

CFSS PROJECT Brute Force Attack with Burp Suite

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Burp Suite: Burp Suite is a Java-based Web Penetration Testing framework. It has become an industry-standard suite of tools used by information security professionals. Burp Suite helps you identify vulnerabilities and verify attack vectors that are affecting web applications.

Brute Force Attack : Brute force plays a vital role in web penetration testing because is the simplest method to gain access to a site or server by checking the correct username or password by calculating every possible combination that could generate a username or password.

What is a dictionary/ wordlist?

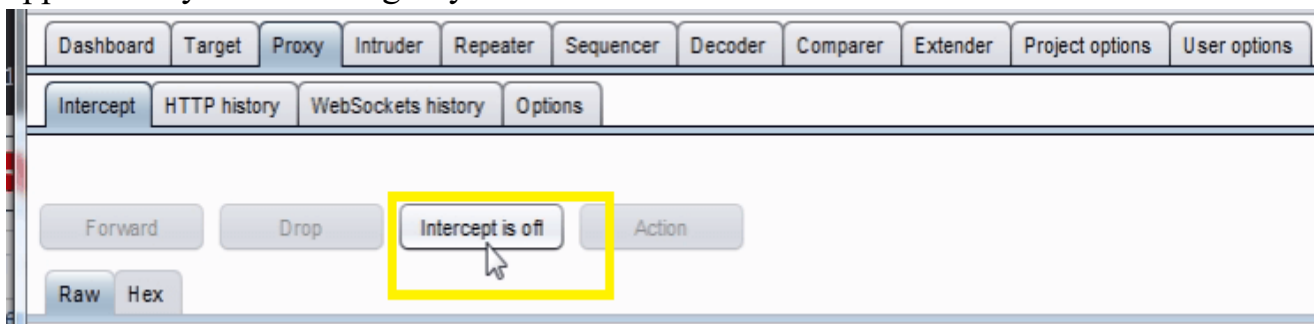
Dictionary or Wordlist is a collection of words which are quite useful while making brute force attack. There are several tools which let you generate your dictionary that you can use in brute force attack.

Requirements

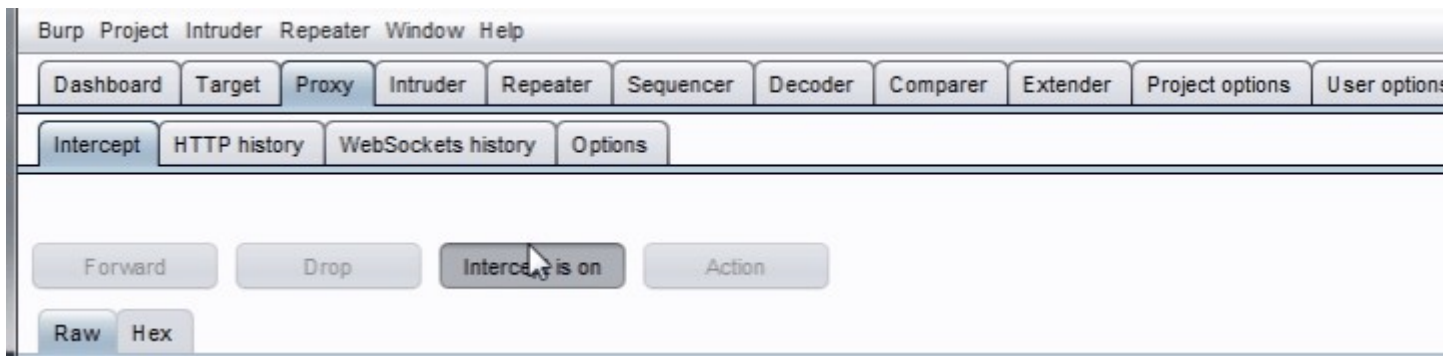
- BurpSuite
- Any Browser (We use chrome here)
- Network Proxy
- Demonstrate Link testphp.vulnweb.com

Now open Burp Suite.

In the Burp Proxy tab, ensure “Intercept is off” and visit the login page of the application you are testing in your browser.



