Assignment 1 guide

# General guides:

* Instead of providing definitions, citations but also provide with examples.
* Providing more own arguments instead of definitions
* Making use of academic references instead of web tutorials
* Average length for the assignment 1 is **22 pages**

# Task 1:

Should discuss about the following topics. The preferred format is essay style.

* client/server
* P2P
* HPC: Parallel/ cluster/distributed
* Deployment models: public/private/community/hybrid cloud
* Service models: IAAS, SAAS, PAAS
* 5 characteristic of cloud(from page 16-slide2)
* Slide 8: Virtualization/ multicore

**Note**: Each topic should provide with the example (provide reference for example if it is not yours)

# Task 2:

Propose a cloud solution for ATN company which has the following points

* Explain why ATN should use cloud?
* Which deployment model should be used and why?
* Which service model should be used and why ?
* Which programming language should be used? (in this case NodeJS)
* Which database should be used?(in this case MongoDB)
* Which cloud platform should be used? (Heroku in this case)
* Explain diagram at the bottom of assignment brief 1

**Matching assignment criteria to tasks**

**P1** Analyse the evolution and fundamental concepts of Cloud Computing.

* Task 1

**P2** Design an appropriate architectural Cloud Computing framework for a given scenario.

* Task 2

**P3** Define an appropriate deployment model for a given scenario.

* Task 2

**P4** Compare the service models for choosing an adequate model for a given scenario.

* Task 2

**M1** Discuss why an organisation should migrate to a Cloud Computing solution.

* Crittically discussed in task 2 with **specific analysis** (and assumptions) about ATN

**M2** Demonstrate these deployment models with real world examples.

* Task 1, provide and explain examples about deployment models

**D1** Justify the tools chosen to realise a Cloud Computing solution.

* Achieved M1, M2
* Address the task 2 critically (Example: don’t just provide what is NodeJS, MongoDB.. but do analysis the suitable of the proposed solution to ATN company)