

Rukmini Devi Institute of Advanced Studies

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(Approved By AICTE & Affiliated With GGSIP University)

DOSSIER

On

Guest Lecture

On

“IBM Bluemix”

On

August 12, 2015



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FORM A

Proposal:

- **Name of the event to be organized:** Guest Lecture on “IBM Bluemix”.
- **Date:** August 12, 2015
- **Time:** 11:30 am – 01:30 pm
- **Venue:** Lecture Theatre, RDIAS
- **Motivation for the activity:** The session aimed at imparting knowledge on “cloud and its applications” among students. This lecture was conducted to make students acquaint with one of the market booming techniques called Bluemix, an IBM product to deploy cloud services over internet.
- **Organized by:** MCA Department
- **Resource Person:** Mr. Bikramdeep Singh, Client Technical Specialist, IBM Cloud (Bluemix)

FORM B

Part 1

Aim of the event:

The aim of this session was to make students understand about cloud technology and its new trends in the market. The event was organized with an objective to make students understand the benefits from hearing how Bluemix offer a low-risk, secure, cost sensitive environment - using new capabilities and technologies geared towards the cloud.

Part 2

Abstract:

The session started with felicitation of guest and forwarded with the lecture by Mr. Bikramdeep Singh on cloud technology. He started his lecture by telling about practical usage of cloud technology in daily life. He shared that now days every small and big company store its data over cloud. Every company, directly or indirectly rely on this technology for data storage, financial ventures, customer relationship and for every important and critical step of organization growth.

Sir explained cloud computing as a class of systems and applications that produce distributed resources to execute the function in a decentralized manner. Then, he discussed it's all about features including on-demand Service, broad-access across multiple devices, resource routing, service metering.

Then sir explained about different services provided by cloud technology and its respective models i.e. Software as a service (SAAS), Infrastructure as a service (IAAS), Platform as a service (PAAS).

Further, he taught deployment methods of cloud technology with practical examples. With this he related Bluemix as PAAS software and an open standard cloud-based platform for building, managing and running all types of applications for mobile phones, big data, smart devices and so on.

He stated that Bluemix supports several programming languages including Java, Node.js, Go, PHP, Python, Ruby and can be extended to support other languages such as Scala through the use of buildpacks. Bluemix consists of applications, services, buildpacks, and other components. One can deploy applications to different Bluemix regions by using one IBM ID. Bluemix offers three ways to run user's code: cloud foundry, IBM containers, and virtual machines. Speaker explained each of the ways in detail as follows:

1. Cloud Foundry - Apps running in the Cloud Foundry infrastructure work with existing Cloud Foundry apps and can bind to any of the services available in the Bluemix catalog. With this infrastructure, user develops and manages his application code and Bluemix takes care of the management and maintenance of the infrastructure that powers those apps.

2. IBM Containers - With the IBM Containers infrastructure, user can run his web app anywhere that supports container deployment. A container is an object that holds everything that is needed for an app to run. This infrastructure includes a private registry for user trusted images, so that he can upload, store, and retrieve them.

3. Virtual Machines (BETA) – The Bluemix virtual machines infrastructure gives user the ability to create and manage virtual machine groups on the IBM public cloud. User can also create and manage VM groups on private IBM clouds that he has chosen to make available to Bluemix users.

Resource person also gave a demo session on application deployment and database creation in Bluemix environment. This was the most informative part of the whole

lecture where in Sir told every step for creating and deploying user's application on cloud in a narrative way.

The lecture was ended with students query session. Students showed enthusiasm and interest in this topic by raising some good queries to resource person.

Part 3

Conclusion

It is important for the students to be well acquainted with the applied aspects of the above mentioned areas and should be aware of the intricacies of implementing this technology. Keeping this in mind, the guest lecture was organized for the students to impart them knowledge and make them aware about the technical skill requirement and expectation of IT industries. The session was very informative and included the applied and technical aspects. The speaker explained all the points in detail with demo, case studies, and examples and handled all the queries with expertise. It was a great experience as the guest lecture was highly interactive.

Lecture Moments



Dr. Preeti Mehta, HOD MCA, RDIAS felicitating the guest speaker, Mr. Bikramdeep Singh ...!!



Mr. Bikramdeep Singh delivering lecture..!!



Students attentively listening to speaker...!!



Time to answer queries...!!



More enthusiasm thus more questions..!!