**Student Name:** **Weight: \_\_\_\_\_\_\_\_\_\_**

**Student ID:** **Marks: \_\_\_\_\_\_\_\_\_\_**

Lab 4: Web Proxies

# Website: [Altoro Mutual (testfire.net)](http://testfire.net/)

# Part 1: Burpsuite [Please capture the screenshots for all tasks]

## PROXY SERVER(1)

1. Set a proxy server in burpsuite and your brower at the following address : 127.0.0.1:9090 and attach screenshots for both.
2. Intercept the traffic using proxy server from [Altoro Mutual (testfire.net)](http://testfire.net/). Please mention which headers, protocol, protocol version and host name for the website.

## REPEATER(2.5)

1. Pass five common password in [Altoro Mutual (testfire.net)](http://testfire.net/login.jsp) using burpsuite repeater. Please attach screenshot of render and raw window for each.

## INTRUDER(10)

1. Create two wordlists of 50 common passwords. Attach screenshots of your wordlists.
2. Perform fuzzing and brute force attacks using the following attacks. Please attach results for each attack. Highlight your 200 code success in the screenshots if any.

* Sniper
* Battering Ram
* Pitchfork
* Cluster Bomb

**DECODER(1.5)**

1. Double encode happy into base64.
2. Provide MD5 hash of ITSC206.
3. Double encode SAIT\_CALGARY into ASCII HEX.

**SEQUENCER(1.5)**

1. Analyze the quality of randomness and entropy in data for [Altoro Mutual (testfire.net)](http://testfire.net/). Please attach screenshots for Character-level and Bit-level analysis.

**Part 2: Squid Proxy**

**(Please attach screenshots for all the task)**

* Update your squid. Attach screenshot. (1)
* Access control list: Create a file named “Dewil” and block the following websites in it: (1)
  1. [What is Cybersecurity? | IBM](https://www.ibm.com/topics/cybersecurity)
* Please attach the screenshots showing the proxy refusing the connections. (1)
* Bring second machine ubuntu under the proxy. Attach screenshots. (1)
* Show the website accessed blocked in your second machine.(1)
* Pull up the logs for [What is Cybersecurity? | IBM](https://www.ibm.com/topics/cybersecurity) (1)
* Use Apache Benchmark (ab) with 150 requests to measure web page load times for [Altoro Mutual (testfire.net)](http://testfire.net/)(1)
* Set up a cache rule for all .jpg, .png and .jpeg images.(2)
* Use AB command to measure web server load.(1)
* Is there a difference ?(1)