## MIT WORLD PEACE UNIVERSITY

Vulnerability Identification and Penetration Testing Third Year B. Tech, Semester 6

# BruteForce password Attack using Burpsuite

## Assignment 1

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#### 1 Aim

To perform a brute force attack using Burpsuite.

## 2 Objectives

- 1. To learn about the Burpsuite tool.
- 2. To perform a brute force attack using Burpsuite.
- 3. To understand the concept of brute force attacks.

#### 3 Theory

#### 3.1 Burpsuite

Burp Suite is a leading cybersecurity tool that provides web application security testing. It is developed by PortSwigger, an IT security company based in the UK. Burp Suite is widely used by security professionals to perform various security testing tasks, such as scanning, crawling, and testing web applications for vulnerabilities.

#### 3.2 Advantages

- BurpSuite provides a user-friendly interface, making it accessible to both beginners and experienced users.
- It offers a wide range of features for web application testing, including proxy, scanner, and intruder, among others.
- BurpSuite supports various platforms, including Windows, macOS, and Linux, enhancing its versatility and usability.
- The tool allows for easy customization and extension through the use of plugins, enabling users to tailor their testing environment according to their needs.
- BurpSuite provides detailed reports and logs, facilitating thorough analysis and documentation of test results.

#### 3.3 Disadvantages

- While BurpSuite offers a free version, its full set of features is only available in the paid version, which may be a barrier for some users.
- Due to its extensive functionality, BurpSuite has a steep learning curve, requiring time and effort to master all of its features effectively.
- The tool's reliance on Java may lead to performance issues, especially when dealing with large-scale or complex testing scenarios.
- BurpSuite's automated scanning capabilities may produce false positives or miss certain vulnerabilities, requiring manual verification by users.

• The graphical user interface (GUI) of BurpSuite, while intuitive for many, may not be suitable for users who prefer command-line interfaces or scripted testing approaches.

