**Lab 06 Submission Template**

**Name:** Click here to enter text.

**Student Number:** Click here to enter text.

# Task 0: (no marks but zero for the submission it’s missing)

Insert task0\_ip.jpg



# Task 3: Questions (1 Mark each)

1. .Open the Desktop command prompt on the PC and ping the server again. Use the capture forward button to move the packet to Router0. Click on the PDU and then the inbound PDU details tab.
   1. What is the value of the TTL field in the IP Header? Click here to enter text.
   2. What are the values of the Type and Code fields in the ICMP header? Click here to enter text.
2. Look at the Outbound PDU details tab and see if any of the values recorded in the above step have changed? What field and value (if any) changed? Click here to enter text.
3. Close the PDU information window. Use the capture forward button to move the PDU to the Server and back to Router0. . Click on the PDU and then the inbound PDU details tab.
   1. What is the value of the TTL field in the IP Header? Click here to enter text.
   2. What are the values of the Type and Code fields in the ICMP header? Click here to enter text.
4. What’s different between the Inbound and outbound PDUs? Click here to enter text.
5. What’s different in the ICMP header between this PDU and the one you observed in Step 4 Click here to enter text.

# Task 4: Questions (1 mark each)

5. Examine this PDU (outbound PDU details) and record the following:

* 1. Source IP: Click here to enter text.
  2. Destination IP Click here to enter text.
  3. ICMP Type: and Code: Click here to enter text.
  4. What comes after (below) the ICMP header? Describe what it is. Hint: examine the inbound PDU at Router0 . Click here to enter text.
  5. What was the final device for the PDU? (a new PDU will be created at the final device) Click here to enter text.
  6. In the PDU that was generated, what are the source and destination IPs? Source: Click here to enter text.Destination: Click here to enter text.

1. How far does the PDU travel? Click here to enter text.
2. What are the ICMP type and code values of the returned PDU? Click here to enter text.
3. What meaning does the ICMP packet have? Click here to enter text.
4. Use the Capture/Forward button to move the PDU to the server
   1. What type of PDU is moving towards the server (look in the Event List)? Click here to enter text.
5. At the Server a new PDU will be created.
   1. What type is it? Click here to enter text.
   2. What are the ICMP type and code values of the returned PDU? Click here to enter text.
   3. What meaning does the ICMP packet have? Click here to enter text.

**Don’t forget to upload your completed Packet Tracer activity file. This need to be done as a separate file**