COMP1047 − Computer Networks − Lab 4

Lab 4: Analyzing Wireless Networks

The objective of this practical lab activity is to become familiar with the analysis of the performance of a network system via simulations. In this Lab, in the first quarter you will continue the previous work and analyze the results obtained by simulations. Later on, you need to run the wireless topologies and obtain the trace files. After getting the trace files you need to analyse the trace files using AWK scripts.

You will be provided with the following files

   i.   ns-simple-trace.tcl
  ii.   wireless.tcl
 iii.   performance.tcl

    In this lab, you need to generate the wireless trace and analyze it. You need to write AWK and Shell script for trace analysis.

In the next Lab, you will enhance the simulation scripts and analyze the results on random topology.

IMPORTANT. At the end of each lab, you must complete a **analysis of the wireless** network. This first version must include all your results of the Lab: Observations, numerical values, and all figures with plots. Also, the tcl script of the simulation and some texts that explain the solution you implemented in the script to simulate the required topology and network parameters, plus the result of one simulation run.