CSC Cloud Presentation & Demo
Getting Cloud Services for Your Class

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Faculty/Student ISF Survey
Administration ISF Survey

CSM computational science center (CSC) is now looking for cloud solutions that will allow faculty and students to be able to request and manage computing resources from a "CSC Cloud", on demand of various educational or research need. Just like reserving an airline ticket on Expedia, you will be able to log into a web portal and request your infrastructure and computing environment - from servers to multi-tier applications.

We invite Mr. Todd Blaschka Mr. Arif Khan, Dr. Frank Lee and Ms. Juli Smith, from Platform Computing and IBM, to be onsite to present their technology to support CSC Cloud. You are mostly welcomed to attend this event to 1) understand how to use self-service web portal to setup your own computing environment for your class; 2) evaluate their cloud solution in the perspective of users or internal IT; 3) raise your particular requirements for your teaching and research.

In this session, Platform will:

1. (30 Min) Review Platform's expertise in distributing computing for nearly 20 years and its market leading cloud management technology, Platform ISF. http://www.platform.com/Procuts/isf
2. (60 min) Demonstrate Platform ISF from a user (faculty from Math department) perspective and review the administrator functionality on how to set up and manage ISF as part of CSC's IT infrastructure.

   Areas we'll cover include:
   a. Self-service portal to request infrastructure to applications; includes reservations, billing/chargeback and monitoring

   b. Administration controls to provide multi-tenant service, policy management to lend and borrow resources and prioritize workloads

   c. Integration with existing infrastructure and the ability to burst out to other clouds, in network or with a 3rd party provider

3. (30 min) CSC use models review/Q&A

Presenters:

Todd Blaschka, Federal and Public Sector Sales, Platform Computing, an IBM Company
Mr. Blaschka is responsible for the sales and support of Platform's cloud management in the public sector and federal markets.

Arif Khan, Cloud Computing Architect, Platform Computing, an IBM Company
Mr. Khan is a senior architect for Platform's cloud management. He's helped design and deploy numerous cloud management systems for large organizations around the world.

Frank Lee, Solution Architect, IBM
Dr. Lee is a Business Development Executive and IT architect for IBM Corp, responsible for architecting and developing solutions for infrastructure and informatics in the public sector.

Juli Smith, IBM HPC Sales Representative, West Region
Ms. Smith is responsible for IBM's High Performance Computing business for the

Platform Computing is the leader in cluster, grid and cloud management software — serving more than 2,000 of the world's most demanding organizations. For 19 years, our workload and resource management solutions have delivered IT responsiveness and lower costs for enterprise and HPC applications.

We'll review Platform cloud management solution that enables enterprises to build a Iaas and/or PaaS environment by creating a shared computing infrastructure from heterogeneous virtual and physical resources. With its workload-smart and resource-aware policies, the resulting environment delivers high utilization while meeting established SLAs.

- Automated, self-service delivery of infrastructure, enabling the delivery of Infrastructure-as-a-Service (IaaS) and Platform-as-a-Service (PaaS) through an on-demand, portal- and API-driven access to multi-component application services, tracked and billed according to use. The accompanying SDK enables IT to easily integrate with the portal for plugging in custom components and for tailoring it for their needs.
- Accelerate your PaaS enablement using the new visual, drag-and-drop Cloud Application Designer which allows for defining multi-component/multi-tier cloud applications to deploy IaaS and PaaS easily.
- Workload-smart and resource-aware allocation, through guaranteed resource reservations, coupled with optimum allocation policies, resulting in increased utilization to ensure the right resources are allocated to the right application at the right time.
- Heterogeneous resource integration, satisfying the diverse computing infrastructure requirements across virtual and physical environments,and supporting multiple VM managers (KVM, Xen and VMWare) and operating systems -- from a single-pane-of-glass management platform. Automatically scale infrastructure on-the-fly from five to 5,000 hosts to meet application needs no matter how big or small.
- Enhanced security for cloud deployments, incorporating Intel TXT technology, enabling enterprises to deploy private cloud solutions that can create pools of trusted hypervisors.

For further questions, please directly contact Dr. Cui Lin, from Computer Science Department. (email: clin@csufresno.edu)