NOMBRE DE LA MATERIA
Fundamento de Redes

NOMBRE DEL DOCENTE
Rafael Preciado Gutiérrez

NOMBRE DEL TRABAJO
Actividad 6

NOMBRE DEL ALUMNO
Alejandro Guevara de Luna

UNIDAD
2

FECHA Y LUGAR
27 de octubre del 2022

Dispositivos:

CDMX:

2 Routers	1841 Router10
3 Switch	2960-24TT Switch4
1 Server	Server-PT Server7
45 PC's	PC-PT PC67

MTY:

2 Routers	1841 Router10
4 Switch	2960-24TT Switch4
20 PC's	PC-PT PC67

GLD:

1 Router	1841 Router10
2 Switch	2960-24TT Switch4
30 PC's	PC-PT PC67

IP's de los dispositivos:

Global:

Dispositivo	Puerto	IPv4	Mascara	Gateway
Router G	S 0/0	192.168.11.1	255.255.255.0	NA
	S 0/1	192.168.12.1	255.255.255.0	NA
	S 1/0	192.168.13.1	255.255.255.0	NA

CDMX:

Dispositivo	Puerto	IPv4	Mascara	Gateway
Router 1	S 0/0	192.168.0.1	255.255.255.0	NA
	S 0/1	192.168.11.2	255.255.255.0	NA
	Fa 0/0	192.167.0.1	255.255.255.0	NA
	Fa 0/1	192.168.4.1	255.255.255.0	NA
Router 2	S 0/0	192.168.0.2	255.255.255.0	NA
	Fa 0/0	192.168.2.1	255.255.255.0	NA
	Fa 0/1	192.168.3.1	255.255.255.0	NA
Server 1	Fa 0/0	192.167.0.2	255.255.255.0	192.167.0.1
PC1	Fa 0/0	192.168.2.2	255.255.255.0	192.168.2.1
PC2	Fa 0/0	192.168.2.3	255.255.255.0	192.168.2.1
PC3	Fa 0/0	192.168.2.4	255.255.255.0	192.168.2.1
PC4	Fa 0/0	192.168.2.5	255.255.255.0	192.168.2.1
PC5	Fa 0/0	192.168.2.6	255.255.255.0	192.168.2.1
PC6	Fa 0/0	192.168.2.7	255.255.255.0	192.168.2.1
PC7	Fa 0/0	192.168.2.8	255.255.255.0	192.168.2.1
PC8	Fa 0/0	192.168.2.9	255.255.255.0	192.168.2.1
PC9	Fa 0/0	192.168.2.10	255.255.255.0	192.168.2.1
PC10	Fa 0/0	192.168.2.11	255.255.255.0	192.168.2.1
PC11	Fa 0/0	192.168.2.12	255.255.255.0	192.168.2.1
PC12	Fa 0/0	192.168.2.13	255.255.255.0	192.168.2.1
PC13	Fa 0/0	192.168.2.14	255.255.255.0	192.168.2.1
PC14	Fa 0/0	192.168.2.15	255.255.255.0	192.168.2.1

PC15	Fa 0/0	192.168.2.16	255.255.255.0	192.168.2.1
PC16	Fa 0/0	192.168.2.17	255.255.255.0	192.168.2.1
PC17	Fa 0/0	192.168.2.18	255.255.255.0	192.168.2.1
PC18	Fa 0/0	192.168.2.19	255.255.255.0	192.168.2.1
PC19	Fa 0/0	192.168.2.20	255.255.255.0	192.168.2.1
PC20	Fa 0/0	192.168.2.21	255.255.255.0	192.168.2.1
PC21	Fa 0/0	192.168.3.2	255.255.255.0	192.168.3.1
PC22	Fa 0/0	192.168.3.3	255.255.255.0	192.168.3.1
PC23	Fa 0/0	192.168.3.4	255.255.255.0	192.168.3.1
PC24	Fa 0/0	192.168.3.5	255.255.255.0	192.168.3.1
PC25	Fa 0/0	192.168.3.6	255.255.255.0	192.168.3.1
PC26	Fa 0/0	192.168.3.7	255.255.255.0	192.168.3.1
PC27	Fa 0/0	192.168.3.8	255.255.255.0	192.168.3.1
PC28	Fa 0/0	192.168.3.9	255.255.255.0	192.168.3.1
PC29	Fa 0/0	192.168.3.10	255.255.255.0	192.168.3.1
PC30	Fa 0/0	192.168.3.11	255.255.255.0	192.168.3.1
PC31	Fa 0/0	192.168.4.2	255.255.255.0	192.168.4.1
PC32	Fa 0/0	192.168.4.3	255.255.255.0	192.168.4.1
PC33	Fa 0/0	192.168.4.4	255.255.255.0	192.168.4.1
PC34	Fa 0/0	192.168.4.5	255.255.255.0	192.168.4.1
PC35	Fa 0/0	192.168.4.6	255.255.255.0	192.168.4.1
PC36	Fa 0/0	192.168.4.7	255.255.255.0	192.168.4.1
PC37	Fa 0/0	192.168.4.8	255.255.255.0	192.168.4.1
PC38	Fa 0/0	192.168.4.9	255.255.255.0	192.168.4.1
PC39	Fa 0/0	192.168.4.10	255.255.255.0	192.168.4.1
PC40	Fa 0/0	192.168.4.11	255.255.255.0	192.168.4.1
PC41	Fa 0/0	192.168.4.12	255.255.255.0	192.168.4.1
PC42	Fa 0/0	192.168.4.13	255.255.255.0	192.168.4.1
PC43	Fa 0/0	192.168.4.14	255.255.255.0	192.168.4.1
PC44	Fa 0/0	192.168.4.15	255.255.255.0	192.168.4.1
PC45	Fa 0/0	192.168.4.16	255.255.255.0	192.168.4.1

