

**Birla Institute of Technology & Science, Pilani  
Work-Integrated Learning Programmes Division  
First Semester 2015-2016**

**BITS ZG628T: Dissertation Outline**

**ID No.** : 2013HT13437

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**DISSERTATION TITLE** : Making Domino Applications Cloud Ready

## **Project Outline**

**STUDENT ID No.** : 2013HT13437  
**NAME OF THE STUDENT** : RAJPRAKASH YADAV  
**COURSE No.** : BITS ZG628T  
**COURSE TITLE** : DISSERTATION  
**DISSERTATION TITLE** : Making Domino Applications Cloud Ready  
**BROAD ACADEMIC AREA OF WORK** : CLOUD COMPUTING

### **1. Background:**

Lotus Notes is one of the oldest collaboration tool developed by IBM in early 90s. Many large organizations use this tool for business collaboration functionalities which includes email, calendars, to-do lists, instant messaging etc. Lotus Notes also provides access to IBM Domino applications or more specifically databases.

Cloud Computing is in general term for anything that involves delivering hosted service over the internet. These services can be Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS), and Software-as-a-Service (SaaS).

The term "moving to cloud" has been a biggest buzz word in recent years. It refers to an organization moving away from a traditional CAPEX model to the OPEX model. In this work we make an attempt to build, deploy and scale IBM domino applications in cloud and make use of cloud services to provide a proof of concept to the organizations in terms of infrastructure costs, getting their application up and running faster, with improved manageability and less maintenance.

## 2. Objectives:

- i. To build, deploy and scale the IBM Domino applications in the cloud.
- ii. To provide a proof of concept for building, deploying and scaling the domino applications in cloud.
- iii. To provide a complete analysis on infrastructure savings, up and running the domino applications and experience for users.

## 3. Scope of Work:

- a. Studying the cloud computing environments and select a cloud service provider for IBM domino applications.
- b. Analyzing the costs, savings, time/efforts and long term benefits in setting up and running the applications.
- c. Designing/updating the IBM domino applications to deploy on cloud.
- d. Validating the applications on the cloud and analyzing the post deployment support activities.

## 4. Plan of Work:

S.No.	Description of Work	Start Date	End Date
1	<b>System Study</b> <ul style="list-style-type: none"><li>Requirement analysis based on domino and cloud computing</li><li>Analysis on domino in cloud</li></ul>	10-08-2015	16-08-2015
2	<b>Analysis and Design</b> <ul style="list-style-type: none"><li>Identify and analyze the cloud service provider</li><li>Prepare and analyze the domino application</li></ul>	17-08-2015	24-08-2015
3	<b>Development</b> <ul style="list-style-type: none"><li>Domino application development</li><li>Cloud setup</li><li>Preparation of mid-semester progress report</li></ul>	25-08-2015	30-09-2015
4	<b>System Integration</b> <ul style="list-style-type: none"><li>Integrating the cloud with on-premise domino application</li></ul>	01-10-2015	07-10-2015

5	<b>Testing the application</b> <ul style="list-style-type: none"> <li>Testing the developed application and integration</li> </ul>	08-10-2015	17-10-2015
6	<b>Documentation</b> <ul style="list-style-type: none"> <li>Compare and document the OPEX/CAPEX for the developed system</li> <li>Document the project</li> <li>Modifications after review by Supervisor and Examiner</li> </ul>	18-10-2015	25-10-2015

## 5. Literature References

[1] Lotus Notes Wiki

[https://en.wikipedia.org/wiki/IBM\\_Notes](https://en.wikipedia.org/wiki/IBM_Notes)

[2] Cloud Computing Wiki

[https://en.wikipedia.org/wiki/Cloud\\_computing](https://en.wikipedia.org/wiki/Cloud_computing)

[3] Pete Janezen, IBM Domino Applications on Cloud, SocialBusiness, IBM, June 11, 2014.

[4] Toni Tai, Migrating IBM Lotus Notes and Domino Systems to the Cloud

<http://blogs.technet.com/b/whymicrosoft/archive/2011/06/14/migrating-ibm-lotus-notes-and-domino-systems-to-the-cloud.aspx>

## 6. Particulars of the Supervisor and Examiner

### **Supervisor (Mentor)**

**Name:** Siddhartha Sen

**Designation:** Manager

**Qualification:** B.Tech.

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**Additional Examiner**

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**7. Remarks of the Supervisor**

This is a very interesting work on taking Domino application to the Cloud and host them as a service. (SaaS).

The corporations and other users of Domino Technologies need to leverage this to scale bring down costs and also to scale up operations as and when needed.



Signature of Student

Name Rajprakash Yadav



Signature of Supervisor

Name Siddhartha Sen



Signature of Additional Examiner

Name SOUMYA MANDAL