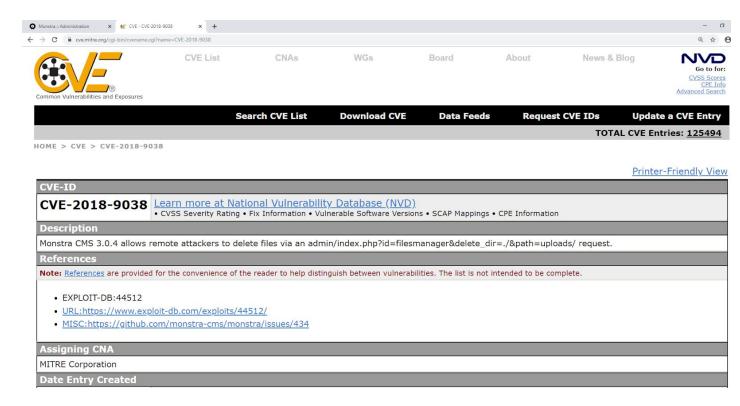
Name	CVE-2018-9038
URL	https://www.attackdefense.com/challengedetails?cid=350
Туре	Webapp CVEs : 2018

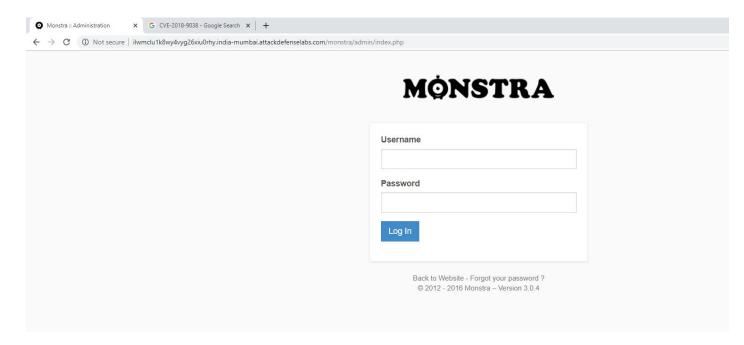
Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Solution:

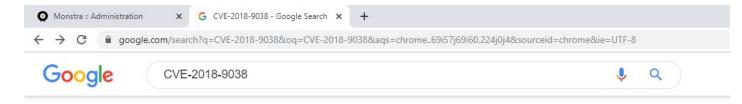
The web application is vulnerable to CVE-2018-9038



Step 1: Inspect the web application.



Step 2: Search on google "CVE-2018-9038" and look for publically available exploits.



CVE-2018-9038: Monstra CMS 3.0.4 allows remote attackers ...

https://www.cvedetails.com > cve > CVE-2018-9038 ▼

May 17, 2018 - **CVE-2018-9038**: Monstra CMS 3.0.4 allows remote attackers to delete files via an admin/index.php?id=filesmanager&delete_dir=.

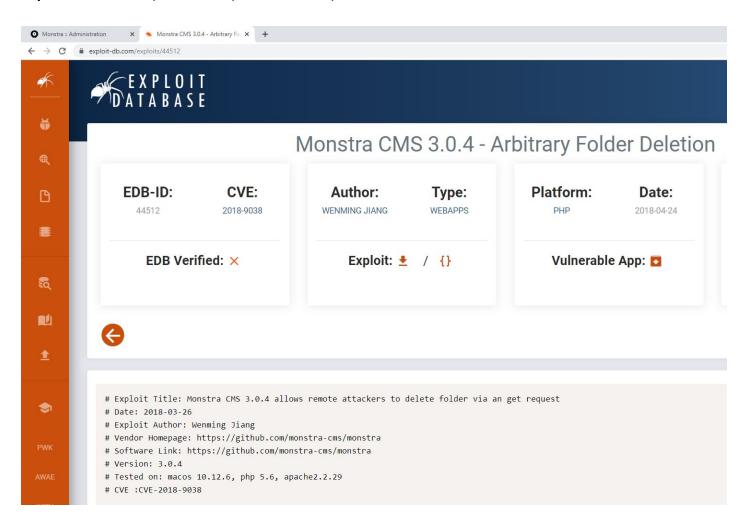
Monstra CMS 3.0.4 - Arbitrary Folder Deletion - PHP webapps ...

https://www.exploit-db.com > exploits ▼

Apr 24, 2018 - Monstra CMS 3.0.4 - Arbitrary Folder Deletion. **CVE-2018-9038** . webapps exploit for PHP platform.

