Netwhat

Summary: *This project is an introduction to network problematics*

Contents

Chapter I

Introduction

`Netwhat` will allow you to discover the network and to understand how it works. This will allow you to understand how some things you already use in your everyday life, without even knowing it.

Chapter II

General instructions

`Netwhat` is a QCM project. This project will evaluate your network knowledge. You can now start reading network lessons on internet, and check your knowledge on online questonnaires. Once done and when you are ready to pass our questionnaire, you will be able to go to: netwhat.42.fr.

Chapter III

Mandatory part

- first of all, you should know a few things:
  - What is an IP address
  - What is a Netmask
  - What is the subnet of an IP with Netmask
  - What is the broadcast address of a subnet
  - What are the different way to represent an ip address with the Netmask
  - What are the difference between public and private IPs
  - What is a class of IP address
  - What is TCP
  - What is UDP
  - What are the network layers
  - What is the OSI model
  - What is a DHCP server and the DHCP protocol
  - What is a DNS server and the DNS protocol
  - What are the rules to make 2 devices communicate using IP addresses
  - How routing is working with IP
  - What is a default gateway for routing
  - What is a port from an IP point of view and what is it used for when connecting to an other device

- Go to the website: `netwhat.42.fr`. This site will provide access to the network quiz.

- Once connected, you will have access to the quiz interface. You can only pass it once per try, and you will have to retry the project to be able to retry the quiz. At the end an encrypted key will be generated. This key will be used during your evaluation (see Turn-in and peer-evaluation).

Chapter IV

Turn-in and peer-evaluation

To submit your work, paste the key, without modifying it, in a file `answer.txt` in the root of the git repo given when subscribing to the project. Your evaluator will use that key to verify your answers during defence.