CS 452/552 Introduction to Cloud Computing

Instructor: Kartik Gopalan

Course Information

• Class location: SL 206

Class date/time: Tue & Thu 1:15PM-2:40PM

• Instructor: Kartik Gopalan

Office: Q-17 ENGB

Office hours: Tue-Thu 10am-11am

• TA: Yu Sun

Office hours: Wed & Fri 10:30am-12noon

- Course email: <u>cloud-course@binghamton.edu</u>
 - This email reaches both Instructor and TA
- Course Zoom link: https://binghamton.zoom.us/j/99523961933
 - Password: 552
 - This link is for both class and office hour.
- Join Google Classroom using your Binghamton account
 - https://classroom.google.com
 - Use class code 2qqz6yb

Coverage of Topics

- Cloud computing introduction
- Virtual Machines
- Containers
- Confidential computing
- Micro-services and orchestration
- Serverless computing
- NoSQL Databases
- · Big Data programming frameworks
- · Network Virtualization: Software-defined networks
- Storage Virtualization: Block and Object Storage
- · Other topics as appropriate

Course Structure

- 25% for midterm (Time: TBD, Loc: in class)
- 25% for final exam (Time: TBD, Loc: TBD)
- 50% for 3 or 4 projects

Course Material

- Lecture slides and papers posted on the Google Classroom
- Recommended textbook (not required):
 - Andrew Tanenbaum, Modern Operating Systems, 4th edition
 - Another good book is Operating Systems: Three Easy Pieces, Remzi H. and Andrea C. Arpaci-Dusseau (available online)

Resources you need

- Access to Google Classroom
 - https://classroom.google.com/
 - Use class code : 2qqz6yb
 - Join using your Binghamton email address
 - For class materials, announcements, assignment submissions, and online homework
- BU Email account
 - <yourid>@binghamton.edu
 - For communicating with me and TA
 - For receiving announcements
- Google Cloud Platform or some other VM infrastructure
 - Details to follow.
- CS LDAP Account
 - To log into machines in G-7, N-01, and <u>remote.cs.binghamton.edu</u>

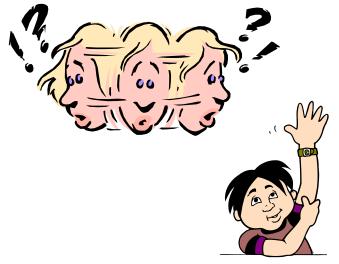
Students with disabilities

- Please contact the SSD office for accommodations.
 - https://www.binghamton.edu/ssd/
 - Phone: 607-777-2686 (Voice, TTY)
 - Fax: 607-777-6893
 - Email: ssd@binghamton.edu
 - Office Location: University Union, Room 119
- Talk to them soon. They will send me a letter listing any accommodations required.
- Don't hesitate to tell me if some aspect of the class is not working for you.
 - I will promptly work with you and SSD to fix it.

Asking questions

- Email us : cloud-course@binghamton.edu
- Attend online office hours
- Make Google your friend
 - Can't beat the response time!
- Ask early
 - Don't wait till the last minute
- Direct feedback is always welcome.
 - Especially in the middle of the semester







Stressed?

- Maintain perspective
- If you are overwhelmed with this course, talk to me.
- Campus resources:
 - University Counseling Center:
 - https://counseling.binghamton.edu/
 - 607-777-2772
 - Dean of Students Office:
 - https://www.binghamton.edu/dean-of-students/index.html
 - 607-777-2804
 - Interpersonal Violence Prevention:
 - https://www.binghamton.edu/centers/varcc/ivp/index.html
 - 607-777-3062
 - Office of International Student and Scholar Services:
 - https://www.binghamton.edu/international/student-scholar-services/index.html
 - 607-777-2510

Academic Integrity

- Please read the policies on course web page
- Do your own work.
- Don't do others' work.
- Don't ask/give solutions, including code.
- Don't get code from the Internet.
- Keep your code/assignments private
- Dishonesty →
 - You can get an F grade
 - Be referred to the Dean's office

Attendance Policy

- Attendance is mandatory
 - either in-person or synchronously on zoom.
- Attendance will be taken
 - via a Google Form during class
- Maximum three unexcused absences allowed.
- More than three absences may reduce your final grade by one level.
 - For example, A will become A- or B will become B-

Sickness Policy

- If you feel sick, please do not come to the class.
 - Please attend via zoom, if you can.

• If you are coughing or sneezing, please consider wearing a mask as a courtesy to others.

That's it for today! Happy semester!