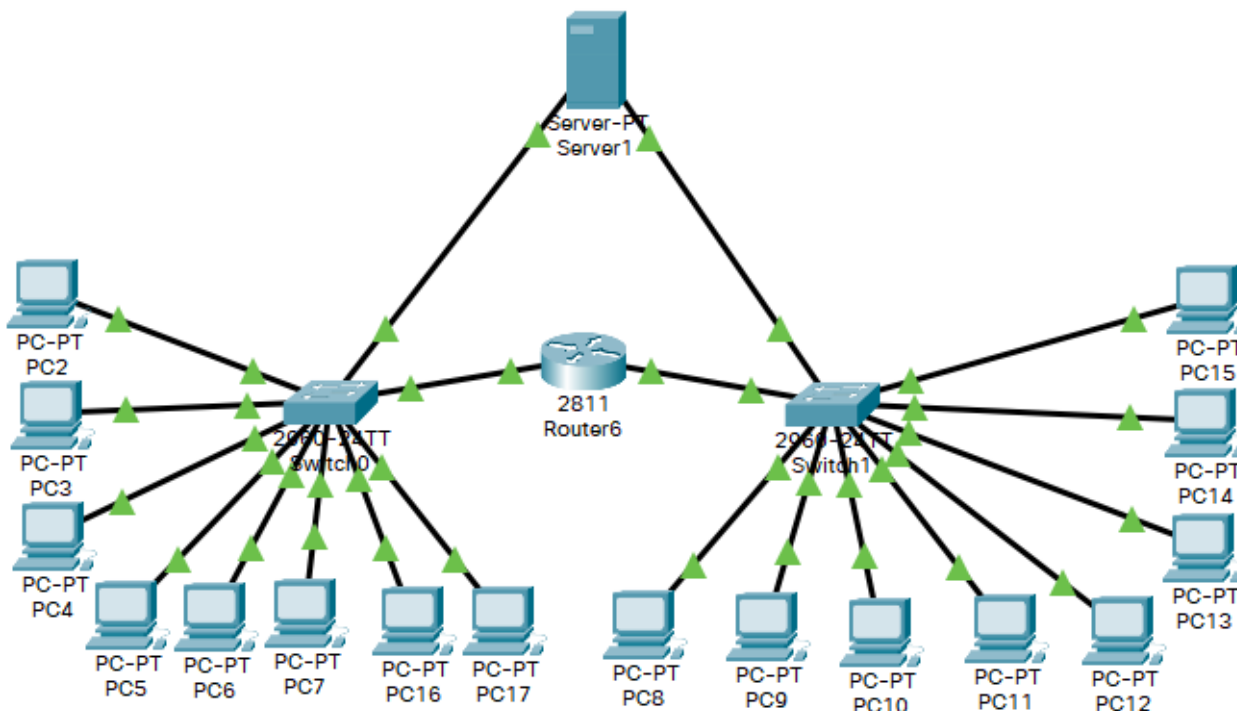
Link Local Address: FE80::20A:F3FF:FE05:7145

