9/18/15
IT 489

Topic Submission

Topic:

Is Cloud Computing the future of data storage? Has cloud computing advanced enough to become the future of all data storage, or are there security flaws that prevent it from being used safely?

Description of topic

Cloud computing has become a hot topic in recent years, especially in Business, IT specifically. Cloud computing gives PC and other internet users the ability to save, store, and download data and programs over the internet instead of using storage space on the user's hard drive. Cloud computing has become so popular because its costs and efficiency outweigh those of the speed and cost ratio of using local hard drives. Because all information stored on a cloud is available online, cloud computing has "unique attributes that require risk assessment in areas such as data integrity, recovery, and privacy, and an evaluation of legal issues in areas such as e-discovery regulatory compliance, and auditing." In plain English, information stored online (cloud) is more vulnerable to outside attack vs. information you have saved on your local hard drive. My hypothesis is that I don't believe cloud computing has advanced enough to be used for all future data storage. I will be exploring whether there are serious security flaws with current cloud computing standards to see if my

hypothesis is true, or whether cloud computing is a reliable source for future data storage.

Testable Hypothesis:

I believe that there are currently too many security flaws with cloud computing to make it a candidate for all future data storage.

Possible sources/references:

1) http://www.forbes.com/sites/louiscolumbus/2015/04/05/predicting-the-future-of-cloud-service-providers/

2) http://www.infoworld.com/article/2613560/cloud-security/cloud-security-9-top-threats-to-cloud-computing-security.html

3) http://dl.acm.org/citation.cfm?id=1594816

4) http://www.sciencedirect.com/science/article/pii/S0167739X08001957

5) http://dl.acm.org/citation.cfm?id=1693134

6) http://www.idi.ntnu.no/emner/tdt60/papers/Cloud_Computing_Security_Risk.pdf

7) http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5189563&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxpls%2Fabs_all.jsp%3Farnumber%3D5189563

Faculty Mentor:

Dr. Narock

Due Dates:

Topic Submission Friday September 18, 2015 by midnight

Peer Review 1 Wednesday September 30, 2015 by midnight

Project Draft Thursday October 22, 2015 by midnight

Peer Review 2 Friday November 6, 2015 by midnight

Final Report Friday December 4, 2015 by midnight

Project Presentation Will be scheduled 12/7 thru 12/11

Project Retrospective Friday December 11, 2015 by midnight

Timeline:

Topic Submission – Pick topic by Sept 5, finish document by 9/17

Peer Review 1 – Complete 9/28

Project Draft – Finish draft by 10/22

Peer Review 2 – Complete 11/4

Final Report – Complete by 12/1 then revise before 12/4

Project Presentation – Schedule for 12/9 Wednesday

Project Retrospective – Wednesday 12/10