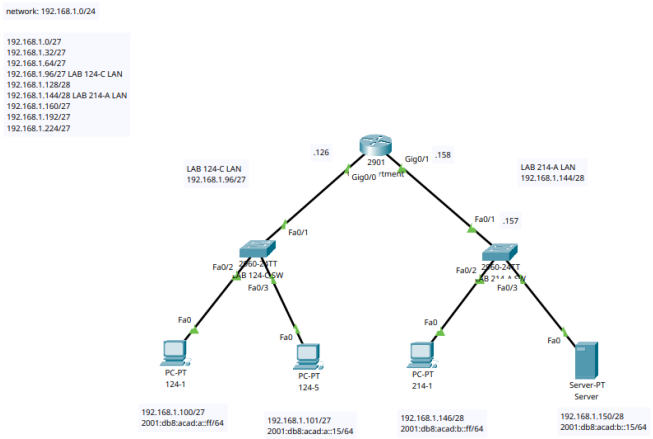
CCNA Practice PT Skills Assessment Configuration ITN

Device	Interface	IPv6 Address/Mask	IPv4 Address/Mask	Default Gateway
CS Department	G0/0	2001:db8:acad:a::1/64	192.168.1.126/27	N/A
		fe80::1		N/A
	G0/1	2001:db8:acad:b::1/64	192.168.1.158/28	N/A
		fe80::1		N/A
LAB 214-A Switch	SVI		192.168.1.157/28	192.168.1.158/28
124-1	NIC	2001:db8:acad:a::ff/64	192.168.1.100/27	192.168.1.126/27 fe80::1
124-5	NIC	2001:db8:acad:a::15/64	192.168.1.101/27	192.168.1.126/27 fe80::1
214-1	NIC	2001:db8:acad:b::ff/64	192.168.1.146/28	192.168.1.158/28 fe80::1
Server	NIC	2001:db8:acad:b::15/64	192.168.1.150/28	192.168.1.158/28 fe80::1



CONFIGURATION OF CS DEPARTMENT ROUTER

a. Configure the router with all initial configurations

1. **Configure the router hostname:**
   Hostname CS-Department
2. **Protect device configurations from unauthorized access with the encrypted privileged EXEC password:**
   Enable secret CiscoCCNA7
3. **Secure all access lines into the router (console and VTY):**
   Line console 0
   Password CiscoCCNA7
   Login
   Exit
   Line vty 0 4
   Login local
   Transport input ssh
   Exit
4. **Require newly entered password to have a minimum length of 10 characters:**
   Security password min-length 10
5. **Prevent all password from being viewed in clear text in configuration files:**
   Service password-encryption
6. **Configure a banner warning message for unauthorized users:**
   Banner motd #UNAUTHORIZED ACCESS PROHIBITED!#
7. **Configure the router to only accept secure in-band management connection:**
   Ip domain-name csdept.local
   Crypto key generate rsa
   1024
   Ip ssh version 2
8. **Configure local user authentication for SSH connections:**
   Username netadmin secret CiscoCCNA7

b. Configure the two Gigabit Ethernet interfaces

1. **Configure g0/0 interface (LAB 124-C LAN):**
   Int g0/0

*Description *Connection to LAB 124-C LAN**
Ip address 192.168.1.126 255.255.255.224
Ipv6 address 2001:db8:acad:a::1/64
Ipv6 address fe80::1 link-local
no sh
Exit

2. **Configure g0/1 interface (LAB 214-A LAN):**
   Int g0/1
   *Description *Connection to LAB 214-A LAN**
   Ip address 192.168.1.158 255.255.255.240
   Ipv6 address 2001:db8:acad:b::1/64
   Ipv6 address fe80::1 link-local
   No sh
   Exit

Enable IPv6 routing:

Ipv6 unicast-routing

Save the configuration:

Copy running-config startup-config

CONFIGURATION OF LAB 214-A SWITCH

a. Configure VLAN 1 as the SVI

Int vlan 1

*Description *Managment VLAN for LAB 214-A**

Ip address 192.168.1.157 255.255.255.240

No sh

Exit

b. Configure IPv4 addressing according to table

Ip default-gateway 192.168.1.158

c. Be sure that the switch is able to accept connections from hosts on other networks:

Telnet access:

Hostname LAB-214A-SW

Service password-encryption

Banner motd #AUTHORIZED ACCESS ONLY!#

Enable secret CiscoCCNA7

Secure console and VTY lines:

Line console 0

Password CiscoCCNA7

Login

Exit

Line vty 0 4

Password CiscoCCNA7

Login

Transport input telnet

Exit

d. save the configuration

Copy running-config startup-config