## 4 Implementation

## 4.1 Launching Burpsuite

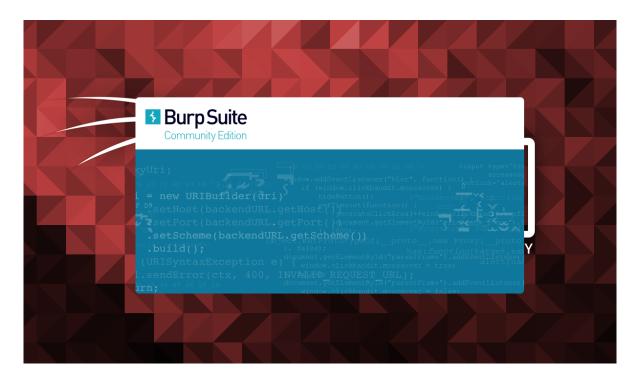


Figure 1: Launching Burpsuite

## 4.2 Opening Browser for Locally hosted Django Project

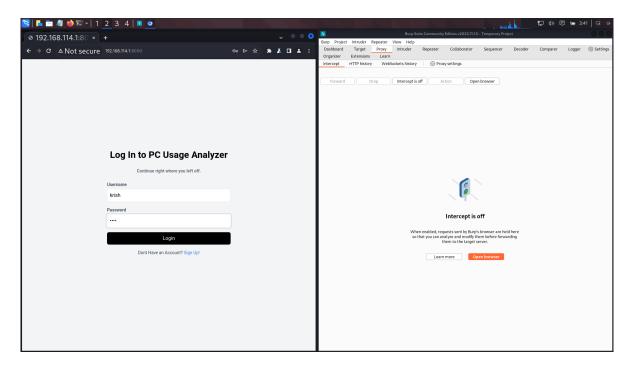


Figure 2: Opening Browser for Locally hosted Django Project

### 4.3 Entering Credentials and Interecepting

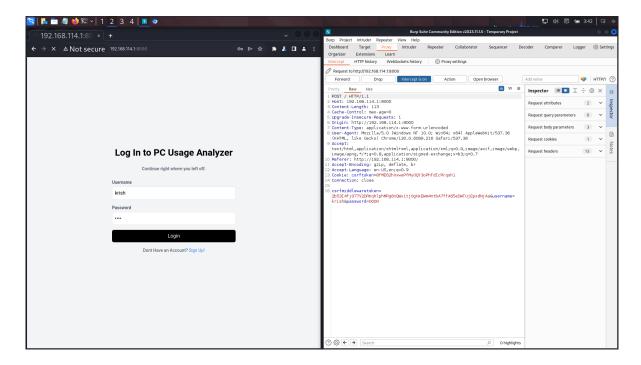


Figure 3: Entering Credentials and Intercepting

## 4.4 Setting Payloads by selecting Username and Password

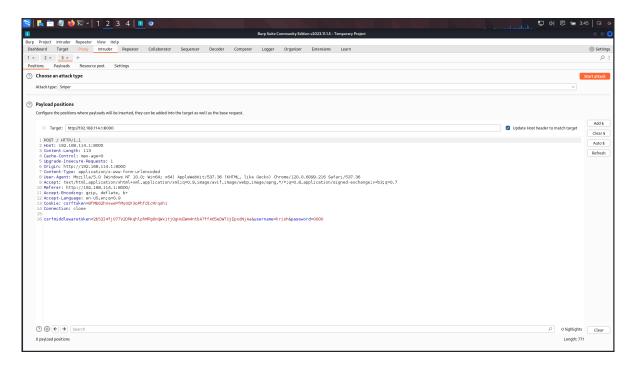


Figure 4: Setting Payloads by selecting Username and Password

### 4.5 Choosing Cluster Bomb

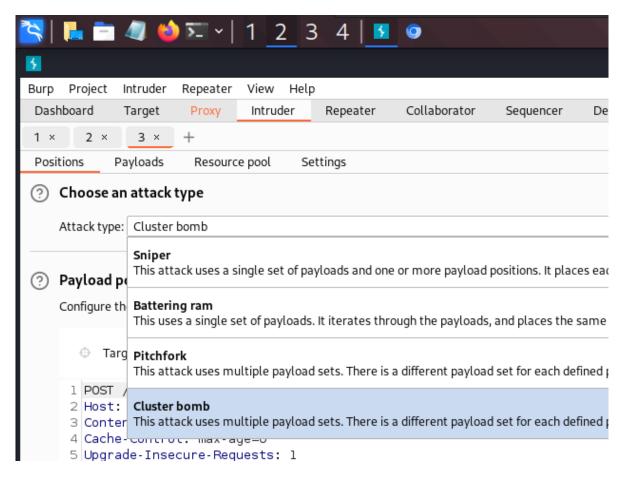


Figure 5: Choosing Cluster Bomb

## 4.6 Setting Password Brute Force Attack lists

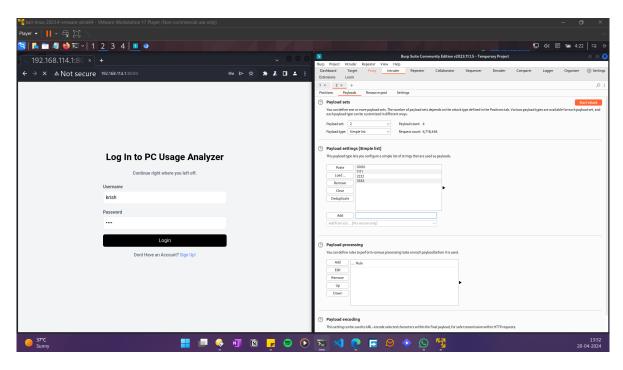


Figure 6: Setting Password Brute Force Attack lists

## 4.7 Setting Password Brute Force Attack lists

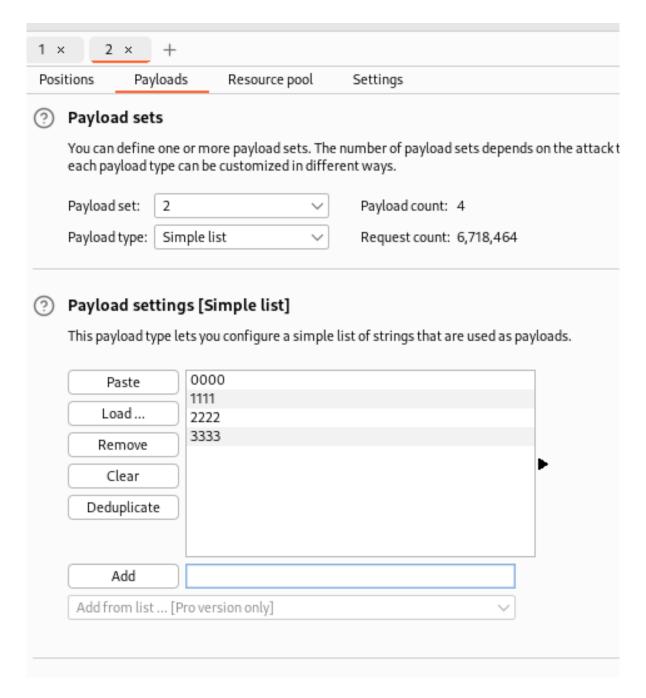


Figure 7: Setting Password Brute Force Attack lists

### 4.8 Setting Usernames list from brute forcer

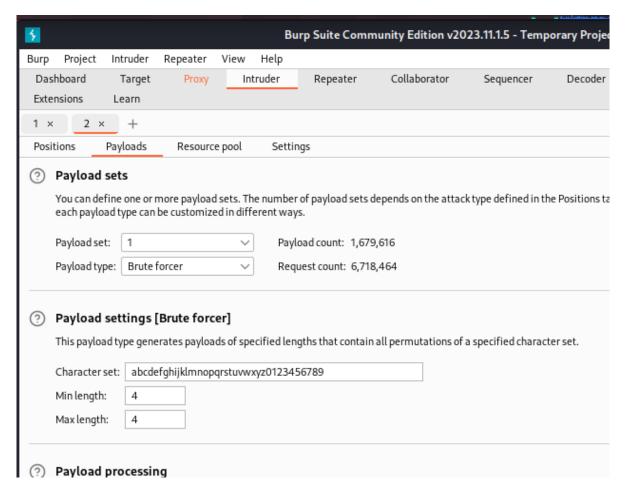


Figure 8: Setting Usernames list from brute forcer

## 4.9 Executing Attack

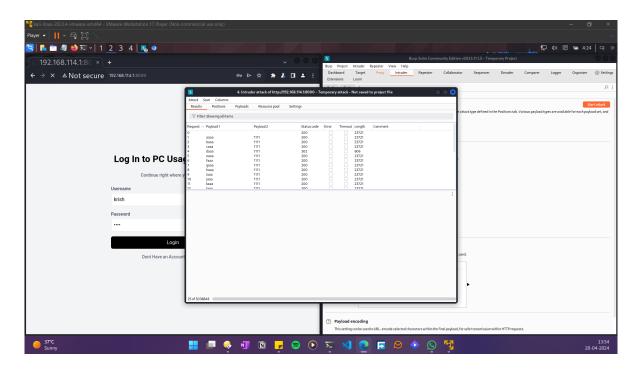


Figure 9: Executing Attack

#### 4.10 Executing Attack, as seen on django server console logs

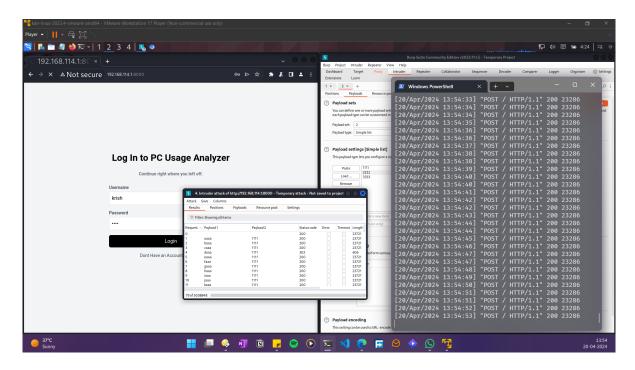


Figure 10: Executing Attack, as seen on django server console logs

## 4.11 Finding Correct password by noticing change in length

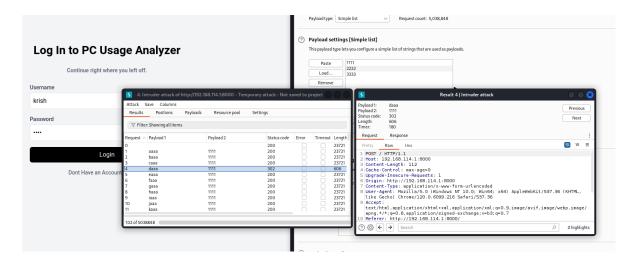


Figure 11: Finding Correct password by noticing change in length