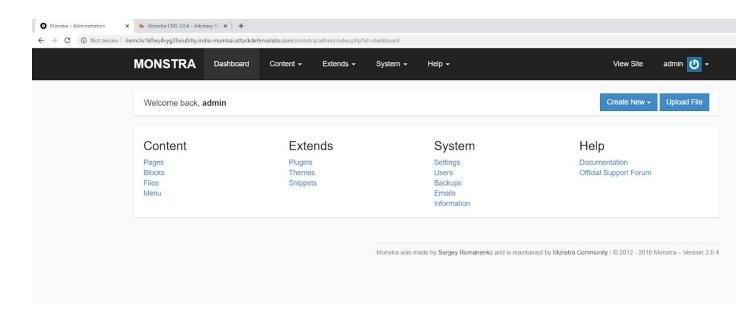
The exploit db link contains the information regarding the vulnerable parameter required to exploit the vulnerability.

Exploit DB Link: https://www.exploit-db.com/exploits/44512

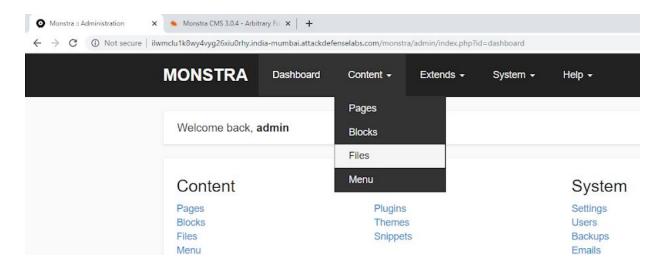


Step 3: The user has to authenticate in order to exploit the vulnerability. The login credentials of the web application are provided in the challenge description.

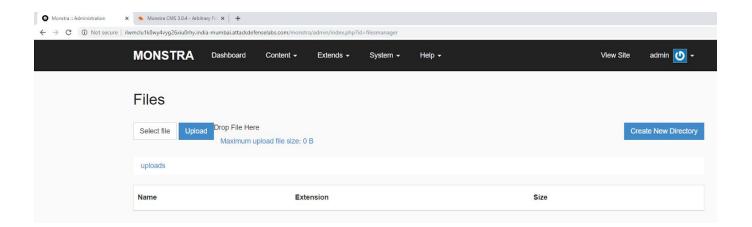
Username: adminPassword: password



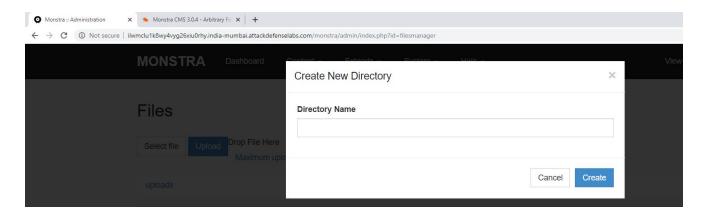
Step 4: Click on "Files" button from the Content drop down.



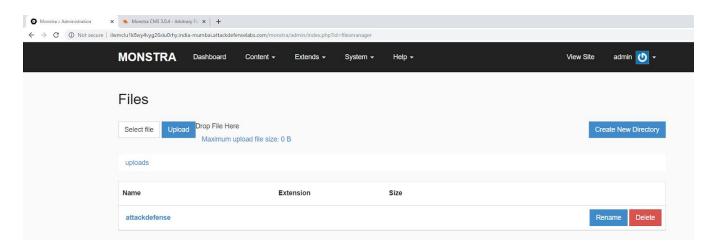
File Manager:



