CLOUD COMPUTING - PLANNING, DESIGN AND IMPLEMENTATION (5 DAYS)

What is Cloud Computing?
Cloud Computing creates a shared computing infrastructure from physical and virtual resources to deliver application environments according to workload-aware and resource-aware policies.

Cloud Computing eliminates over-purchase of systems to meet peak demand, resulting in lower CapEx and higher utilization.

An intelligent Cloud Computing middleware find the right systems to meet application requirements in a timely and cost effective manner and efficiently arbitrate resource usage among competing tenants to align with business priorities.

Objectives of the 5-day Cloud Computing Course
This 5-day intensive course is a combination of theory and practical hands-on workshops to expose the participants to cloud computing. At the end of the course, the participant will be sufficiently equipped to evaluate, analyze and build a basic cloud computing infrastructure. This course is CITREP approved.

Target Audience
This course is suitable for developers, systems administrators and IT infrastructure engineers and managers who needs to understand and implement a cloud computing infrastructure.

Day 1: Introduction and Cloud Computing with Virtual Machines
- Introduction to Cloud Computing
- External vs Internal Clouds
- Training course project introduction
- IAAS, PASS, SAAS explained
- IAAS technologies – cloud enabling your infrastructure
Lunch Break
- PASS technologies – cloud enabling your applications
- Introduction to Virtualization
- VM Cloud Use Cases
- Difference between the various VM technologies
- Introducing Xen Hypervisor
- Installation Citrix Xen and Xen Center

Day 2: Cloud Computing with Physical Machines
- High Availability, VM migration in a VM Cloud
- Building your first VM Cloud (Part 1)
- Introduction to Physical Provisioning
- Physical Machine Cloud Use Cases
Lunch Break
- Introducing Platform PCM
- Building a Physical Machine Cloud

Day 3: Cloud Enabling your Datacenter with Platform ISF
- Introduction to Platform Enterprise Grid Orchestration (EGO)
- Platform EGO walkthrough and hands-on
- Introducing Platform Infrastructure Sharing Facility (ISF)
- ISF Security and User Management
- ISF application definition/instance, account and user concepts
Lunch Break
- ISF Dynamic Resource Allocation and Policies
- Integrating your VM cloud and Physical Machine cloud
- Building your own application definitions
- Selling your resources

Day 4: Cloud enabling your infrastructure with service orchestration
- Introduction to Platform Load Sharing Facility (LSF)
- Platform LSF Walk through
- Platform LSF installation and basic configuration
Lunch Break
- LSF Grid/Cloud use cases
- Building your first service orchestration with LSF (Part II)
- LSF best practices

Day 5: Accelerating your applications and Summary
- Introduction to Platform Symphony
- Platform Symphony Use Cases
- Platform Symphony resiliency in a cloud environment
Lunch Break
- Participant presentation on cloud implementation
- Evaluation test
- Summary

About Platform Computing Cloud Innovation Centre (CIC)
The Cloud Innovation Centre (CIC) is a collaboration between Platform Computing and IDA Singapore.

CIC enables Singapore enterprises, ISV and Start-ups to accelerate their adoption of Cloud Computing technologies to position them for the next generation of XAAS.

Contact: jchow@platform.com
Tel: +65 6307 6590