Hi Everyone,

As a reminder, Lab4 is due Sunday, March 18, 23:59pm. Late policy is the same as previous labs.

Grading of this lab consists of 3 parts: **demo (60%), code (30%), and report (10%)**.

For the demo part, submit a short screen recording showing that the web application is running correctly with your setup. Share your video via Google drive to Elaine ([ranang2@illinois.edu](mailto:ranang2@illinois.edu)).

In the video, show that:

1. Your application is running correctly on one EC2 **(30%, break down as)**:

    - Pointing to your web browser shows the cloud\_net website **(5%)**

    - The frinet\_user table in your MySQL database changes before and after you register a new user. **(5%)**

    - Connect to your Memcached instance via telnet/nc and issue a "get SOME\_KEY", and get back your caching results. **(5%)**

    - Nginx access log. (eg. via "tail /var/log/nginx/access.log") **(5%)**

    - Docker running evidence. (eg. run "sudo docker ps", get the container id, and run "sudo docker log CONTAINER\_ID") **(10%)**

2. Your application is running correctly with Elastic Beanstalk **(30%, break down as):**

    - VPC, subnet, and related networking services setup console. **(10%)**

    - Elastic Beanstalk application page, use .[elasticbeanstalk.com](http://elasticbeanstalk.com) URL to visit the web application. **(10%)**

    - SSH into your EB-managed EC2 instance, connect to your RDS instance from there, do some db query.**(5%)**

    - Connect to your ElastiCache instance from your EB-managed EC2 instance, do some "get" query. **(5%)**

For the code part, push all your code to Github. We will be mainly looking at 'cloud\_net/settings.py', 'frinet/views.py', Dockerfile, your\_nginx.conf, and your AWS API script. Write down how to run your API script, and include a log of your script running results.

For the report part, answering the specified question in section 2.1, 2.2, and 2.3. Also write down explicitly what you did for extra credit (if any).

Let us know if you have any questions. Have a great Spring break! :)

Best,

CS436 Course Staff