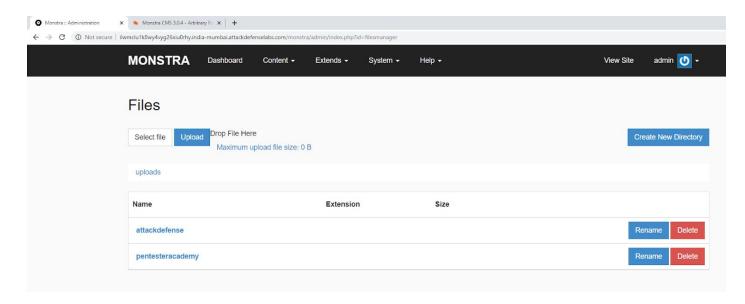
Step 5: Create two new directories. Click on the "Create New Directory" button.



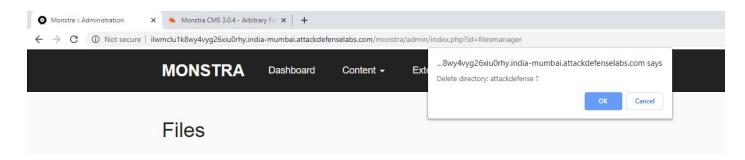
Enter "attackdefense" in the directory name and click on "Create" button.



Similarly create a directory named "pentesteracademy".



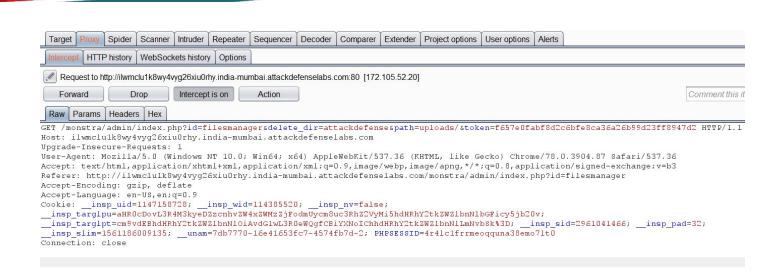
Step 6: Click on the Delete button of any of the repository and intercept the request with burp suite.



Click on OK button and the request will be intercepted

Check Appendix to learn how to configure Burp Suite.

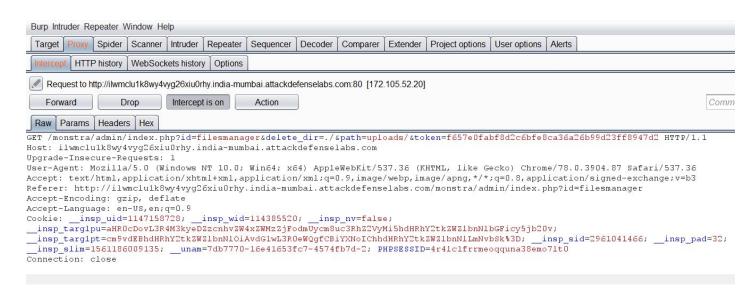
Intercepted Request:



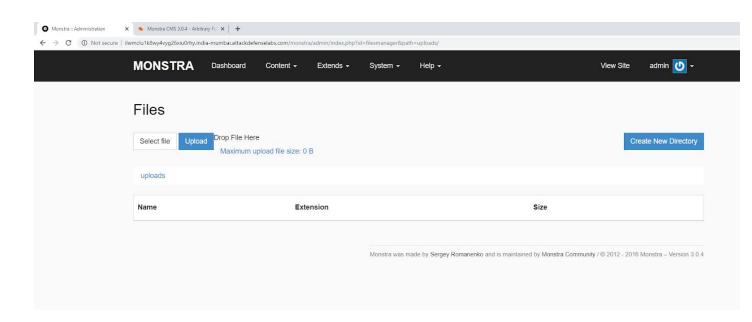
Step 7: Modify the value of delete_dir parameter to delete the current directory instead of a specified folder.

