



Virtualization and Cloud Computing

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Schedule

Week 11	Week 12
Introduction to Cloud Computing	Fundamentals of Cloud
Week 13	Week 14
IaaS: VM / Container	PaaS: Hadoop / Spark
Week 15	Week 16
Experiment 1	Experiment 2
Week 17	Week 18
Cloud Networking: Inter/intra Datacenters	Group Report

Exercises

- Programming assignments
 - Part I: 30%
 - Part II: 30%
- Group report: 40%.

- Homepage: <http://clouduv.cn>
- Office: 55-A-214
- Email: laiping@tju.edu.cn

Experiment report

- 2 experiments \rightarrow 1 experiment report. In your report, you should describe:
 - Setup of your experiments, including:
 - Experimental environment;
 - Applications you used;
 - Their configurations;
 - How you run your experiments.
 - Show your experiment results with figures/tables, describe your analysis on these results.
- Deadline: 2018/12/31, to laiping@tju.edu.cn.

Group Report

- Groups: 4-5 students per group
 - 78 students → around 18 groups
 - Send me your groupname and namelist of your members before 2018/11/30 to laiping@tju.edu.cn.
- Report: 1 report per group, a full description of your group work
 - Introduction + Motivation + Design/Idea + Results + Conclusion + Tasks assignment among group members.
 - Better with no less than 6 pages, not a hard constraint.
 - No later than: 2019/1/18 to laiping@tju.edu.cn.
- Presentation: 1 presentation per group
 - 10 minutes = 8 minutes slides + 2 minutes Q/A

Group Report Topics

- Topics including but not limited to:
 - Cloud Applications development: any applications that related with cloud computing.
 - Data processing/Security/Artificial intelligence/astronomy/public transportation, etc.
 - Papers describing your idea on:
 - How to reduce the tail latency of online cloud services.
 - How to improve the resource utilization of cloud platform.
 - Performance evaluation of cloud services.
 - Scheduling in datacenters/across multi-datacenters.
 - Cloud benchmarks.
 - etc.