#### 4.12 Correct password found

Results	Positions	Payloads	Resource pool	Settings			
▼ Filter	r: Showing all item	ıs					
Request ^	Payload1		Payload 2	Status cod	e Error	Timeout	Lengtl
0				200			23721
1	aaaa		1111	200	Ō	Ō	23721
2	baaa		1111	200	Ō	Ō	23721
3	caaa		1111	200			23721
4	daaa		1111	302			606
5	eaaa		1111	200			23721
6	faaa		1111	200			23721
7	gaaa		1111	200			23721
8	haaa		1111	200			23721
9	iaaa		1111	200			23721
10	jaaa		1111	200			23721
11	kaaa		1111	200			23721

Figure 12: Correct password found

### 5 Platform

Operating System: Arch Linux X8664

IDEs or Text Editors Used: Visual Studio Code

## **FAQs**

- 1. Features of Burp Suite:
  - Web vulnerability scanning
  - Intercepting proxy
  - Application scanning
- 2. Three versions of Burp Suite:
  - Community Edition (free)
  - Professional Edition (paid)
  - Enterprise Edition (paid with additional team features)
- 3. Safety of Burp Suite:
  - Burp Suite is safe for ethical hacking and security testing when used responsibly and legally.
- 4. Purpose of the proxy tab in Burp Suite:
  - Allows intercepting and modifying HTTP/S requests and responses for analyzing and manipulating web traffic during security testing.

#### 6 Conclusion

In this assignment, we learned about the Burpsuite tool and performed a brute force attack using Burpsuite. We set up the attack by intercepting the login request, setting up the payloads, and executing the attack. We observed the attack in action and found the correct password by noticing the change in the response length. This exercise helped us understand the concept of brute force attacks and how they can be used to compromise security.