

Data Center Marketing System

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Abstract

In this report we present the auction-based marketing system we build for data center applications. Motivated by similar mechanism of auctions for resource in other computer systems, we aim to let users bid their network resources, mainly bandwidth and latency of their desired flows. Different from existing bidding systems like Google's marketing system[4], our system is based on SDN network and utilizes the advantage of the central controller and global network information. Another thing we focus on is the allocation algorithm for the auctioneer. We investigated some algorithms and evaluated their performances.

1 Introduction

2 Related Work

2.1 Data Center Markets

2.2 Existing Pricing Mechanisms

2.3 Software Defined Network

2.3.1 OpenFlow

2.3.2 Floodlight

3 System Design and Algorithm

4 Implementation

5 Evaluation

6 Conclusions

It should be easy to write your report in LaTeX, and it's a great tool to learn. It almost certainly came with your Linux installation, and can be very easily installed in Cygwin and on the Mac (through the excellent MacTeX distribution).

References

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- [3] EC2 Spot Instances: <http://aws.amazon.com/ec2/spot-instances>.
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