

**DEPARTAMENTO:** Ciencias de la Ingeniería

**CARRERA:** Sistemas de Información

**CURSO:** Séptimo **PARALELO:** "A"

**ASIGNATURA:** Redes de Datos I

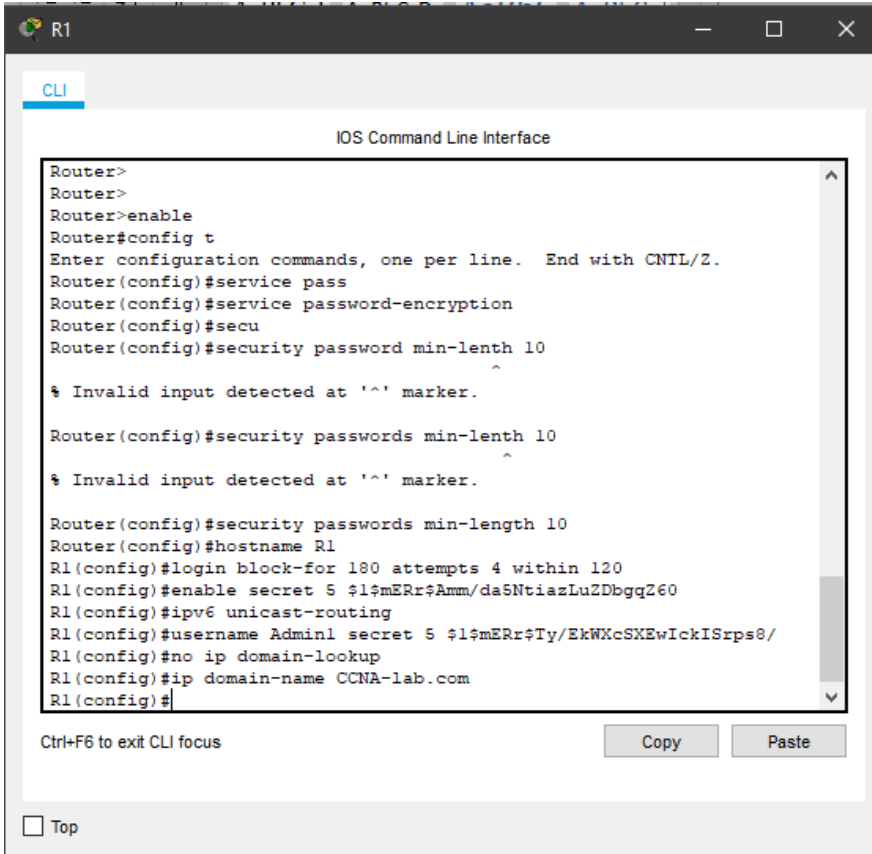
**PROFESOR:** Mg. Tannia Mayorga.

