

WHAT'S NEW WITH CLOUD COMPUTING?

Dennis Gannon

Dennis Gannon is Professor Emeritus in the School of Informatics and Computing at Indiana University. From 2008 until he retired in 2014 Dennis Gannon was with Microsoft Research, most recently as a Director of Cloud Research Strategy. In this role he helped provide access to Azure cloud computing resources to over 300 projects in the research and education community in the U.S., Europe, Asia, South America and Australia. His previous roles at Microsoft include directing research as a member of the Cloud Computing Research Group and the Extreme Computing Group.



From 1985 to 2008 Gannon was with the Department of Computer Science at Indiana University where he was Science Director for the Indiana Pervasive Technology Labs and, for five years, Chair of the Department of Computer Science. In 2012 he received the President's Medal for his service to Indiana University. He chaired one of the committees that designed the University's School of Informatics. For that effort he was given the School's Hermes Award in 2006.

Abstract

Cloud computing is going through an interesting evolution. It has gone from a platform for deploying virtual machines to planet-scale systems with extensive collections of data storage and analysis services.

Most recently we have seen the emergence of "cloud native" computing, which in its most basic form involves the design pattern of microservices where big applications are decomposed into basic stateless components that run on a cluster managed by a tools kubernetes, Mesos and Swarm. The most recent services involve serverless computing. With the commercial vendors investing more than 10 billion dollars a year in infrastructure we are seeing an equally rapid evolution of the cloud data centers. Open source and small university clouds are also becoming an important driver of change. This talk will survey the current state-of-the-art and try to look ahead.

TUESDAY, SEPTEMBER 26, 2017
1:30 - 2:30 PM | INFO WEST, RM. 107



SCHOOL OF
INFORMATICS, COMPUTING AND ENGINEERING