5.1 Lab: Install an Enterprise Router

Candidate: COMPTIA COMPTIA ()
Time Spent: 00:16

Score: 0%

Task Summary

Required Actions

- ✕ Add the router to the empty slot near the top of the rack
- ✕ Insert an SFP Transceiver (RJ45) into the WAN port on the router
- ✕ Insert an SFP Transeiver (LC) into the LAN 1-4 ports Show Details
- ✕ Connect the router to one of the UPS devices' critical load bank outlets. Use the AC Power Cable with C14 end
- ✕ Connect the LAN 1 port on the router to ports 1 and 2 on the fiber patch panel using an SC to LC fiber cable
- ✕ Connect the LAN 2 port on the router to ports 3 and 4 on the fiber patch panel using an SC to LC fiber cable
- ✕ Connect the LAN 3 port on the router to ports 5 and 6 on the fiber patch panel using an SC to LC fiber cable
- ✕ Connect the LAN 4 port on the router to ports 7 and 8 on the fiber patch panel using an SC to LC fiber cable
- ✕ Connect the WAN port on the router to a port on the pfSense device at the top of the rack

Explanation

Complete this lab as follows:

1. Add the router to the empty slot near the top of the rack.
   a. Under Shelf, expand **Routers**.
   b. Drag the ***Router*** to the first open space at the top of the rack in the Workspace.
2. Insert an SFP Transceiver (RJ45) into the WAN port on the router.
   a. Under Shelf, expand **Adapters**.
   b. Drag the ***SFP Transceiver (RJ45)*** to the WAN port on the router.
3. Insert an SFP Transceiver (LC) into the LAN 1-4 ports.
   a. Under Shelf, expand **Adapters**.
   b. Drag an ***SFP Transceiver (LC)*** to each of the LAN 1-4 ports on the router.

4. Use the AC power cable with C14 end to connect the router to a critical load bank outlet on one of the UPSs.
   a. Above the rack, select **Back** to switch to the back view of the rack.
   b. Under Shelf, expand **Cables**.
   c. Select the ***AC Power Cable with C14 end***.
   d. From the Selected Component pane, drag the ***AC Power Connector*** to the router and the ***AC Power Connector C14*** to a critical load bank outlet on a UPS.
5. Connect the LAN 1 port on the router to ports 1 and 2 on the fiber patch panel using an SC to LC fiber cable.
   a. Above the rack, select **Front** to switch to the front view of the rack.
   b. Select the ***SC to LC fiber cable***.
   c. From the Selected Component pane:
      - Drag the ***Duplex LC Fiber Connector*** to the LAN 1 port on the router.
      - Drag the ***Fiber Optic SC Connector (A)*** to port 1 on the fiber patch panel.
      - Drag the ***Fiber Optic SC Connector (B)*** to port 2 on the fiber patch panel.
6. Connect the LAN 2 port on the router to ports 3 and 4 on the fiber patch panel using an SC to LC fiber cable.
   a. Under Cables on the Shelf, select the ***SC to LC fiber cable***.
   b. From the Selected Component pane:
      - Drag the ***Duplex LC Fiber Connector*** to the LAN 2 port on the router.
      - Drag the ***Fiber Optic SC Connector (A)*** to port 3 on the fiber patch panel.
      - Drag the ***Fiber Optic SC Connector (B)*** to port 4 on the fiber patch panel.
7. Connect the LAN 3 port on the router to ports 5 and 6 on the fiber patch panel using an SC to LC fiber cable.
   a. Under Cables on the Shelf, select the ***SC to LC fiber cable***.
   b. From the Selected Component pane:
      - Drag the ***Duplex LC Fiber Connector*** to the LAN 3 port on the router.
      - Drag the ***Fiber Optic SC Connector (A)*** to port 5 on the fiber patch panel.
      - Drag the ***Fiber Optic SC Connector (B)*** to port 6 on the fiber patch panel.
8. Connect the LAN 4 port on the router to ports 7 and 8 on the fiber patch panel using an SC to LC fiber cable.
   a. Under Cables on the Shelf, select the ***SC to LC fiber cable***.
   b. From the Selected Component pane:
      - Drag the ***Duplex LC Fiber Connector*** to the LAN 4 port on the router.
      - Drag the ***Fiber Optic SC Connector (A)*** to port 7 on the fiber patch panel.
      - Drag the ***Fiber Optic SC Connector (B)*** to port 8 on the fiber patch panel.
9. Connect the WAN port on the router to a port on the pfSense device at the top of the rack.
   a. Under Cables on the Shelf, select the ***Cat6a Cable***.
   b. From the Selected Component pane, drag one of the ***RJ45 Shielded Connectors*** to the WAN port on the router and the other to a port on the pfSense device above the router.