PRUEBAS

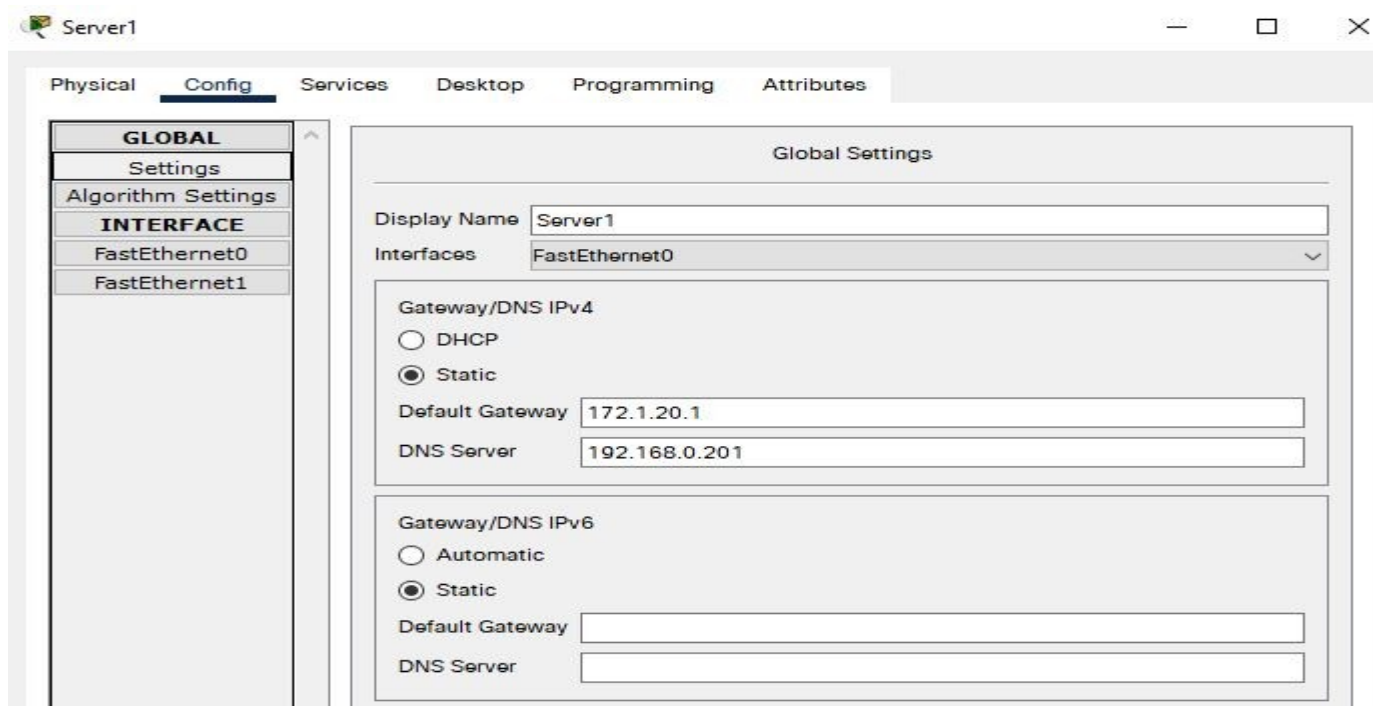
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	Server1	PC28	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC24	PC27	ICMP		0.000	N	1	(edit)	(delete)

3. Deseña unha rede de 16 equipos, oito no rango 192.168.0.x/24 e outros oito no rango 172.1.20.x/16, que reciban de forma automática a súa configuración IP.

ESQUEMA



SERVIDOR 1



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 : 20

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...	20	0.0.0.0	0.0.0.0

HOST 1

PC2

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.424D.BCBD

IP Configuration

☒ DHCP

☐ Static

IPv4 Address 192.168.0.2

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::201:42FF:FE4D:BCBD

SERVIDOR 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 172.1.20.1

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

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 172.1.20.201

Subnet Mask 255.255.0.0

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 172.1.20.1

DNS Server 0.0.0.0

Start IP Address : 172 1 0 0

Subnet Mask: 255 255 0 0

Maximum Number of Users : 20

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	172.1.2...	0.0.0.0	172.1.0.0	255.255...	20	0.0.0.0	0.0.0.0

HOST 2

PC10

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 000B.BE2A.0125

IP Configuration

☒ DHCP

☐ Static

IPv4 Address 172.1.0.5

Subnet Mask 255.255.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::20B:BEFF:FE2A:125

ROUTER

Router0

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 0060.5C84.8901

IP Configuration

IPv4 Address 192.168.0.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Router0

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

0060.5C84.8902

IP Configuration

IPv4 Address

172.1.20.1











Subnet Mask

255.255.0.0

Tx Ring Limit

10

PRUEBAS

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC2	PC17	ICMP		0.000	N	0	(edit)	
	Successful	PC15	PC11	ICMP		0.000	N	1	(edit)	
	Successful	PC2	PC15	ICMP		0.000	N	2	(edit)	
	Successful	PC5	Server1	ICMP		0.000	N	3	(edit)	
	Successful	PC12	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:

- *Esquema completo*
- *Todas as configuracións feitas nos dispositivos cpmfogurables da rede*
- *Probas de conectividade entre os equipos da rede*
- *Valorarase o axuste económico das solucións*