CSCI-759
Topics In Systems:
Public Key Infrastructure and Network Security

Taejoong (Tijay) Chung
Introduction

Hello

- Welcome to CSCI-759

  - Are you in the right classroom?

  - Okay, good.

- Who am I?

  - Professor Taejoong (Tijay) Chung

  - tjc@cs.rit.edu

  - Office Hours: Tue 2:00pm — 3:30pm (GOL-3525) and email to schedule an appointment

Online Resources

- https://taejoong.github.io/courses/csci-351/

  - Please see the schedule

- Class forum is on Mycourses

  - Sign up today!

- When in doubt, post to Mycourses

  - Mycourse is preferable to email

  - Use #hashtags (#homework1, #lecture2, #project3, etc.)

Teaching Style

- I am a network researcher

  - Things make sense to me may not make sense to you

  - I'm a non-native speaker, if something doesn't make sense to you please ask me.

- Solution: ask questions!

  - Seriously, ask questions

  - Standing up here in silence is very awkward

  - I will stand here until you answer my questions

- Help me learn your names

  - Say your name before each question

Logistics

- Blended Offline (Tue) and Online (Thu) class

  - Two paper presentations on Tuesdays

  - More discussions on Thursdays

Presentation

- Each students need to spend 30 minutes to present a top-tier paper including questions and answers

  - Paper will be randomly assigned to each student

- Students are strongly encouraged to read the paper in advance and actively participate the in-class discussion

  - I will ask questions

- Presenters must upload their presentation material one day before the class (i.e., Due date is 23:59:59pm Sunday)

Discussions

- 7 students need to discuss the paper presented on Tuesday class in *online* session (Every Thursday)

- 3 students for discussing pros, 3 students for against and 1 student to summarize the discussion

- Will be done on Mycourses

Research Project

- Students are required to pick the research topic related to the class and perform their own research project

  - Bring your topic and discuss with the professor before 02/14

    - Mail me to arrange the schedule or visit me during my office hour

  - Need to submit a short-paper at 04/25

  - Must be written in Latex. The form will be provided.

Grading

Paper presentation	35%
Paper discussions	20%
Research projects	20%
Participation	25%

Prerequisites

- Some background knowledges about how Internet works

  - CSCI-351

  - Slides are available here:

    - https://taejoong.github.io/courses/csci-351/

PKI
Public Key Infrastructure

- Networking protocols

  - DNS + Security

  - HTTP + Security

  - BGP + Security

  - Email + Security

  - Others

Other questions

- https://taejoong.github.io/courses/csci-759