**ESTUDIANTE:** Marco Antonio Ayala Lituma

**DESCRIPCIÓN:** Tarea S7

## TEMA:

## DESARROLLO:

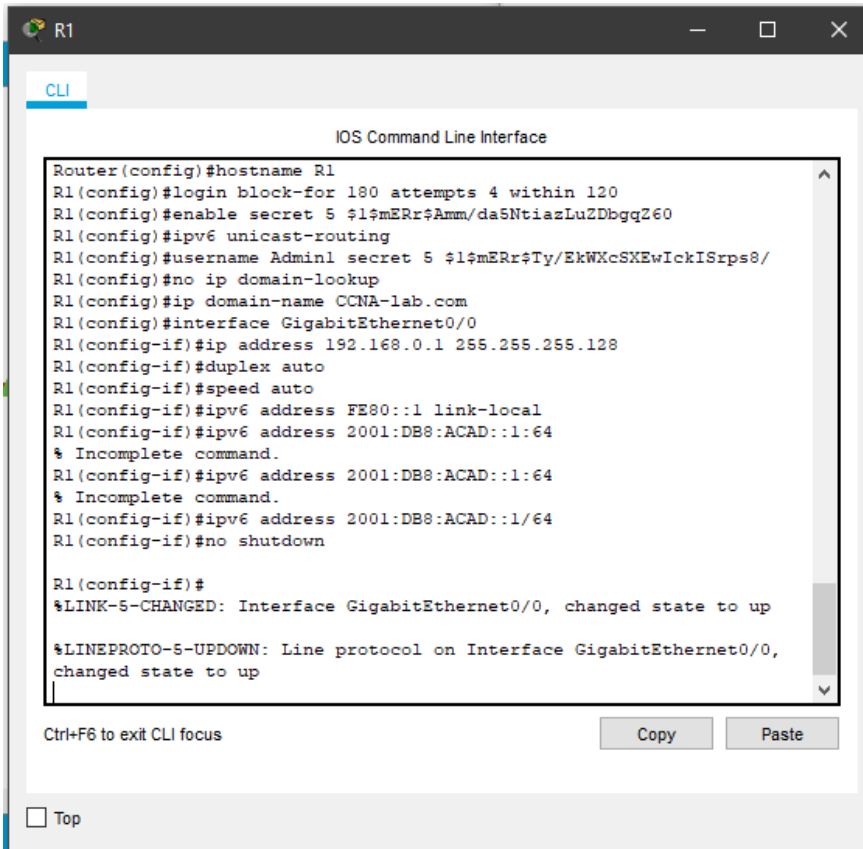


```
Router>
Router>
Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#service pass
Router(config)#service password-encryption
Router(config)#secu
Router(config)#security password min-lenth 10
Router(config)#security passwords min-lenth 10
Router(config)#security passwords min-length 10
Router(config)#hostname R1
R1(config)#login block-for 180 attempts 4 within 120
R1(config)#enable secret 5 $1$mERr?Amm/da5NtiazLuZDbgqZ60
R1(config)#ipv6 unicast-routing
R1(config)#username Admin1 secret 5 $1$mERr?Ty/EkWXcSXEWIckISrps8/
R1(config)#no ip domain-lookup
R1(config)#ip domain-name CCNA-lab.com
R1(config)#
```

Ctrl+F6 to exit CLI focus

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R1

CLI

IOS Command Line Interface

```
Router(config)#hostname R1
R1(config)#login block-for 180 attempts 4 within 120
R1(config)#enable secret 5 $1$mERr$Amm/da5NtiazLuZDbgqZ60
R1(config)#ipv6 unicast-routing
R1(config)#username Admin1 secret 5 $1$mERr$Ty/EkWKcSXEWickISrps8/
R1(config)#no ip domain-lookup
R1(config)#ip domain-name CCNA-lab.com
R1(config)#interface GigabitEthernet0/0
R1(config-if)#ip address 192.168.0.1 255.255.255.128
R1(config-if)#duplex auto
R1(config-if)#speed auto
R1(config-if)#ipv6 address FE80::1 link-local
R1(config-if)#ipv6 address 2001:DB8:ACAD::1:64
% Incomplete command.
R1(config-if)#ipv6 address 2001:DB8:ACAD::1:64
% Incomplete command.
R1(config-if)#ipv6 address 2001:DB8:ACAD::1/64
R1(config-if)#no shutdown

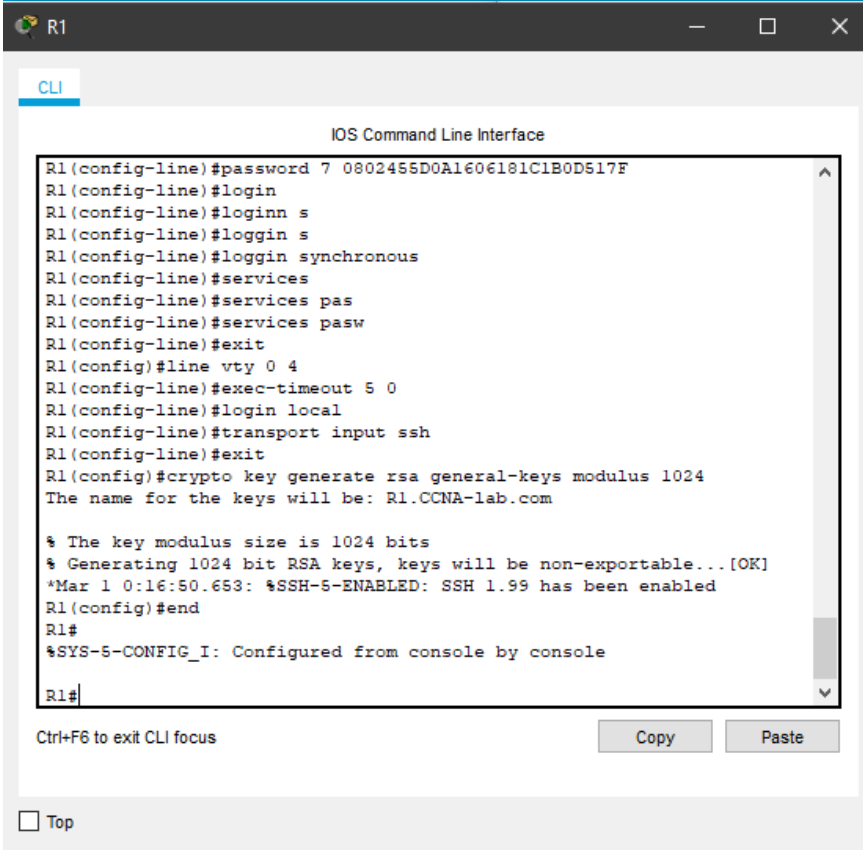
R1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0,
changed state to up
```

