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A close up of a sign

Description automatically generated

**COMP 4320**

**Introduction to Computer Networks**

Project #: Lab 2

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10/6/2025

# Executive Summary

Format:

* Font: Arial
* Font Size: 11
* Spacing: Double

This section should begin on a new page. The executive summary should include a summary of the findings and decisions

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# List of Tables

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# 1 Part 1 – TCP

## 1.1 Beginning Questions

1. My IP address is 172.17.48.138 and my port number is 64701.A screenshot of a computer

AI-generated content may be incorrect.

2. The server IP address is 217.21.95.185. It’s port number is 80.A screenshot of a computer

AI-generated content may be incorrect.

## 1.2 TCP Basics

1. The segment that initiates the connection has a relative sequence number of 0. It can be identified by how it says [SYN] and Seq=0 in the info.A screenshot of a computer

AI-generated content may be incorrect.

2. The sequence number of the reply is 0. The value of the acknowledgement field is 1. Since the seq value was 0, the ack value was +1, resulting in the value 1. [SYN, ACK] in the info identifies it as a SYNACK segment.A screenshot of a computer screen

AI-generated content may be incorrect.

3. The sequence number of the segment containing the POST command was 149201.

A screenshot of a computer

AI-generated content may be incorrect.

4.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Segment | Seq | Time | Ack time | RTT | EstimatedRTT |
| 271 | 149201 |  |  |  |  |
| 272 | 220 |  | 0.40908400 |  |  |
| 273 |  |  |  |  |  |
| 274 |  |  |  |  |  |
| 275 |  |  |  |  |  |
| 276 |  |  |  |  |  |

5.

## 1.2 TCP Segments

# 2 Part 2 - UDP

### 2.2.1 First Sub-subheading

### 2.2.2 Second Sub-subheading

Avoid any further divisions under the sub-subheading. Otherwise, the number of divisions becomes distracting and difficult to follow.

# 3 Part 3 - IPv4 vs IPv6 Traceroute

# 4 Acknowledgements

This section allows authors to acknowledge contributors and other sources that are not appropriate to list in the references section.

# 5 References

This is the last section of the report, prior to any appendices. The references should not be double-spaced, but single-spaced. For a technical report, use the CSE style.

[1] Reference 1 information.

[2] Reference 2 information.

[3] Reference 3 information.

# 6 AI Use Reflation Statement

As part of this assignment, you are required to explain how Artificial Intelligence (AI) tools were used in your work. For this you need to describe:

* Purpose of Use – Why you chose to use AI (for example: brainstorming, outlining, checking grammar, simplifying complex ideas, or generating examples).
* Extent of Use – To what degree AI contributed (for example: “I used AI to help refine my outline, but the analysis and arguments were entirely my own”).
* My Contribution – How I ensured the final assignment represents my own original thinking, understanding, and interpretation.

Reflections – What I found useful, what limitations I noticed, and how AI influenced my learning process.

**By writing this reflection, I acknowledge that AI is a support tool, not a substitute for my own effort, and I take full responsibility for the final submission.**