

CS351 - IT Workshop II (Cloud Computing)

Assignment 3

Due on 2nd September, 2024

(Please take screenshots, reduce the size of the images and submit in Google Classroom)

1. Create a static website with one or two HTML pages and copy the pages and dependent files in an Amazon S3 bucket.
2. Create a startup script to install Apache server in EC2 instance. The script should also copy the website files (of the previous step) from S3 to EC2 instance.
3. Create a Python program using *boto* to launch a *t2.micro* instance in EC2. Supply the startup script you created in the previous step while launching a new instance from this program.
4. Use a security group with port 80 open.
5. 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*”.
6. Open the public DNS of the newly launched instance in a browser and verify if the static website works.

Please note that 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://boto3.amazonaws.com/v1/documentation/api/latest/index.html>