UFO Exam - Part 4

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1   Introduction

The following document will cover a few recommendations to the article "*TCP & UDP comparison*"[1]. The following recommendations are considerations regarding error handling and another platform to measure the performance difference.

2   Recommendations

2.1   Regarding Error Handling

You talk about it slightly in section 3 *TCP and UDP differences*, when you mention that UDP does not guarantee the packets arrival nor the packets arriving in correct order.

Therefore i would recommend that you should read about how TCP does its error checking and error recovery. Guru99 has made an article[2] about this topic, where they compare the features of both UDP and TCP.

I believe that your article will benefit from adding a subsection, that explains more in-depth, how the two protocols handles errors. It doesn't have to be a large section, simply write about a few pointers.

In addition to the Guru99 article, you could also take a look at an article written by GeeksforGeeks[3]. This article explains how the error control in TCP is done with three simple techniques.

2.2   Regarding Future Works

In your section 5 *Future Work*, you talk about what would have liked to investigate and experimented on if you were to elaborate further on the subject. An addition to these ambitions could be to test the performance difference on the platform OpenVPN.

OpenVPN is a virtual private network system. This platform allows you to implement techniques, to create secure point-to-point or site-to-site connections and much more. A couple of students at the University of Mauritius have made an article[4] on this subject, which I think would interest you and be a nice addition to your article.

References

[1] Jesper Rusbjerg and Nikolai Perlt. *TCP & UDP comparison.* [Accessed 04-01-2021]. URL: https://cphbusiness.mrooms.net/mod/resource/view.php?id=288646.

[2] *TCP vs UDP: What's the Difference?* [Accessed 04-01-2021]. URL: https://www.guru99.com/tcp-vs-udp-understanding-the-difference.html.

[3] *Error Control in TCP.* [Accessed 04-01-2021]. URL: https://www.geeksforgeeks.org/error-control-in-tcp/.

[4] Pierre Clarel Catherine Irfaan Coonjah and K. M. S. Soyjaudah. "Experimental Performance Comparison betweenTCP vs UDP tunnel using Open-VPN". In: (). [Accessed 04-01-2021]. URL: https://www.researchgate.net/publication/304287577_Experimental_performance_comparison_between_TCP_vs_UDP_tunnel_using_OpenVPN.