CSIS 330 – Lab 7: Packet Tracer

Connecting to a Wired and Wireless LAN

**Background:**

This Packet Tracer is a pre-programmed activity that includes embedded instructions as well as a partially built topology. Using the instructions that are embedded in the Packet Tracer file, you will complete this topology by selecting the appropriate cables and connecting them to the various devices.

Refer to the rubric in Canvas for the number of points allocated to each task in this lab.

**Assignment Instructions:**

**Parts 1-3 (Connecting Devices):**

To complete the connections part of this lab, refer to the instructions that are embedded within the Packet Tracer file for Parts 1 - 3.

**When you have completed cabling this network, save your Packet Tracer file using the naming convention used for this class:**

[your first initial + your last name] + “\_Lab7” (do not include the quotation marks)

For example, Joe Smith will save his file for this lab using the filename “JSmith\_Lab7”.

**Parts 4-5 (Verifying Connections and Examining Physical Topologies):**

Parts 4 and 5 of the Instructions require you to perform activities in Packet Tracer that can only be graded by submitting screen shots of your results and answers to questions. To help you to know when to take screen shots, Parts 4 and 5 are reproduced below with instructions regarding what screens to capture.

***[A Word template is also provided for your answers and screen shots.]***

**Part 4:**     **Verify Connections**

**Step 1:**     **Test the connection from Family PC to netacad.pka.**

a.     Open the **Family PC**command prompt and ping **netacad.pka**.

b.    Open the **Web Browser** and the web address [**http://netacad.pka**](http://netacad.pka).

**Take a screen shot of your output and paste it into the appropriate section (Screenshot #1) of the Word Answer Template provided.**

**Step 2:**     **Ping the Switch from Home PC.**

Open the **Home PC** command prompt and ping the **Switch** IP address of to verify the connection.

**Take a screen shot of your output and paste it into the appropriate section (Screenshot #2) of the Word Answer Template provided.**

**Step 3:**     **Open Router0 from Configuration Terminal.**

a.     Open the **Terminal** of **Configuration Terminal** and accept the default settings.

b.    Press **Enter** to view the **Router0**command prompt.

c.     Type **show ip interface brief** to view interface statuses.

**Take a screen shot of your output and paste it into the appropriate section (Screenshot #3) of the Word Answer Template provided.**

**Part 5:**     **Examine the Physical Topology**

**Step 1:**     **Examine the Cloud.**

a.     Click the **Physical Workspace** tab or press **Shift**+**P** and **Shift**+**L** to toggle between the logical and physical workspaces.

b.    Click the **Home City** icon.

### Answer the following question in the template provided.

c.     Click the **Cloud** icon. How many wires are connected to the switch in the blue rack?

d.    Click **Back** to return to **Home City**.

**Step 2:**     **Examine the Primary Network.**

### Answer the following question in the template provided.

a.     Click the **Primary Network** icon. Hold the mouse pointer over the various cables. What is located on the table to the right of the blue rack?

b.    Click **Back** to return to **Home City**.

**Step 3:**     **Examine the Secondary Network.**

### Answer the following question in the template provided.

a.     Click the **Secondary Network** icon. Hold the mouse pointer over the various cables. Why are there two orange cables connected to each device?

b.    Click **Back** to return to **Home City**.

**Step 4:**     **Examine the Home Network.**

### Answer the following two questions in the template provided.

a.     Why is there an oval mesh covering the home network?

b.    Click the **Home Network** icon. Why is there no rack to hold the equipment?

c.     Click the **Logical Workspace** tab to return to the logical topology.

**Final Step: Save your Template**

Save your Answer Template using the convention of [your first initial] + [your last name] + “\_Lab7”.

For example: Joe Smith will save his file template as JSmith\_Lab7.doc .

**Deliverables**:

**Submit your assignment by attaching your Packet Tracer file and your Answer Template to the appropriate assignment link in Blackboard. Both files must be uploaded to receive full credit for this assignment.**