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R1

CLI

IOS Command Line Interface

```
R1(config-line)#password 7 0802455D0A1606181C1B0D517F
R1(config-line)#login
R1(config-line)#loginn s
R1(config-line)#loginn s
R1(config-line)#loginn synchronous
R1(config-line)#services
R1(config-line)#services pas
R1(config-line)#services pasw
R1(config-line)#exit
R1(config)#line vty 0 4
R1(config-line)#exec-timeout 5 0
R1(config-line)#login local
R1(config-line)#transport input ssh
R1(config-line)#exit
R1(config)#crypto key generate rsa general-keys modulus 1024
The name for the keys will be: R1.CCNA-lab.com

% The key modulus size is 1024 bits
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]
*Mar 1 0:16:50.653: %SSH-5-ENABLED: SSH 1.99 has been enabled
R1(config)#end
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#
```

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S1

CLI

IOS Command Line Interface

```
S1(config-line)#login
% Login disabled on line 1, until 'password' is set
% Login disabled on line 2, until 'password' is set
% Login disabled on line 3, until 'password' is set
% Login disabled on line 4, until 'password' is set
% Login disabled on line 5, until 'password' is set
S1(config-line)#exit
S1(config)#line vty 5 15
S1(config-line)#exec-timeout 5 0
S1(config-line)#login
% Login disabled on line 6, until 'password' is set
% Login disabled on line 7, until 'password' is set
% Login disabled on line 8, until 'password' is set
% Login disabled on line 9, until 'password' is set
% Login disabled on line 10, until 'password' is set
% Login disabled on line 11, until 'password' is set
% Login disabled on line 12, until 'password' is set
% Login disabled on line 13, until 'password' is set
% Login disabled on line 14, until 'password' is set
% Login disabled on line 15, until 'password' is set
% Login disabled on line 16, until 'password' is set
S1(config-line)#end
S1#
%SYS-5-CONFIG_I: Configured from console by console
```

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S2

CLI

IOS Command Line Interface

```
% Login disabled on line 4, until 'password' is set
% Login disabled on line 5, until 'password' is set
S2(config-line)#exit
S2(config)#console vty 5 15
^
% Invalid input detected at '^' marker.

S2(config)#line vty 5 15
S2(config-line)#exec-timeout 5 0
S2(config-line)#login
% Login disabled on line 6, until 'password' is set
% Login disabled on line 7, until 'password' is set
% Login disabled on line 8, until 'password' is set
% Login disabled on line 9, until 'password' is set
% Login disabled on line 10, until 'password' is set
% Login disabled on line 11, until 'password' is set
% Login disabled on line 12, until 'password' is set
% Login disabled on line 13, until 'password' is set
% Login disabled on line 14, until 'password' is set
% Login disabled on line 15, until 'password' is set
% Login disabled on line 16, until 'password' is set
S2(config-line)#end
S2#
%SYS-5-CONFIG_I: Configured from console by console
```