Original Value: attackdefense

Modified Value: /

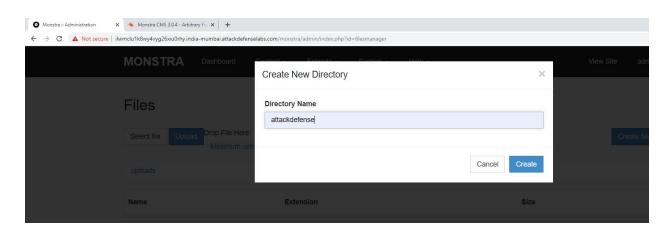


Step 8: Forward the request and turn off the intercept.

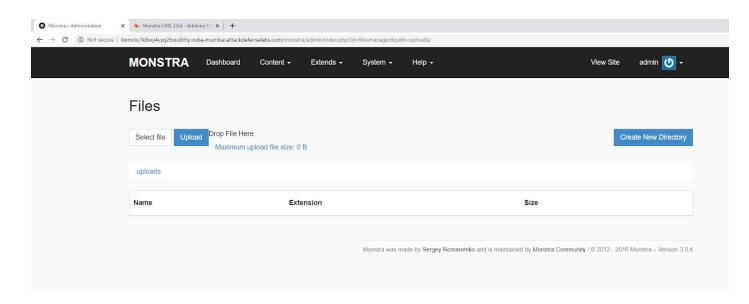


Step 9: The created directories will no longer be listed. Check whether new directories can be created or not. Click on "Create New Directory"

Enter "attackdefense"



Click on "Create" button.



The directory will not be created as the current directory itself no longer exists.

References:

- 1. Monstra CMS (https://monstra.org/)
- 2. CVE-2018-9038 (https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-9038)
- 3. Monstra CMS 3.0.4 Arbitrary Folder Deletion (https://www.exploit-db.com/exploits/44512)

Appendix

Appendix A: Configuration for Windows OS

A.1 Google Chrome with Burp Suite

A.2 Mozilla Firefox with Burp Suite

Appendix B: Configuration for Kali OS

B.1 Google Chrome with Burp Suite

B.2 Mozilla Firefox with Burp Suite

Appendix C: Configuration for FoxyProxy Standard plugin

C.1 FoxyProxy on Google Chrome with Burp Suite

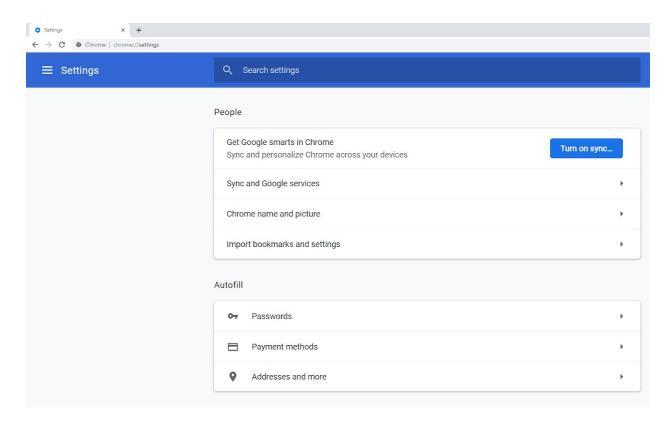
C.2 FoxyProxy on Mozilla Firefox with Burp Suite

Appendix A

A.1 Google Chrome with Burp Suite (Windows OS)

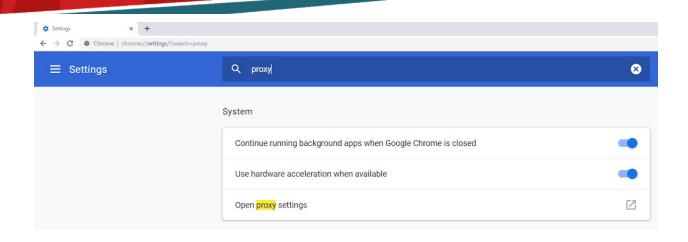
Step 1: Open Google Chrome and navigate to the URL given below.

