

Network training

Maël Auzias

Fall 2014

Contents

1	Introduction	2
1.1	Topologies	2
1.2	TCP connection	2
1.3	TCP or UDP ?	2
1.3.1	Sensors	2
1.3.2	Website	2
1.4	Is FTP secure ?	2

1 Introduction

1.1 Topologies

Give an known example, or explain one, for each of this network topologies:

1. Bus,
2. Star,
3. Fully connected.

1.2 TCP connection

According to TCP ([RFC761 \(January 1980\)](#)) , what are the sequence used in order to establish a connection between two hosts ?

1.3 TCP or UDP ?

1.3.1 Sensors

You are creating a network application using sensors. The sensors can receive settings (rate of measurement, range...) and they continuously send their measurements.

1. Should settings' packets be sent with UDP or TCP ? Why ?
2. Should measurements packets be sent with UDP or TCP ? why ?

1.3.2 Website

Does HTTP ([RFC2616 \(June 1999\)](#)) rely on TCP or UDP ?

1.4 Is FTP secure ?

According to the file [ftp.pcap](#) is FTP secure ? How could it be more secure ?