

Department of Computer Science
University of Houston

DISTINGUISHED LECTURER SEMINAR FALL 2012

WHEN: MONDAY, OCTOBER 15, 2012
WHERE: PGH 232
TIME: 11:00 AM

SPEAKER: Dr. Rich Wolski, Eucalyptus Systems Inc. and University of California,
Santa Barbara

Host: Dr. Jaspal Subhlok

TITLE: Eucalyptus: Open Source Infrastructure for Cloud Computing

ABSTRACT:

We will present Eucalyptus -- Elastic Utility Computing Architecture for Linking Your Programs to Useful Systems -- an open-source software infrastructure that implements IaaS-style cloud computing. Originally developed as an open source research platform, the goal of the effort is to allow sites with existing clusters and server infrastructure to host a cloud that is interface-compatible with Amazon's AWS. In addition, through its interfaces, Eucalyptus is able to host cloud platform services such as AppScale (an open source implementation of Google's AppEngine), and Hadoop making it possible the "mix and match" different service paradigms and configurations within the cloud.

The talk will focus on the specific features of private clouds that have emerged as critical from research and commercial experience with Eucalyptus. It will also discuss research questions derive from the early successes and failures with private clouds. Finally, the talk will discuss the impact of university generated open source point to potential future directions that we believe will enable greater innovation.

BIO:

Dr. Rich Wolski is the Chief Technology Officer and co-founder of Eucalyptus Systems Inc., and a Professor of Computer Science at the University of California, Santa Barbara (UCSB). Having received his M.S. and Ph.D. degrees from the University of California at Davis (while a research scientist at Lawrence Livermore National Laboratory) he has also held positions at the University of California, San Diego, and the University of Tennessee, the San Diego Supercomputer Center and Lawrence Berkeley National Laboratory. Rich has led several national scale research efforts in the area of distributed systems and is the progenitor of the Eucalyptus project.