MTY:

Dispositivo	Puerto	IPv4	Mascara	Gateway
Router 1	S 0/0	192.168.1.1	255.255.255.0	NA
	S 0/1	192.168.12.2	255.255.255.0	NA
	Fa 0/0	192.168.5.1	255.255.255.0	NA
	Fa 0/1	192.168.6.1	255.255.255.0	NA
Router 2	S 0/0	192.168.1.2	255.255.255.0	NA
	Fa 0/0	192.168.7.1	255.255.255.0	NA
	Fa 0/1	192.168.8.1	255.255.255.0	NA
PC1	Fa 0/0	192.168.5.2	255.255.255.0	192.168.5.1
PC2	Fa 0/0	192.168.5.3	255.255.255.0	192.168.5.1
PC3	Fa 0/0	192.168.5.4	255.255.255.0	192.168.5.1
PC4	Fa 0/0	192.168.5.5	255.255.255.0	192.168.5.1
PC5	Fa 0/0	192.168.5.6	255.255.255.0	192.168.5.1
PC6	Fa 0/0	192.168.5.7	255.255.255.0	192.168.5.1
PC7	Fa 0/0	192.168.5.8	255.255.255.0	192.168.5.1
PC8	Fa 0/0	192.168.5.9	255.255.255.0	192.168.5.1
PC9	Fa 0/0	192.168.5.10	255.255.255.0	192.168.5.1
PC10	Fa 0/0	192.168.5.11	255.255.255.0	192.168.5.1
PC11	Fa 0/0	192.168.6.2	255.255.255.0	192.168.6.1
PC12	Fa 0/0	192.168.6.3	255.255.255.0	192.168.6.1
PC13	Fa 0/0	192.168.6.4	255.255.255.0	192.168.6.1
PC14	Fa 0/0	192.168.6.5	255.255.255.0	192.168.6.1
PC15	Fa 0/0	192.168.6.6	255.255.255.0	192.168.6.1
PC16	Fa 0/0	192.168.6.7	255.255.255.0	192.168.6.1
PC17	Fa 0/0	192.168.6.8	255.255.255.0	192.168.6.1
PC18	Fa 0/0	192.168.6.9	255.255.255.0	192.168.6.1
PC19	Fa 0/0	192.168.6.10	255.255.255.0	192.168.6.1
PC20	Fa 0/0	192.168.6.11	255.255.255.0	192.168.6.1
PC21	Fa 0/0	192.168.7.2	255.255.255.0	192.168.7.1
PC22	Fa 0/0	192.168.7.3	255.255.255.0	192.168.7.1

