Final Exam Prep

IT-S448 / ITMS448/548

Autumn 2014

Final Exam Format

Format on paper is the same as in the midterm

   Booklet of several pages stapled together

2 hours

Time & Date: 2-4 pm on Monday 08 Dec. at Rice

10 problems

Return booklet at end of exam

Final Exam Coverage

Exam material coverage

Mostly since the midterm

But will include some questions with well-known answers on material prior to midterm

Topics covered are in both readings and lectures

Passwords and Password Cracking

Understand the types of password cracking and how they work at a high level

Know why 7 characters and 15 characters are important number for password lengths for Windows OSs up to XP.

Be able to look at different passwords presented to you and decide which are hard to crack and which aren't

3-Way Handshake

There _**will**_ be a TCP 3-way handshake question on the exam

The exam is already written and it is there

NOW ANSWER THE FOLLOWING QUESTION:

What question **will** be on the exam?

ANSWER: TCP 3-way handshake question

Authentication & Identification

Understand high level what factors can be used for personal and also your device identification

Understand what parameters can be used to authenticate your or your device's identity

Be able to provide examples of types of authentication

Know about PPP-based authentication protocols

Know something about the underlying frame format and its delimiters

Certificates

Certificate Authorities

Know why they are used

Know how they work

Entrust and Verisign types

Understand how Kerberos works

What the KDC consists of

The concepts of certificates and that there are two of them

The process of a client getting the desired service from a server

Not the 3 heads, mane of snakes or the serpent's tail

Projects

There **_will_** be a multi-part question on the team projects

So you will need to be slightly familiar at a very high level with each of the projects

Disclaimers

This set of final exam preparation slides should not be expected to tell the student <u>exactly</u> what is and is not on the final exam

Instead it is intended to provide general guidance

There may be items not mentioned here that are on the final exam

But there will be nothing on the final exam that is not covered in either the slides or readings

This set of slides may be updated

If it is updated, I will post and announcement and send email