**COMP6347 - CLOUD COMPUTING & DISTRIBUTED SYSTEMS**

PROJECT

Your task is to develop and run a simulation using Cloudsim simulation tool. The case that you will simulate should be based on an existing simulation that is available form an Internet source.

In this project, there are three types of sources that you can refer. Type 1 is the case with the lowest level of difficulty. Type 2 is the middle one and Type 3 is the hardest one.

**TYPE I: A simulation taken from an Example in Cloudsim website**

For instance: “A simulation of a heterogeneous power aware data center that applies the Static Threshold (THR) VM allocation policy and Random Selection (RS) VM selection policy.”

Type I may allow you to get the minimum marks only

**TYPE II: A simulation taken from an Internet source (e.g. YouTube)**

For instance: “Simulation of SpaceShared VM and TimeShared Cloudlets”

<https://www.youtube.com/watch?v=wwqvUf78NCk>

Type II may allow you to get the medium marks

**TYPE III: A simulation taken from a scientific paper/publication**

For instance: “Simulation modeling of cloud computing for smart grid using CloudSim”

Journal of Electrical Systems and Information Technology, Volume 4, Issue 1, May 2017, Pages 159-172

<https://www.sciencedirect.com/science/article/pii/S2314717216300848>

Type III may allow you to get the maximum marks

You can modify or develop the existing case you are referring to. If you are successfully develop an existing case, the difficulty level will be up-graded accordingly.

DELIVERABLE

* A file of your report containing
  + Introduction
  + Model
  + Algorithm – code
  + Simulation result
  + Conclusion
* A presentation & demo of your simulation running that will be held in class

SUBMISSION

Submit your report through Binus Maya, due date is announced in class (Jan 15th, 2019)