The IBM Cloud Academy (ICA) and University Delivery Services (UDS) Programs

Fall Creek Falls, TN
April 20, 2010

Andy Rindos, Head,
IBM RTP Center for Advanced Studies (CAS)
Through the associated Apache project, the Virtual Computing Lab (VCL) has spread to numerous universities worldwide.

- NC State, East Carolina U, UNC-CH, NCCU, NCA&T, Western Carolina, etc. – along with a number of NC Community Colleges and K-12 pilots – in NC
- George Mason, VA Tech, VCU, ODU and many others in VA (i.e., the VA VCL)
- UMBC, UM College Park, UMUC, Morgan State U and others in MD
- Georgia State U and several of the HBCUs in the Technology Transfer Project – and Tennessee State U is exploring VCL.
- VCL set-ups can be found worldwide in India, China, Turkey, Portugal – and soon in places like the Ukraine

Several VCL pilots and production systems are being set by the IBM University Delivery Services program, including

- The Cal State System, Southern U, Montana U, U Porto………...and many others under negotiation

............and many of the above VCL universities are founding members of the IBM Cloud Academy
The IBM Cloud Academy

An ecosystem of leaders in designing and building cloud computing capabilities for students, institutions, and technology providers.

The IBM Cloud Academy is a forum for innovation for smarter classrooms, smarter administration, and research innovation.
IBM Cloud Academy

**Our Vision**

- An ecosystem of education thought leaders in cloud computing to share best practices, ideas, and technology
- Using cloud services to promote collaboration among the IBM Cloud Academy members and IBM
- Collaboratively working with education to help integrate cloud computing into infrastructures for institutional success

**Members Benefits**

- Access to thought leaders in the cloud computing arena from IBM and member institutions
- A collaborative community to share tools and technology
- Shared strategies how technology can support educational initiatives on campuses and in schools around the globe
IBM Cloud Academy - Membership

Membership Criteria:
- Integration of one or more IBM technologies into the campus infrastructure, AND
- Participation in one or more IBM Cloud Academy programs for collaboration and innovation (validated through participation documents in programs)

Membership Benefits:
- Breadth of IBM Cloud Academy programs
- Access to the IBM Cloud Academy Collaboratory
- Sharing with fellow members at biweekly and annual meetings
- Academic Initiative for 21st century skills
  - Cloud Curriculum and Certification Programs
- University Delivery Services
  - Hires students as IBM Employees for year round employment and develops Technical Skills and Professional Experience through University Professors, IBM Mentors, and challenging Project Assignments
- Open Source Projects for cloud computing
- Faculty Awards for Cloud projects (competitively awarded)
- Shared University Research grants for Cloud projects (competitively awarded)
The IBM Cloud Academy – Charter Members

- Beijing University of Technology, China
- École Normale Supérieure de Lyon, France
- Georgia State University
- George Mason University
- Gwinnett County Public Schools
- Marist College
- Nanyang Technical University – Singapore
- New York University
- North Carolina State University
- Ozyegin University, Turkey
- Pike County Schools
- Qatar University
- Carnegie Mellon University, Qatar Campus
- Texas A&M, Qatar Campus
- Technology Transfer Program: a consortium for Historically Black Colleges and Universities
- University of Maryland, Baltimore County
- Victoria University, Australia
University Delivery Services Model - provides an innovative and collaborative environment for University and Application Services.
IBM & Universities collaborate to deliver projects to both commercial and public sector clients - emphasizing mentoring and technical expertise for student development.
University Delivery Services for Cloud Computing based on Virtual Computing Lab (VCL) Open Source Solution

Via Remote Collaboration and Access to Servers

Installation & Configuration:
- Linux, Apache, Database, VCL Code, etc.
- Creation of Prototype Virtual Images
- Verification of Installation, Configuration, Virtual Images

Instruction & Training:
- VCL Administration
- Creation & Management of Virtual Images
- Level 1 & Level 2 Trouble Shooting Techniques

Additional Support Available:
- Creation & Management of Virtual Images
- Upgrades to base VCL code

Problem Reporting, Tracking, and Resolution Level 3 (Break/Fix)

Client Project Team
- Works with Tech. Lead to define Scope & Schedule
- Provides for remote access to hosting servers
- Assures required SW Licenses are provided
- Accepts VCL Environment
- Assists in transition to Support - Client may have direct student contact
Contacts for more information on these programs

- **Dionne Bennett**
  - phone: 770-863-1856
  - email: bennetdi@us.ibm.com

- **Melissa Kmiecik**
  - phone: 615-364-4788
  - email: melissak@us.ibm.com

- **Andy Rindos**
  - phone: 919-967-2499
  - email: rindos@us.ibm.com