Turn on Intercept

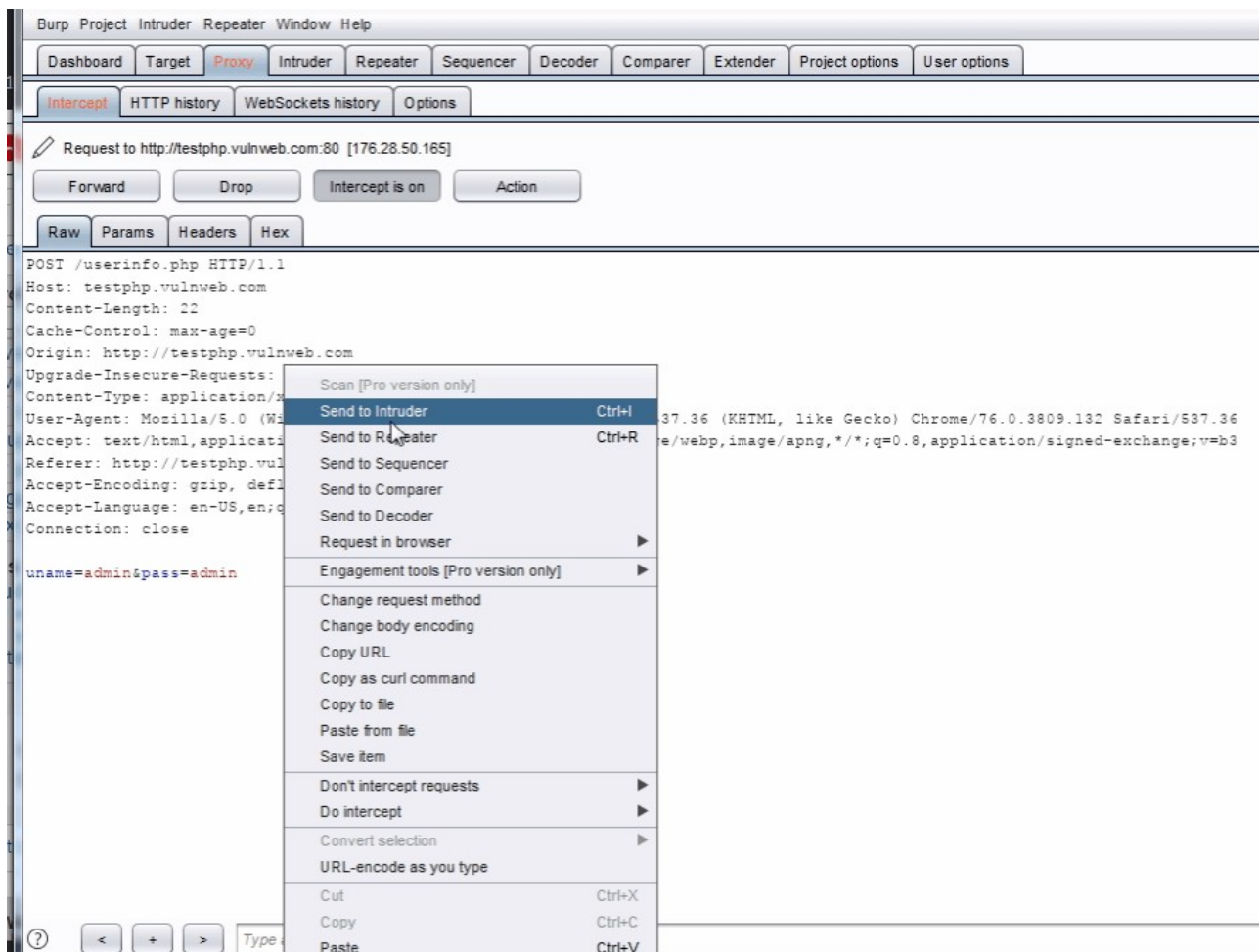


In your browser enter the random username and password, then submit the request to intercept the browser request using burp suite.



