



## NET0183 Networks and Communications

Assignment 2 Value **5%**

Deadline: 11:00am Monday, April 12th

Eindagi: 11:00f.h. Mánudagur, Apríl 12.

Late assignments will not be marked.

### **Scenario: network company seeks new graduate**

A network company wishes to employ a new computer science graduate. As part of the screening process, the company requires each candidate to give a presentation. Candidates may choose one topic from the following list of topics:

- all you want to know about RFC 793 Transmission Control Protocol
- all you want to know about RFC 3118 Authentication for DHCP Messages
- all you want to know about RFC 792 INTERNET CONTROL MESSAGE PROTOCOL
- all you want to know about IPv6
- all you want to know about becoming a certified CISCO engineer
- all you want to know about managing a small home or office network
- all you want to know about CISCO IOS
- all you want to know about firewalls
- all you want to know about using the **netstat** tool
- all you want to know about using the **OPNET IT Guru Academic Edition** tool
- all you want to know about using the **JPerf** tool
- all you want to know about using the **NetStumbler** tool
- all you want to know about using the **nmap** tool
- all you want to know about using the **Snort** tool
- real measures of TCP slow start using the **Wireshark** tool

Each presentation will last 10 minutes and the teacher will ask one question. Each presentation should be made up of ten slides. Each slide of the presentation should include some “Notes” . These “Notes” should represent what you might say while the slide is on display. Keep each note to 120 words or less. Each slide should be numbered, dated, and have your name.

### **Presentation Structure**

#### **Title** (0,5%)

The title slide should be <topic chosen>. The title slide must contain your name, the name of the course (NET0183 Networks and Communications) and the following statement: “This assignment is all my own work. This work has not been submitted for assessment in any other context. I have not knowingly allowed others to copy my work.” By including this statement, you are agreeing with it. If you plagiarize material your degree will be at risk.



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**Slides 2-9** (each 0,5%). Approve the content coverage beforehand with the teacher. E.g. slide 2 will be a definition of **a** from Webopedia, slide 3 will be a graph of **b**, slide 4 will be a 2 column table showing a comparison of **c**, slide 5 will be a block diagram overview of **d**, ...

### **Conclusions** (0,5%)

State any conclusions you reach.

### **Appendix: Sources** (-1% if not present)

Provide a list of your sources of information: articles, urls of websites, etc. (**possibly 2 slides**)

Note: do not discuss the Appendix during your presentation.

### **Submission instructions**

Submit a paper copy of your presentation. In PowerPoint select to print "Notes Pages". Print 2 logical slides and notes to each physical page. One corner should be stapled. Do not enclose your submission in any folder or binder. Submit your paper copy by 11am on Monday 12<sup>th</sup> April (or before). Also submit electronically via e-mail to [andy@unak.is](mailto:andy@unak.is) a copy of your presentation (Powerpoint). The header of your e-mail message must be: "NET0183 Assignment 2 <your name>".

### **Assessment**

The breakdown per slide is indicated above. Attendance at the presentation session is compulsory. A student scores zero if he/she does not present. There is a 0,2% deduction for missing another student's presentation. There is a 0,2% deduction for any slide missing some notes. Marks will also be lost for (i) failing to keep to slide order and content, or (ii) failing to keep to time.

### **Advice**

Use the NET0183 [website](#), [Wikipedia](#), <http://www.google.is/> and <http://scholar.google.is/> to help you locate information.

You are permitted **two** e-mail or phone or office consultations with the teacher. One consultation is **compulsory**, to allow the teacher to approve the content coverage for slides 2-9.

Expect to work at least two hours for every 1% value of this assignment, i.e. 10 hours.

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föstudagur, 26. mars 2010

<http://staff.unak.is/not/andy/Networks0910/networks.htm>