

## **Assignment 2**

**(Due on 25<sup>th</sup> /26<sup>th</sup> August, 2020)**

Write program to create a web tier of a cloud application. Follow the steps below:

- Create a static website with one or two HTML pages and copy the pages and dependent files in an Amazon S3 bucket.
- Create a startup script to install Apache server and copy the website files from S3 to the instance.
- Create a Python program using *boto* to launch an *t2.micro* instance. Supply the startup script you created in previous step while launching a new instance from the program. Use a security group with port 80 open.
- Your program should check the status of the newly launched instance and return the public DNS address of the instance when the status changes to “running”.
- Open the public DNS of the newly launched instance in a browser and verify if the static website works.

### **N.B:**

1. You need to install *boto* in your Laptop. You can install *boto* from source or using *pip* command. For installation and *boto* configuration, you can follow the links below.
  - <https://www.linuxnix.com/python-boto-how-to-install-and-configure-in-linuxunix/>
  - [http://docs.pythonboto.org/en/latest/boto\\_config\\_tut.html](http://docs.pythonboto.org/en/latest/boto_config_tut.html)
2. Tutorial link: <http://boto.cloudhackers.com/en/latest/index.html> ;  
<http://boto.cloudhackers.com/en/latest/ref/ec2.html>