* **Week 3 Paper 1 - Determine the Cost of Storage in the Cloud** *Please click on the link above to submit this week's assignment.* Use the online AWS and Azure calculators to determine the  monthly cost of storing data 2 sizes of data : (1)  100 TB (2)  1  Petabyte Use the following storage options for both data sizes.
  + AWS S3 standard
  + AWS EBS
  + AWS Glacier
  + Azure Blob storage
* **Requirements for the written assignments:**
  + Assignment file must have a .doc or .docx or .xls/xlsx extension; screen shots should be in .jpg, .gif, or .pdf
  + Points for this assignment = 20

* **Week 3 Paper 2 - Data Transfer** *Please click on the link above to submit this week's assignment.*
  + Provide a brief description of the AWS Snowball and Snowmobile devices.  When would you use them and how much would it cost to transfer 100 TB of data?
  + Provide a brief description of the Azure equivalent of AWS Snowball devices.
* **Requirements for the written assignments:**
  + Submit your write up by end of Week 3.Assignment file must have a .doc or .docx or .xls/xlsx extension; screen shots should be in .jpg, .gif, or .pdf
  + Points for this assignment = 20

* **Week 3 Assignment 1 - Using the Cloud Storage** *Please click on the link above to submit this week's assignment.* In this hands-on assignment you will use the cloud provider's Web and CLI (Command Line Interface) interfaces to view and modify the contents of the cloud storage. You may use either the AWS CLI or Python boto3 (https://aws.amazon.com/sdk-for-python/)  to work with the AWS S3 buckets.  Provide a write-up of your experience using the cloud provider's web and CLI functionality.
  + Login to your AWS account and acquire the Secret and Access keys for your user id
    - NOTE: DO NOT share the keys with others.  Do not include the keys in the screen shots.
  + Download and install the cloud provider's CLI (command line interface) program in the Linux VM that you created in Week 1.
    - Start the VM and then connect to it using PuTTY
    - Install the CLI using python pip
    - Optionally, install python 3.x and use pip3
    - Provide the secret and access keys via the "aws configure" command
  + Create an S3 bucket using the browser or the CLI
  + Create a few folders and test files in the VM. Example, create directories named "folder1" and "folder2" .
  + Put 3 test files into "folder1" and 5 test files into "folder2"
    - Use the Linux editor (vi, vim, or any other) to create files
    - Or, Create the files in your PC/Mac and transfer the files to the VM ( Windows PC users need to use WinSCP to transfer files.  Mac users need to use scp)
  + Do the following using the AWS S3 CLI from the command window
    - Upload only the files from the "folder1" folder into the S3 bucket. List the contents of the bucket
    - Remove the files from the S3 bucket and again list the contents to verify that the bucket is empty
    - Use the 'sync' option to upload contents of the 2 folders to S3. List contents of the bucket
    - Download all files from an S3 bucket, into a different folder, using the "recursive", "exclude" and "include" options
    - Compute the total space taken up by the files in the S3 bucket. Verify that it matches the total size of the files in the VM (Hint : use 'ls -lah' to view the file sizes in the VM)
    - Delete the S3 bucket and all its contents at the end of the assignment.  Get a list of buckets to confirm.

Disable the AWS CLI keys when done with the assignment.