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S3

CLI

IOS Command Line Interface

```
S3(config-line)#login
% Login disabled on line 1, until 'password' is set
% Login disabled on line 2, until 'password' is set
% Login disabled on line 3, until 'password' is set
% Login disabled on line 4, until 'password' is set
% Login disabled on line 5, until 'password' is set
S3(config-line)#exit
S3(config)#line vty 5 15
S3(config-line)#exec-timeout 5 0
S3(config-line)#login
% Login disabled on line 6, until 'password' is set
% Login disabled on line 7, until 'password' is set
% Login disabled on line 8, until 'password' is set
% Login disabled on line 9, until 'password' is set
% Login disabled on line 10, until 'password' is set
% Login disabled on line 11, until 'password' is set
% Login disabled on line 12, until 'password' is set
% Login disabled on line 13, until 'password' is set
% Login disabled on line 14, until 'password' is set
% Login disabled on line 15, until 'password' is set
% Login disabled on line 16, until 'password' is set
S3(config-line)#end
S3#
%SYS-5-CONFIG_I: Configured from console by console
```

Ctrl+F6 to exit CLI focus

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Cisco Packet Tracer - D:\GitHub\7moUniversidad\Redes de Datos I\Semana7\Redes1-7moA-S7-Lab17.8.2-AyalaM.pka

File Edit Options View Tools Extensions Help

Activity Results Time Elapsed: 11:19:22

Congratulations Marco Ayala! You completed the activity.

Overall Feedback Assessment Items Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)
Network			
IT			
Default Gateway	Correct	3	IPv4 Host De
Default Gateway IPv6	Correct	1	IPv6 Host Ad
Ports			
FastEthernet0			
IP Address	Correct	2	IPv4 Host Ad
IPv6 Addresses			
2001:DB8:ACAD:2::2			
IP Address	Correct	1	IPv6 Host Ad
Prefix Length	Correct	1	IPv6 Host Ad
Link Local	Correct	1	Ip
Subnet Mask	Correct	2	IPv4 Host Ad
R1			
Banner MOTD	Correct	1	Basic Device
DNS			
IP Domain Name	Correct	1	SSH Configu
IP Domain-Lookup	Correct	1	Basic Device
Enable Secret	Correct	1	Basic Device
Host Name	Correct	1	Basic Device
Login Options			
Blocking			
Attempts	Correct	1	Enhanced Lo
Duration	Correct	1	Enhanced Lo
Enabled	Correct	1	Enhanced Lo
Period	Correct	1	Enhanced Lo

Score : 128/128

Item Count : 82/82

Component	Items/Total	Score
Basic Device Configuration	17/17	17/17
Enhanced Login Security	9/9	9/9
IPv4 Host Addressing	6/6	12/12
IPv4 Host Default Gateway Configuration	3/3	9/9
IPv6 Host Addressing	9/9	9/9
Ip	3/3	3/3
Router Interface Configuration	3/3	3/3
Router Interface IPv4 Addressing	6/6	18/18
Router Interface IPv6 Addressing	9/9	9/9
SSH Configuration	5/5	6/6
Switch Management Interface Addressing	6/6	18/18
Switch Management Interface Configuration	3/3	3/3
Switch Management Interface Default Gateway	3/3	12/12

Close

PT Activity: 11:19:52

- Use the local user profiles for authentication.
- Create a user **Admin1** with a privilege level of 15 and use the encrypted password of **Admin1pa55**.
- Configure the console and VTY lines to log out after five minutes of inactivity.
- Block anyone for three minutes who fails to log in after four attempts within a two-minute period.

**Switch Configuration**

- Configure the device name according to the Addressing Table.
- Configure the SVI interface with the IPv4 address and subnet mask according your addressing scheme.
- Configure the default gateway.
- Disable DNS lookup.
- Assign **Ciscoenpa55** as the encrypted privileged EXEC mode password.
- Assign **Ciscoconpa55** as the console password and enable login.
- Configure the console and VTY lines to log out after five minutes of inactivity.
- Encrypt all plaintext passwords.

**Connectivity Requirements**

- Use the web browser on the Staff, Sales, and IT PCs to navigate to **www.cisco.pka**.
- Use the web browser on the Staff, Sales, and IT PCs to navigate to **www.cisco6.pka**.
- All PCs should be able to ping all other the devices.

Time Elapsed: 11:19:52 Completion: 100%

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