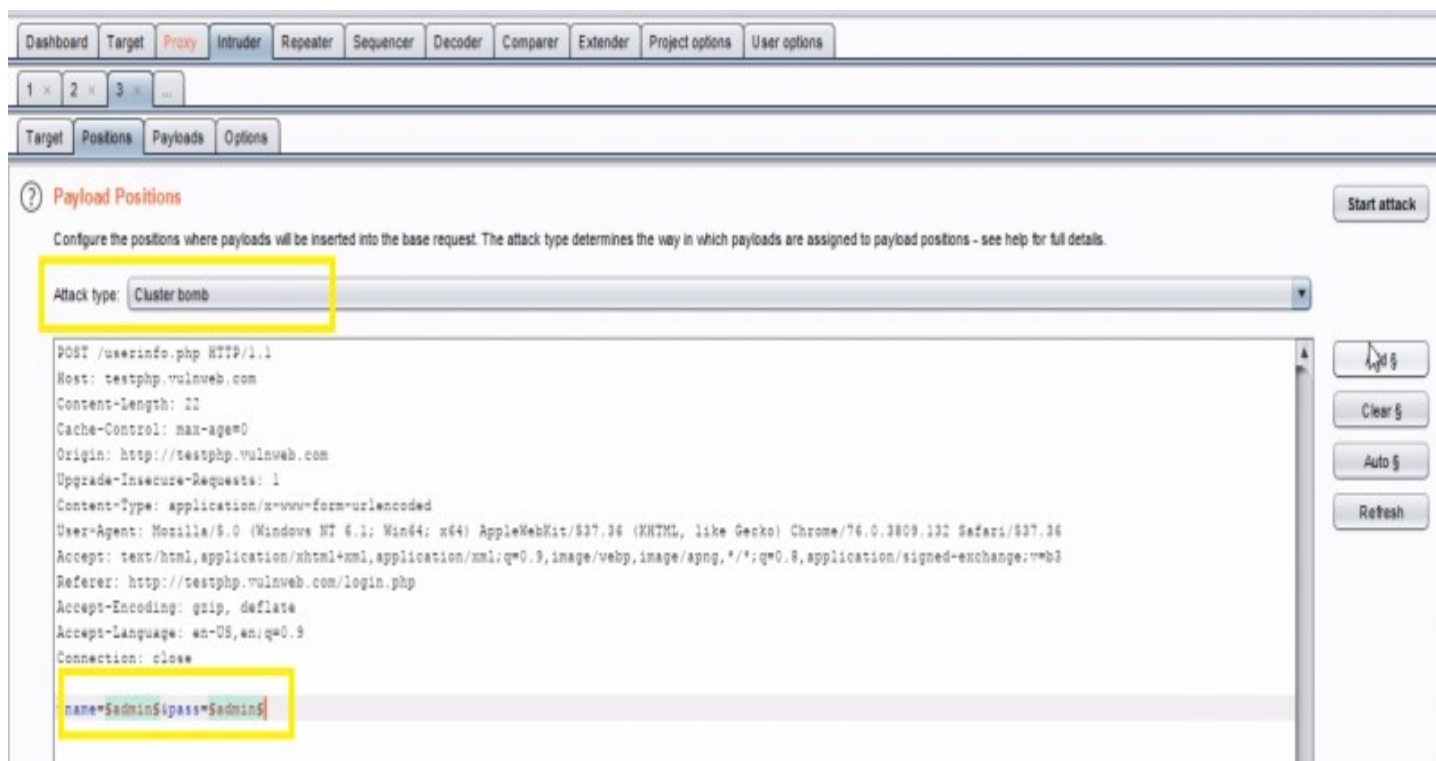


Right click on the request to bring up the context menu and click “Send to Intruder”.



Then select the Positions tab and follow the below steps

1. Change the attack to “**Cluster bom*b**” using the “**Attack type**” drop down menu.
2. Clear the pre-set payload positions by using the “**Clear**” button on the right of the request editor and click add for set payload.



Go to the “**Payloads**” tab. In the “**Payload sets**” settings, ensure “**Payload set**” is “**1**” and “**Payload type**” is set to “**Simple list**”.

In the “**Payload options**” settings enter some possible usernames. You can do this manually or use a custom or pre-set payload list.

Dashboard **Target** **Proxy** **Intruder** **Repeater** **Sequencer** **Decoder** **Comparer** **Extender** **Project options** **User options**

1 2 3

Target **Positions** **Payloads** **Options**

1 Payload Sets Start attack

You can define one or more payload sets. The number of payload sets depends on the attack type defined in the Positions tab. Various payload types are available for each payload set, and each payload type can be customized in different ways.

Payload set: 1 Payload count: 10

Payload type: Simple list Request count: 0

2 Payload Options [Simple list]

This payload type lets you configure a simple list of strings that are used as payloads.

Paste Load ... Remove Clear Add Add from list ... [Pro version only]

123456
password
test
admin
12345678
qwerty
123456789
12345
1234

Next, in the “Payload Sets” options, change “Payload” set to “2”. In the “Payload options” settings enter some possible passwords. You can do this manually or using a custom or pre-set list.

