



GUJARAT TECHNOLOGICAL UNIVERSITY

Report on

Faculty Development Program (FDP)

(7th and 8th February, 2014)

Subject	: 2 Days Faculty Development Programs (FDP) on Cloud Computing with reference to the implementation of new subject of Cloud Computing in fourth semester of regular MCA Program
Venue of training	: Oval Conference Room (A1) GTU, Chandkheda, Ahmedabad.
Date of Training	: 7 th & 8 th February, 2014 at 10:00 a.m.
Number of Participants	: 33
Course	: Cloud Computing as an elective subject in MCA Sem 4

Preamble

Cloud Computing has been introduced as an elective subject in Sem-4 of MCA course. As there were few queries regarding the subject, it was decided that all these queries can be addressed through a FDP. So a FDP was quickly announced and held on 7th & 8th Feb, 2014 at GTU Chandkheda Campus. 40 faculty members from various GTU affiliated-MCA institutes got registered for participation.

The objectives of the program:

- To make the faculty members aware about cloud computing terminology
- To provide an understanding of the basic concepts of parallel and distributed computing and their role in Cloud Computing
- To study the concept of Virtualization and relevant technologies available in the market
- To understand the importance of Cloud computing for higher throughput
- To make aware about availability of various Cloud platforms
- To study different application of Cloud and Cloud management techniques
- To demonstrate the steps required to develop a SWF application on Amazon
- To demonstrate the implementation of “ Pay per Use “ term in Cloud Computing

Day-1: 7th Feb, 2014.

Session 1: 10:30 am to 01:00 pm

Speaker : Dr Sanjay Chaudhary, Professor, Ahmedabad University.

Topic: Dr Chaudhary started his talk on Distributed Computing, Grid Computing as these two technology has played a vital role to provide the platform to emerge the era of Cloud Computing.



He started with the definition of Distributed Computing and discuss about versatile paradigm of distributed computing along with strengths and weaknesses of it. Same way he explained the concept of Grid Computing.

After the discussion on both of these terminologies he also explained about the differences of these two.

Session 2: 01:30 pm to 04:00 pm

Speaker: Dr Zakir Laliwala, Founder & CTO- Attune Infocom Pvt. Ltd., Ahmedabad.

Topic: Post lunch session was addressed by Dr Zakir Laliwala. He delivered his talk on Service Oriented Architecture (SOA). He threw some light on SOA lifecycle and Business Driven Development. He also discussed other topics as under...

- SOA and Standards
- SOA Reference Architecture
- SOA Entry Point
- IBM SOA Product
- SOA Governance & its Challenges



Session 3: 04:15 pm to 05:30 pm

Speaker: Mr. Firoz Sabaliya, Cloud / AWS lab coordinator Attune Infocom Pvt. Ltd., Ahmedabad.



Topic: Last session was on Amazon (Simple Storage Service) S3 Service and (Elastic Cloud Computing) EC2. Mr. Firoz gave a demonstration and all the participants followed the instructions and implemented the task in parallel. Query regarding installation and registration process at Amazon were also resolved by the speaker.

He demonstrated all the steps regarding how to create the bucket on remote server and upload the documents over there, create the user and assigned privileges to the user to see the documents in the browser.

Day-2: 8th Feb, 2014.

Session 1- 10:30 am to 01:00 pm

Speaker: Dr Sanjay Chaudhary, Professor, Ahmedabad University

Topics: On second day during first session Dr. Chaudhary shared the ideas on SOA & discussed in detail on Virtualization. He also explained how Virtualization played an important role in Cloud Computing. He discussed in depth on Model of Virtual machine, resource utilization, process virtualization, memory virtualization, I/O Virtualization, Virtualization in Cloud, XEN Virtual machine monitor etc.

He discussed about problem associated with Cloud Computing in detail.

Session 2 & 3 - 01:30 pm to 05:30 pm

Speaker: Mr. Firoz Sabaliya, Cloud / AWS lab coordinator Attune Infocom Pvt. Ltd., Ahmedabad.

Topics: In practical session, post lunch, the expert demonstrated to host a static website with Amazon S3 service. All the steps for website hosting were demonstrated by the speaker and implemented by participants. Another demonstration was on Building Blogs and Websites by using the Platform and Infrastructure with Amazon EC2 Service. He showed a shortcut to get ready made virtual images of software and platforms that can directly be used with the service, from: www.bitnami.com. He demonstrated all the steps for it, like how to generate key pair value (.pem file and .ppk file), established the SSH connection with remote Linux terminal, through root login access the word press platform on remote Linux terminal and connect to cloud with EC2 service (IaaS) so that everyone could integrate the word press platform on cloud (PaaS). He also explained that if we store or edit the file from this terminal and changes will be occurred on the cloud (SaaS).

During last half an hour he resolved the doubts raised during the session.

The program ends with vote of thanks by Dr Amit Kothari, Convener of the FDP program.

Photo Gallery







