Dublin Business School Assessment Brief

Module Title:	Cloud Infrastructure & Virtualisation
Module Code:	B8IT122
Lecturer:	Andy Fitzgerald
Assessment Title:	Server Virtualisation
Restrictions on Time/Length:	4 weeks
Individual/Group:	Group
Assessment Weighting:	50% of CA Grade
Issue Date:	4th of May 2021
Due Date:	1st of June 2021
Mode of Submission:	Electronic

Assessment Overview

The purpose of this CA is to test the extent to which you have achieved a specific learning objective of the course. At this point you are expected to be able to apply your knowledge in Virtualization and skills you acquired through practical exercises by building and configuring servers. This is a group work so ideally each member will get a chance to build a server.

Assessment Details

You are tasked with creating a continuous integration system for a full stack development team. The development teams are made up of both frontend and backend developers. They require the following:

1. Git Repository
2. Jenkins
3. Database Server (MySQL, PostGres, MSSQL) - choose anyone
4. Application Server (JBOSS/Tomcat) - choose anyone

You are free to choose the cloud provider of your choice as well as any different stack in terms of Database or Application Servers.

Requirements

- Users should be able to access the Git repository to pull and push code
- Users should be able to access Jenkins server
- Users should be able to access the database

Deliverables

1. Technical Report (minimum of 2000 words)
2. Individual Contributions/Role
3. Video or Live Presentation of the project showing deployment of a simple application and code update
4. Submit Technical Report & all documentation to Moodle before the required deadline.
5. Submit an Individual Contributions/Role Sheet, this should clearly show the role/contributions of each member
6. Either Submit a Video Presentation of your project (e.g. discuss/present your project, make your own assumptions about the audience and be creative) OR be prepared to present your assignment in the class.

Marking Scheme

Part 1: Virtualise Servers - 50%

- All servers should be working
- Accessible & configurable

Part 2: Technical Documentation 30%

Technical document should include:

- Overview
- Purpose of the document
- Scope of the document
- Environment Information
- Architecture
- Access Procedure

Part 3: Video or In-Class Report 20%

- Member's participation (everyone is encouraged to contribute)
- Cloud Environment Information
- Architecture
- Member Roles

General Requirements for Students:

1. A proportion of assessment marks is allocated to presentation. All assignments must be word processed, with word count noted unless otherwise stated by the lecturer.

2. Where a hardcopy submission is required, an Assignment Submission Form must be securely attached to each submission.

3. All assignments must be submitted no later than the stated deadline. o Assignments submitted after the latest deadline (date and time) specified, including any extension, are deemed to be 'late' and are penalised, as follows: ▪ Where the assignment is submitted not more than seven working days after the latest specified date, the mark awarded to the assignment is reduced by 25%. ▪ Where the assignment is submitted more than seven working days after the latest specified date, it is awarded a mark of zero ▪ Where the assessment is undertaken in a group, the piece of work should be submitted in its complete entirety, and any penalty for late submission incurred applies to all group members.

4. All relevant provisions of the Assessment Regulations must be complied with.

5. Extensions to assignment submission deadlines will be not be granted, other than in exceptional circumstances. To apply for an extension please go to http://www.dbs-students.com/Registrar/ and download the Assignment Extension Request Form. Once completed this form should then be returned to your Programme Leader, for approval.

6. Students are required to retain a copy of each assignment submitted, and the submission receipt (If a physical submission is required) until the issuing of a transcript indicating the mark awarded. 2016-2017 4

7. Assignments must be appropriately packaged and presented.

8. Where a submission involves digital media, it is the submitting students' responsibility to ensure the media is appropriately labelled, fully working and they must retain a copy.

9. Assignments that breach the word count requirements will be penalised. There is a 10% discretion, either way, applicable in terms of word count.

10. Students are required to refer to the assessment regulations in their Student Guides and on the Student Website.

11. Dublin Business School penalises students who engage in academic impropriety (i.e. plagiarism, collusion and/or copying).

12. To prevent plagiarism please follow this link to the Harvard/OSCALA (delete as appropriate) Style Referencing Guide - all referencing is required in this format.

http://issuu.com/dbslibrary/docs/harvard-referencing-guide/1?mode=a_p (Guide on referencing is also available under DBS library guides at www.library.dbs.ie)