Dashboard **Target** **Proxy** **Intruder** **Repeater** **Sequencer** **Decoder** **Comparer** **Extender** **Project options** **User options**

1 2 3

Target **Positions** **Payloads** **Options**

1 Payload Sets Start attack

You can define one or more payload sets. The number of payload sets depends on the attack type defined in the Positions tab. Various payload types are available for each payload set, and each payload type can be customized in different ways.

Payload set: 2 Payload count: 10

Payload type: Simple list Request count: 100

2 Payload Options [Simple list]

This payload type lets you configure a simple list of strings that are used as payloads.

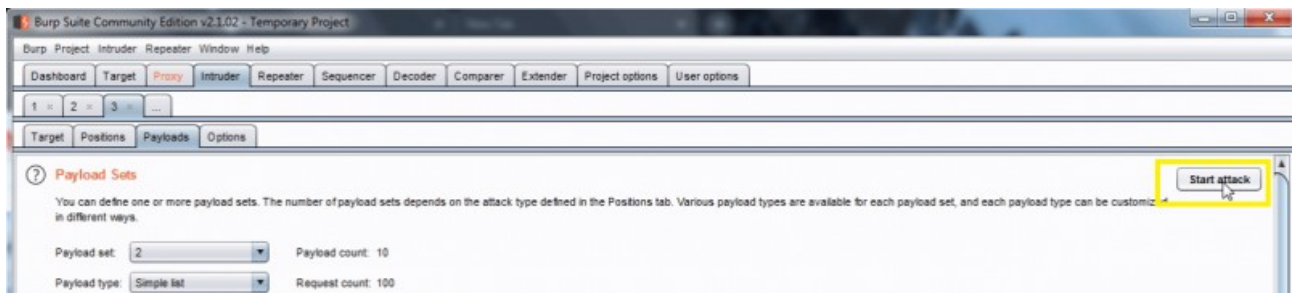
Paste Load ... Remove Clear Add Add from list ... [Pro version only]

123456
password
test
admin
12345678
qwerty
123456789
12345
1234

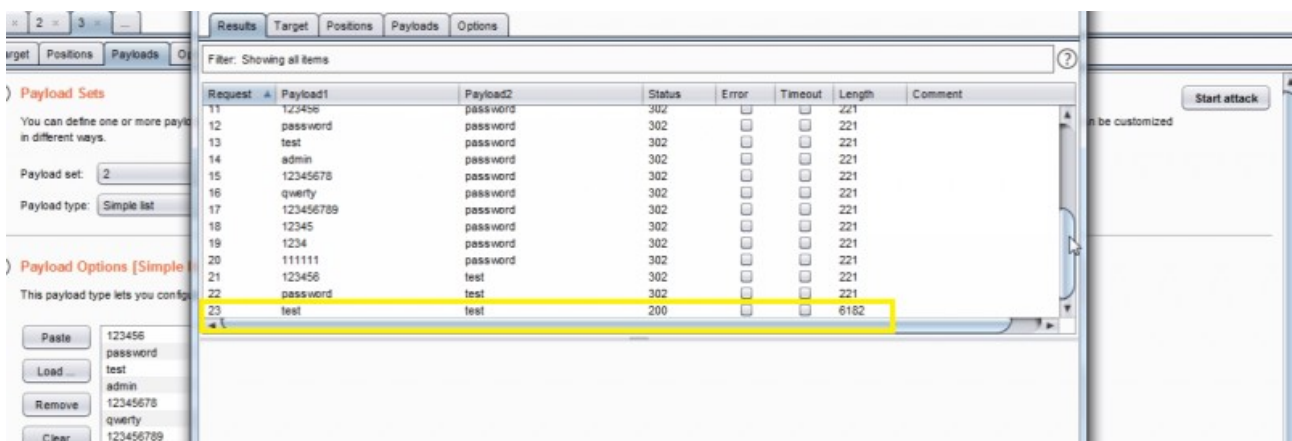
3 Payload Processing

You can define rules to perform various processing tasks on each payload before it is used.

Click the “**Start attack**” button.