PC23	Fa 0/0	192.168.7.4	255.255.255.0	192.168.7.1
PC24	Fa 0/0	192.168.7.5	255.255.255.0	192.168.7.1
PC25	Fa 0/0	192.168.7.6	255.255.255.0	192.168.7.1
PC26	Fa 0/0	192.168.7.7	255.255.255.0	192.168.7.1
PC27	Fa 0/0	192.168.7.8	255.255.255.0	192.168.7.1
PC28	Fa 0/0	192.168.7.9	255.255.255.0	192.168.7.1
PC29	Fa 0/0	192.168.7.10	255.255.255.0	192.168.7.1
PC30	Fa 0/0	192.168.7.11	255.255.255.0	192.168.7.1
PC31	Fa 0/0	192.168.8.2	255.255.255.0	192.168.8.1
PC32	Fa 0/0	192.168.8.3	255.255.255.0	192.168.8.1
PC33	Fa 0/0	192.168.8.4	255.255.255.0	192.168.8.1
PC34	Fa 0/0	192.168.8.5	255.255.255.0	192.168.8.1
PC35	Fa 0/0	192.168.8.6	255.255.255.0	192.168.8.1
PC36	Fa 0/0	192.168.8.7	255.255.255.0	192.168.8.1
PC37	Fa 0/0	192.168.8.8	255.255.255.0	192.168.8.1
PC38	Fa 0/0	192.168.8.9	255.255.255.0	192.168.8.1
PC39	Fa 0/0	192.168.8.10	255.255.255.0	192.168.8.1
PC40	Fa 0/0	192.168.8.11	255.255.255.0	192.168.8.1

GDL:

Dispositivo	Puerto	IPv4	Mascara	Gateway
Router 1	S 0/0	192.168.13.1	255.255.255.0	NA
	Fa 0/0	192.168.9.1	255.255.255.0	NA
	Fa 0/1	192.168.10.1	255.255.255.0	NA
PC1	Fa 0/0	192.168.9.2	255.255.255.0	192.168.9.1
PC2	Fa 0/0	192.168.9.3	255.255.255.0	192.168.9.1
PC3	Fa 0/0	192.168.9.4	255.255.255.0	192.168.9.1
PC4	Fa 0/0	192.168.9.5	255.255.255.0	192.168.9.1
PC5	Fa 0/0	192.168.9.6	255.255.255.0	192.168.9.1
PC6	Fa 0/0	192.168.9.7	255.255.255.0	192.168.9.1
PC7	Fa 0/0	192.168.9.8	255.255.255.0	192.168.9.1
PC8	Fa 0/0	192.168.9.9	255.255.255.0	192.168.9.1
PC9	Fa 0/0	192.168.9.10	255.255.255.0	192.168.9.1
PC10	Fa 0/0	192.168.9.11	255.255.255.0	192.168.9.1
PC11	Fa 0/0	192.168.9.12	255.255.255.0	192.168.9.1
PC12	Fa 0/0	192.168.9.13	255.255.255.0	192.168.9.1
PC13	Fa 0/0	192.168.9.14	255.255.255.0	192.168.9.1
PC14	Fa 0/0	192.168.9.15	255.255.255.0	192.168.9.1
PC15	Fa 0/0	192.168.9.16	255.255.255.0	192.168.9.1
PC16	Fa 0/0	192.168.10.2	255.255.255.0	192.168.10.1
PC17	Fa 0/0	192.168.10.3	255.255.255.0	192.168.10.1
PC18	Fa 0/0	192.168.10.4	255.255.255.0	192.168.10.1
PC19	Fa 0/0	192.168.10.5	255.255.255.0	192.168.10.1
PC20	Fa 0/0	192.168.10.6	255.255.255.0	192.168.10.1
PC21	Fa 0/0	192.168.10.7	255.255.255.0	192.168.10.1
PC22	Fa 0/0	192.168.10.8	255.255.255.0	192.168.10.1
PC23	Fa 0/0	192.168.10.9	255.255.255.0	192.168.10.1
PC24	Fa 0/0	192.168.10.10	255.255.255.0	192.168.10.1
PC25	Fa 0/0	192.168.10.11	255.255.255.0	192.168.10.1
PC26	Fa 0/0	192.168.10.12	255.255.255.0	192.168.10.1

PC27	Fa 0/0	192.168.10.13	255.255.255.0	192.168.10.1
PC28	Fa 0/0	192.168.10.14	255.255.255.0	192.168.10.1
PC29	Fa 0/0	192.168.10.15	255.255.255.0	192.168.10.1
PC30	Fa 0/0	192.168.10.16	255.255.255.0	192.168.10.1

Precios:

Router: $372,639.00

Router Cisco Firewall ISR4451-X-SEC/K9, Alámbrico, 8x RJ-45

SKU: ISR4451-X-SEC/K9

- Cortafuego : ✓

$372,639.00

Costo de envío: $154.00

Producto agotado

Notificarme de nuevas existencias

Comparar

Switch: $19,529.00

Switch Allied Telesis Fast Ethernet, 48 Puertos 10/100Mbps + 4 Puertos SFP, 17.6 Gbit/s, 16.000 Entradas - Gestionado

