

**DEPARTAMENTO:** Ciencias de la Ingeniería

**CARRERA:** Sistemas de Información

**CURSO:** Séptimo **PARALELO:** "A"

**ASIGNATURA:** Redes de Datos 1

**PROFESOR:** Mg. Tannia Mayorga.

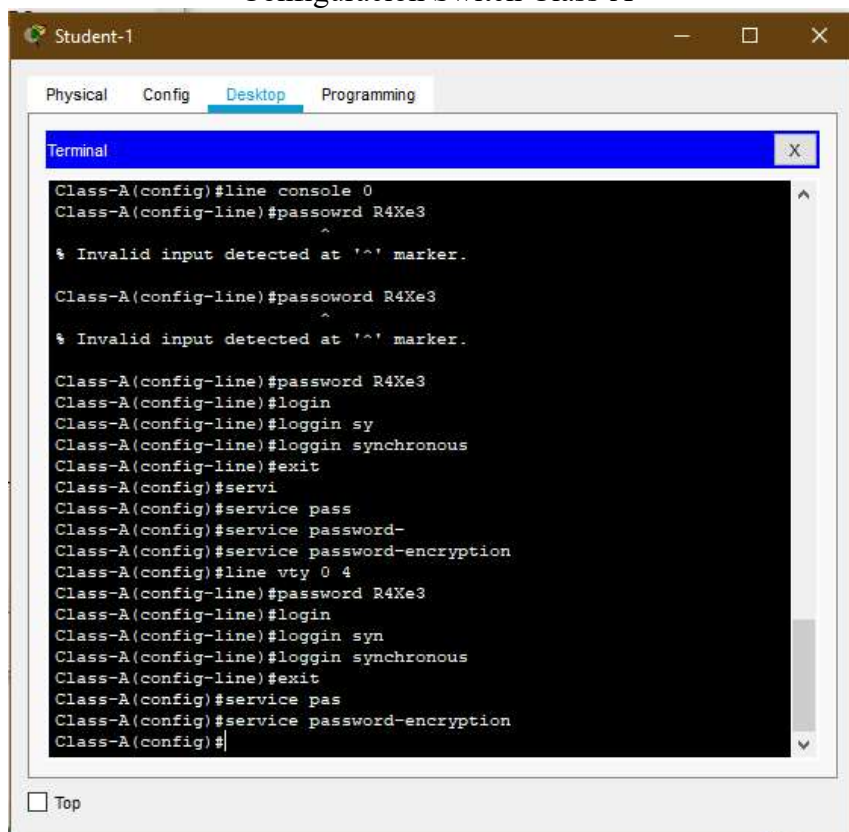
**ESTUDIANTE:** Marco Ayala

**DESCRIPCIÓN:** Lab 2.9.1 -S1

## TEMA:

## DESARROLLO:

### Configuración Switch Class-A



```
Student-1
Physical Config Desktop Programming
Terminal
Class-A(config)#line console 0
Class-A(config-line)#password R4Xe3
^
% Invalid input detected at '^' marker.
Class-A(config-line)#password R4Xe3
^
% Invalid input detected at '^' marker.
Class-A(config-line)#password R4Xe3
Class-A(config-line)#login
Class-A(config-line)#login sy
Class-A(config-line)#login synchronous
Class-A(config-line)#exit
Class-A(config)#servi
Class-A(config)#service pass
Class-A(config)#service password-
Class-A(config)#service password-encryption
Class-A(config)#line vty 0 4
Class-A(config-line)#password R4Xe3
Class-A(config-line)#login
Class-A(config-line)#login syn
Class-A(config-line)#login synchronous
Class-A(config-line)#exit
Class-A(config)#service pas
Class-A(config)#service password-encryption
Class-A(config)#
```