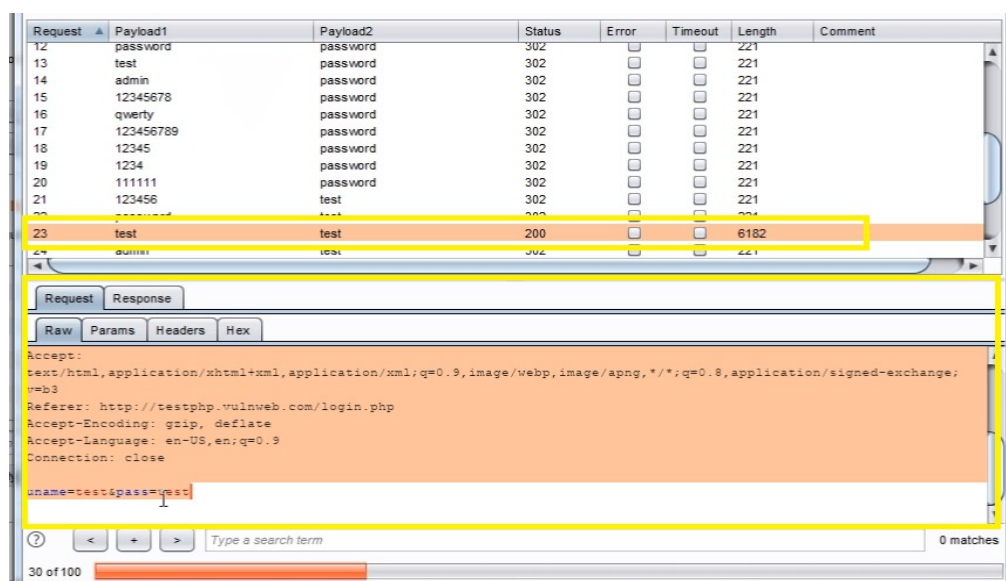
In the “**Intruder attack**” window, you can sort the results using the column headers. In this example sort by “Length” and by “Status”.



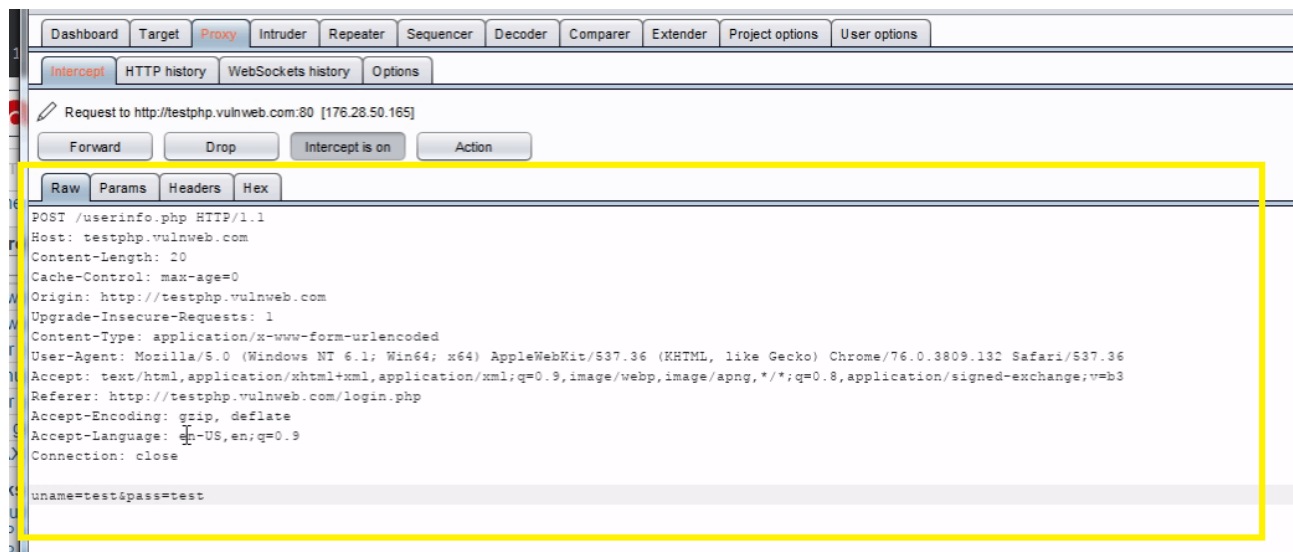
The table now provides us with some interesting results for further investigation.

By viewing the response in the attack window we can see that request 6182 is logged in as “test”.

To confirm that the brute force attack has been successful, use the gathered information (username and password) on the web application’s login page. Copy the **Raw** text of request.



Paste the Raw text request in the **Proxy tab > Intercept > Raw**



Click on **forward request** and see the **result** .