SKU: AT-FS980M/52-10

- Cantidad de Puertos: **48**
- Puertos RJ-45 Ethernet: **Fast Ethernet (10/100)**
- Capacidad de conmutación: **17,6 Gbit/s**
- Tipo de interruptor: **Gestionado**
- Energía sobre Ethernet (PoE): ✗

$19,529.00 Añadir al carrito

Costo de envío: $99.00

Disponibles: 2 pzas. Comparar

PC: $10,000.00

Server: $384,829.00

Servidor HPE ProLiant DL560 Gen10, Intel Xeon Gold 6230 2.10GHz, 128GB DDR4, máx. 58TB, 2.5", SATA, Rack (2U) - no Sistema Operativo Instalado

SKU: P02873-B21

- Tipo de chasis: **Bastidor (2U),**
- Familia de procesador: **Intel® Xeon® Gold, 2933 MHz**
- Memoria interna: **128 GB, DDR4-SDRAM**

$364,829.00 Añadir al carrito

Costo de envío: $294.00

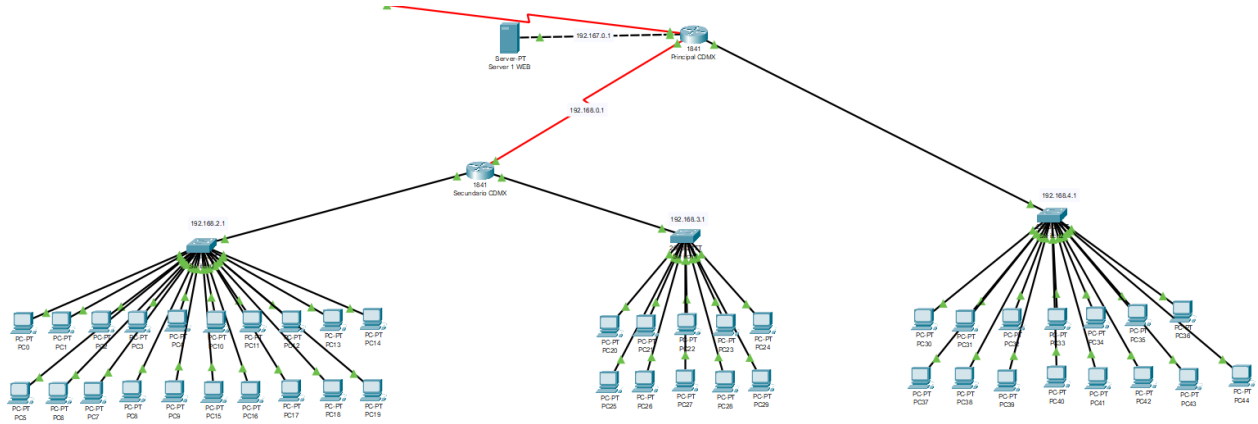
Disponibles: 6 pzas. Comparar

Costo de la red:

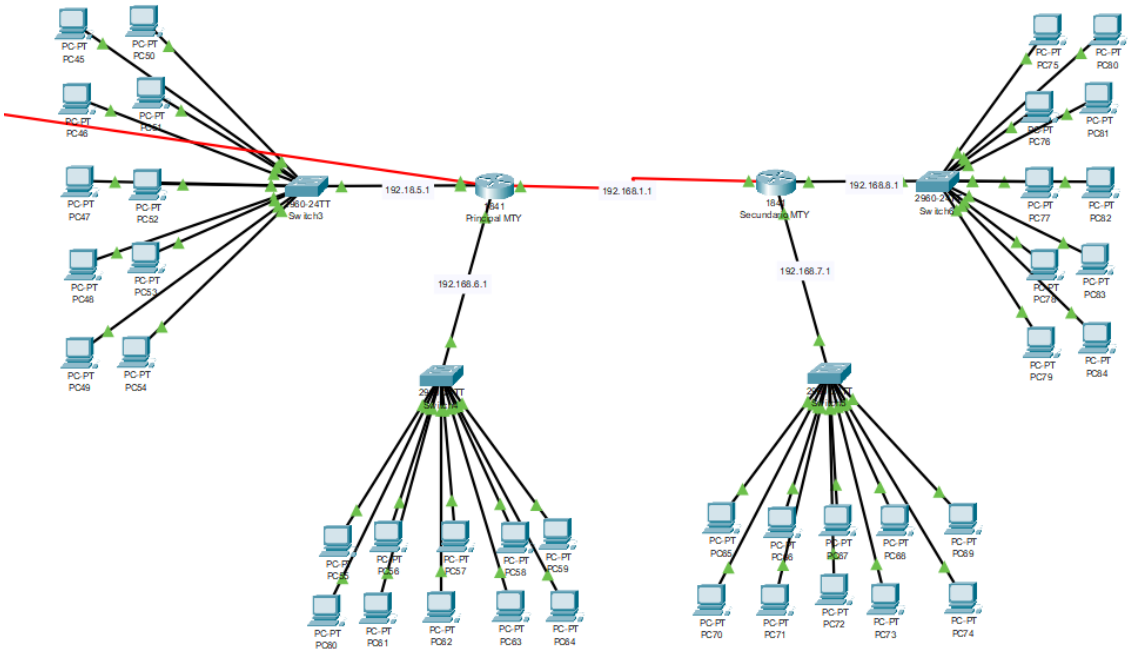
Estado	Precio
CDMX • **2 Routers** • **3 Switch** • **1 Servidor** • **45 PC**	$1,638,694.00
MTY • **2 Routers** • **4 Switch** • **20 PC's**	$1,023,394.00
GDL • **1 Router** • **2 Switch** • **30 PC's**	$711,697.00
Total	**$3,373,785.00**

