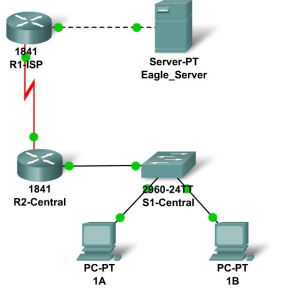
**Lab 18**

**11.6.1: Skills Integration Challenge-Configuring and Testing the Lab Network**

**Topology Diagram**

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**Addressing Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device** | **Interface** | **IP Address** | **Subnet Mask** | **Default**  **Gateway** |
| **R1-ISP** | **Fa0/0** |  |  | N/A |
| **S0/0/0** |  |  | N/A |
| **R2-**  **Central** | **Fa0/0** |  |  | N/A |
| **S0/0/0** |  |  | N/A |
| **PC 1A** | **NIC** |  |  |  |
| **PC 1B** | **NIC** |  |  |  |
| **Eagle**  **Server** | **NIC** | 192.168.3.77 | 255.255.255.240 |  |

### R1-ISP should have a static route in the following format:

### ip route [*R2-Central LAN network address*] [*R2-Central LAN subnet mask*][*R2-Central serial interface address*]

### The following login passwords should all be set to "cisco" (no quotes): enable secret, console, and Telnet. The banners should say \*\*This is lab router R1-ISP. Authorized access only.\*\*

**For Banner:** Router>enable

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname R1-ISP

R1-ISP(config)#banner motd %

Enter TEXT message. End with the character '%'.

\*\*This is lab router R1-ISP. Authorized access only.\*\* %

**For Password:**

R1-ISP(config)#enable secret cisco

R1-ISP(config)#line console 0

R1-ISP(config-line)#password cisco

R1-ISP(config-line)#login

R1-ISP(config-line)#line vty 0 15

R1-ISP(config-line)#password cisco

R1-ISP(config-line)#login

R1-ISP(config-line)#exit

For Ip address in fast ethernet:

R1-ISP(config)# int fa0/0

R1-ISP(config-if)#ip address 192.168.3.79 255.255.255.240

Bad mask /28 for address 192.168.3.79

R1-ISP(config-if)#no shutdown

R1-ISP(config-if)#

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

R1-ISP(config-if)#exit

**For Ip address in serial port:**

R1-ISP(config)#int s0/0/0

R1-ISP(config-if)#ip address 192.168.3.98 255.255.255.252

R1-ISP(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down

R1-ISP(config-if)#clock rate 64000

This command applies only to DCE interfaces

R1-ISP(config-if)#exit

**For ip route:**

R1-ISP(config)#ip route 192.168.3.0 255.255.255.224 192.168.3.97

R1-ISP(config)#exit

copy running-config statup-config

For R2 central:

#ip address 192.168.3.30 255.255.255.224

#int s 0/0/0

Router(config-if)#ip address 192.168.3.97 255.255.255.252

ip route 0.0.0.0 0.0.0.0 192.168.3.98