University of Toronto  
School of Continuing Studies  
Foundations of Enterprise Architecture

Individual Assignment 2 [10 marks]  
(Due Date: Tuesday 13-Jul-2018 end of day EST)

You have been hired as an Enterprise Architect of a medium enterprise for over six months now (you can use your own enterprise for this assignment). Your organization has approached you to develop a plan to create a Cloud-based Disaster Recovery (DR) option. Your manager made the argument that we should have an on-premise solution as oppose to a cloud-based solution. Your director seems to be more progressive and wants you to make a case for a cloud solution.

Requirement

* **Describe in detail what a cloud-based disaster recovery entails.**

Cloud based Disaster Recovery is non-productive environment, it is commonly a secondary environment that is maintained for use in certain disaster scenarios that is something that can occur anywhere. From natural disaster to location disaster, power outages, physical or cyber-attack as well as human disaster, which is the most prolific disaster. Thanks to Cloud Computing elasticity nature, the DR cost went down significantly allowing you to pay for what you use. Moreover, gain the ability to test DR procedures more frequently and test DR procedures if necessary

* **What will be your strategy to come up with an on-premise solution to a cloud-based solution?**

When enterprises move their workloads and data to the cloud, their on-premises datacenters still keep playing an important role. The term hybrid cloud consists in a combination between public cloud and on-premises data centers (local), in order to create an integrated IT environment that includes both. Some companies utilize hybrid cloud as a strategy to migrate their whole datacenter to the cloud in long term. Other organizations use cloud services to extend their existing on-premises infrastructure.

* **Propose a set of objective arguments for and against cloud-based DR solution**.

Having cloud-based DR reduces the necessity for data center space, IT infrastructure as well as IT resources, which leads to significant cost reductions, enabling smaller companies to deploy disaster recovery options that were previously only found in larger enterprises. Reduce on premises infrastructure allowing you to remove aging technologies that sometimes is not reliable. To offer the right level of DR services to meet the needs of the user in their organization.

But disaster recovery in the cloud is not a perfect solution, and its challenges need to be clearly understood before a firm venture into it. It is all-or-nothing thing

* Use APSA for your analysis
* Develop a list of key criteria and considerations to help you evaluate both options.
* Please include any appropriate definitions
* 3-4 typed pages single space NOT including diagrams
* Additional materials can be added as appendices
* Please cite all references and the appropriate bibliographic reference
* Your name, telephone number and student ID must be part of the footer on every page