Advanced Topics in IP Networks Lecture 13

Lecture by Dr. Anat Bremler-Barr Typeset by Steven Karas

2019-01-10 Last edited 20:36:05 2019-01-10

Disclaimer These notes are based on the lectures for the course Advanced Topics in IP Networks, taught by Dr. Anat Bremler-Barr at IDC Herzliyah in the fall semester of 2018/2019. Sections may be based on the lecture slides prepared by Dr. Anat Bremler-Barr.

1 Agenda

• Projects

2 Homework

The p4 project is due on Sunday.

On that topic, the current direction is that there are dozens of startups that sell p4 hardware, but the large companies have not yet started.

3 Project

3.1 Requirements

- A github repo with the project code
- A report detailing the project. In the format of a conference paper (2-4 pages).
 - 1. Introduction
 - 2. Related Work
 - 3. Technical Details
 - 4. Evaluation/Discussion
 - 5. Conclusion
 - 6. Bibliography minimum of two citations one for the paper, and one for the github repo
- Video record the project running and show the results
- Presentation all members must present. 20 minutes. As a matter of course, we can reuse sections from the original slides with proper attribution.

3.2 Timeline

On January 17th, project registration will open. At most two groups are allowed to work on a proposed project. Outside proposals are welcome, but should come from the list of approved conferences.

No later than January 31st, the project proposal should be submitted. The proposal should be no longer than two pages, and include technical details on how to implement the project. No grade will be given on the proposal.

No later than February 16th, a final decision will be made regarding the proposal.

No later than April 1st, projects must be submitted and presentation scheduled.

Each of these stages may be done earlier with no benefit or penalty.

4 Fin

The rest of the lecture covered the various project proposals. Have a fun winter break!

References

- [1] Mark Crovella and Balachander Krishnamurthy. *Internet Measurement: Infrastructure, Traffic and Applications*. John Wiley & Sons, Inc., New York, NY, USA, 2006.
- [2] James F. Kurose and Keith Ross. Computer Networking: A Top-Down Approach Featuring the Internet. Addison-Wesley Longman Publishing Co., Inc., Boston, MA, USA, 2nd edition, 2002.
- [3] George Varghese. Network Algorithmics,: An Interdisciplinary Approach to Designing Fast Networked Devices (The Morgan Kaufmann Series in Networking). Morgan Kaufmann Publishers Inc., San Francisco, CA, USA, 2004.