Conexión de los dispositivos:

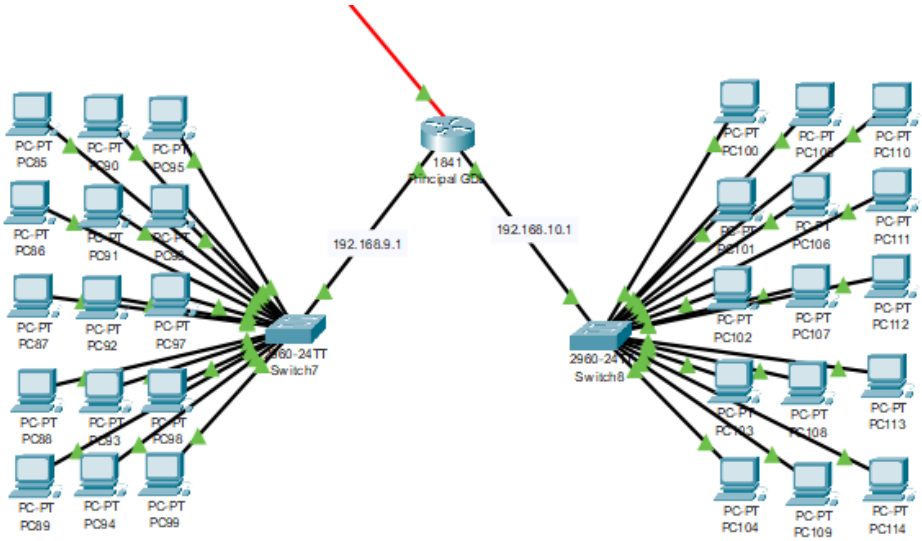
CDMX:



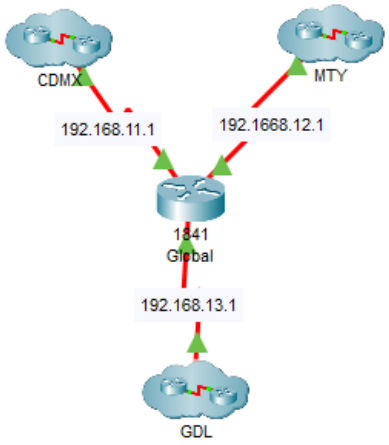
MTY:



GDL:


PC-PT PC85
PC-PT PC90
PC-PT PC95
PC-PT PC86
PC-PT PC91
PC-PT PC96
PC-PT PC87
PC-PT PC92
PC-PT PC97
PC-PT PC88
PC-PT PC93
PC-PT PC98
PC-PT PC89
PC-PT PC94
PC-PT PC99
1841
Principal GDL
192.168.9.1
192.168.10.1
2960-24TT
Switch7
2960-24
Switch8
PC-PT PC100
PC-PT PC105
PC-PT PC110
PC-PT PC101
PC-PT PC106
PC-PT PC111
PC-PT PC102
PC-PT PC107
PC-PT PC112
PC-PT PC103
PC-PT PC108
PC-PT PC113
PC-PT PC104
PC-PT PC109
PC-PT PC114

Global:


CDMX
MTY
192.168.11.1
192.1668.12.1
1841
Global
192.168.13.1
GDL