CS 519 Cloud Computing Overview

**VL07: Working with EBS**

School of Technology and Computing

## **Instructions**

## For this activity you will be using AWS Academy Labs - **Working with EBS**.

Please complete the provided lab.

**Write a 150-word summary to explain your understandings and findings from this lab assignment.**

* Amazon EBS volumes are designed to be highly available and reliable. Amazon EBS volume data is replicated across multiple servers in an Availability Zone to prevent the loss of data from the failure of any single component.
* EBS starts out simple. It creates a volume from 1GB to 1TB in size and then mount it on a device (such as /dev/sdj) on an instance, format it, and off you go. Later it can detach it, let it sit for a while, and then reattach it to a different instance.
* EBS volumes have redundancy built in, which means that they will not fail if an individual drive fails or some other single failure occurs. But they are not as redundant as S3 storage, which replicates data into multiple availability zones; an EBS volume lives entirely in one availability zone.
* From a practical point of view what this means is that you should expect the same type of reliability you get from a fully redundant RAID storage system. While it may be technically possible to increase the reliability by, for example, mirroring two EBS volumes in software on one instance, it is much more productive to rely on EBS directly.