Test

For this assignment, I mainly test the functionality that load balancers forward the request from client to the server. Also I test the functionality of a health request whether the function could detect the most optimal server after a number of requests sent.

For example
I set up the server and load balancer ,forward the request to the server from the client, to check whether the server could successfully get the request and process it. And also I use the test script from classmates to the GET/HEAD/PUT request on my loadbalancer.

Question.
1.

 In reality, the server may handle a thousand requests from all over the world in a second; by facing a thousand requests in a second, a server must solve the performance issue. If the speed of the server to handle many requests is too slow, the users are not so patient to wait. While in this assignment, we do not need to handle a thousand requests in a second. As a result, the stability of the server is the first priority to consider. Moreover, if we want to implement this functionality to test the performance, the complexity of the program will increase.

2.
  If load balancer can process of client request,
    First, we do not need to forward the request to the server.
    Second, the performance may increase, since we do not need to wait for the server. We could directly process the request.

The cost of these improvements, we will lose the modularity of code; the codes could be massive, and it is hard to debug.

3.
     It takes almost 64 second to get a 400MIB long file.

  When I connect to the NC, the loadbalancer may detect the NC as a failed port since NC does not return any message. Since NC did not process the request, it is faster.