## Configuración Switch Class-B

```

Class-B(config-line)#login
Class-B(config-line)#logging syn
Class-B(config-line)#logging synchronous
Class-B(config-line)#exit
Class-B(config)#service pass
Class-B(config)#service password-encryption
Class-B(config)#banner motd #Acceso Restringido Class-B#
Class-B(config)#interface VLAN 1
Class-B(config-if)#ip address 128.107.20.15 255.255.255.0
Class-B(config-if)#no shutdown

Class-B(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state
to up

Class-B(config-if)#exit
Class-B(config)#exit
Class-B#
%SYS-5-CONFIG_I: Configured from console by console

Class-B#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Class-B#
  
```

Resultado 100%

**Packet Tracer - Basic Switch and End Device Configuration**

**Addressing Table**

Device	Interface	IP Address	Subnet Mask
Class-A	VLAN 1	128.107.20.10	255.255.255.0
Class-B	VLAN 1	128.107.20.15	255.255.255.0
Student-1	NIC	128.107.20.25	255.255.255.0
Student-2	NIC	128.107.20.30	255.255.255.0

**Objectives**

- Configure hostnames and IP addresses on two Cisco Internetwork Operating System (IOS) switches using the command-line interface (CLI).
- Use Cisco IOS commands to specify or limit access to the device configurations.
- Use IOS commands to save the running configuration.
- Configure two host devices with IP addresses.
- Verify connectivity between the two PC end devices.

**Scenario**

As a recently hired LAN technician, your network manager has asked you to demonstrate your ability to configure a small

Time Elapsed: 00:29:52 Completion: 100%\*

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Check List Resultado 100%

Cisco Packet Tracer - D:\GitHub\7moUniversidad\Redes de Datos\Semana1\2.9.1-packet-tracer---basic-switch-and-end-device-configuration (1).pka

File Edit Options View Tools Extensions Help

Activity Results Time Elapsed: 00:30:18

Congratulations Guest! You completed the activity.

Overall Feedback **Assessment Items** Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
Class-A				
Banner MOTD	Correct	2	Basic Security C...	
Console Line	Correct	0	Other	
Password	Correct	1	Basic Security C...	
Enable Secret	Correct	2	Basic Security C...	
Host Name	Correct	1	Hostname Config...	
Ports				
Vlan1				
IP Address	Correct	7	IPv4 Host Adre...	
Port Status	Correct	5	IPv4 Host Adre...	
Subnet Mask	Correct	7	IPv4 Host Adre...	
Service Password Encryption	Correct	1	Basic Security C...	
Startup Config	Correct	2	Configuration Ma...	
VTY Lines				
VTY Line 0	Correct	0	Other	
Password	Correct	1	Basic Security C...	
Class-B				
Banner MOTD	Correct	2	Basic Security C...	
Console Line	Correct	0	Other	
Password	Correct	1	Basic Security C...	
Enable Secret	Correct	2	Basic Security C...	
Host Name	Correct	1	Hostname Config...	
Ports				
Vlan1				
IP Address	Correct	7	IPv4 Host Adre...	
Port Status	Correct	5	IPv4 Host Adre...	
Subnet Mask	Correct	7	IPv4 Host Adre...	
Service Password Encryption	Correct	1	Basic Security C...	
Startup Config	Correct	2	Configuration Ma...	
VTY Lines	Correct	0	Other	

Score : 100/100

Item Count : 24/24

Component	Items/Total	Score
Basic Security Configuration	10/10	14/14
Configuration Management	2/2	4/4
Hostname Configuration	2/2	2/2
IPv4 Host Address Configuration	10/10	70/70
<b>Connectivity</b>		
Connectivity Tests	6/6	10/10

## Validación de conectividad Class-A

Student-1

Physical Config **Desktop** Programming

Command Prompt

```

Packet Tracer PC Command Line 1.0
C:\>ping 128.107.20.10

Pinging 128.107.20.10 with 32 bytes of data:

Reply from 128.107.20.10: bytes=32 time<1ms TTL=255
Reply from 128.107.20.10: bytes=32 time<1ms TTL=255
Reply from 128.107.20.10: bytes=32 time<1ms TTL=255
Reply from 128.107.20.10: bytes=32 time=3ms TTL=255

Ping statistics for 128.107.20.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 1ms

C:\>|

```

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## Conectividad Class-B