URL: chrome://settings

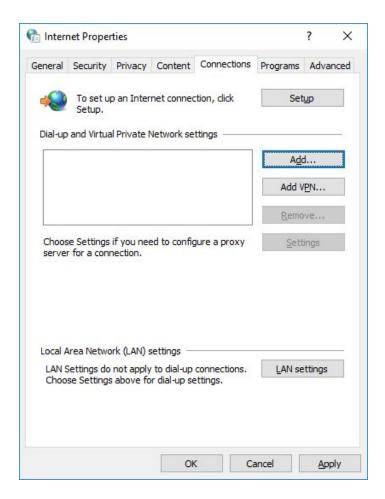


Google Chrome Settings page will appear.

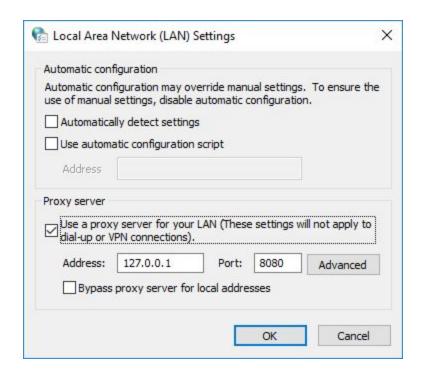
Step 2: Search for "proxy" in the search box.



Step 3: Upon clicking on "Open proxy settings", Windows "Internet Properties" settings dialog box will appear. Click on "LAN settings" button.



Step 4: Select the checkbox "Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections)". And enter "127.0.0.1" and "8080" in "Address" textbox and "Port" textbox respectively.

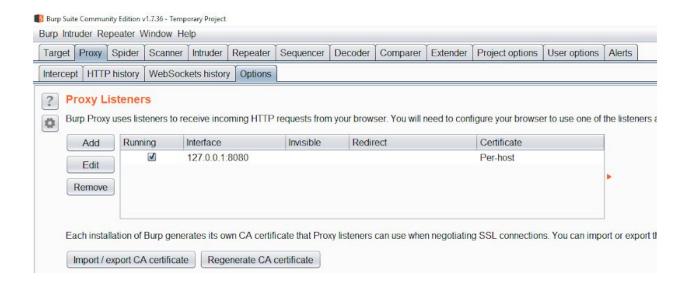


Click "OK" on the "Local Area Network (LAN) Settings" dialog box and close the "Internet Properties" dialog box.

Step 5: Start Burp suite.



Step 6: Navigate to "Options" tab under "Proxy" tab and verify that the "running" checkbox is selected for the interface "127.0.0.1:8080".

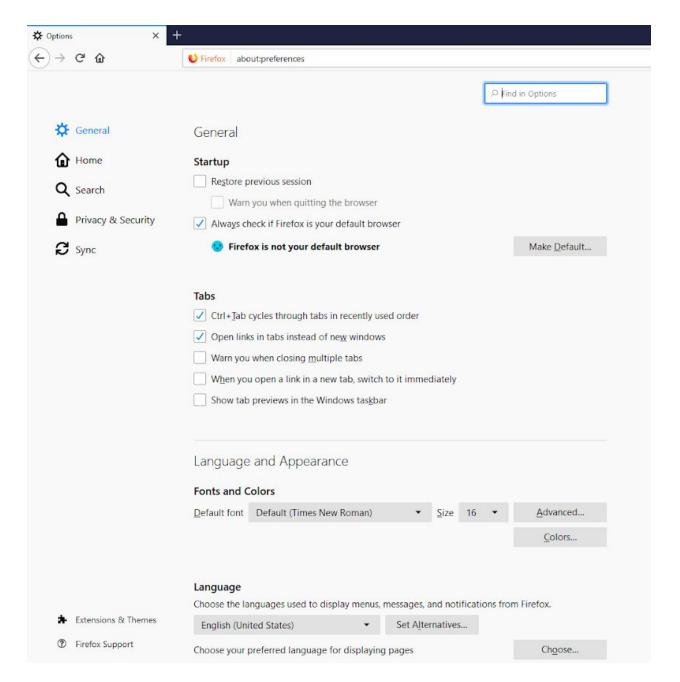


All the HTTP request made by Google Chrome will be intercepted by Burp Suite.

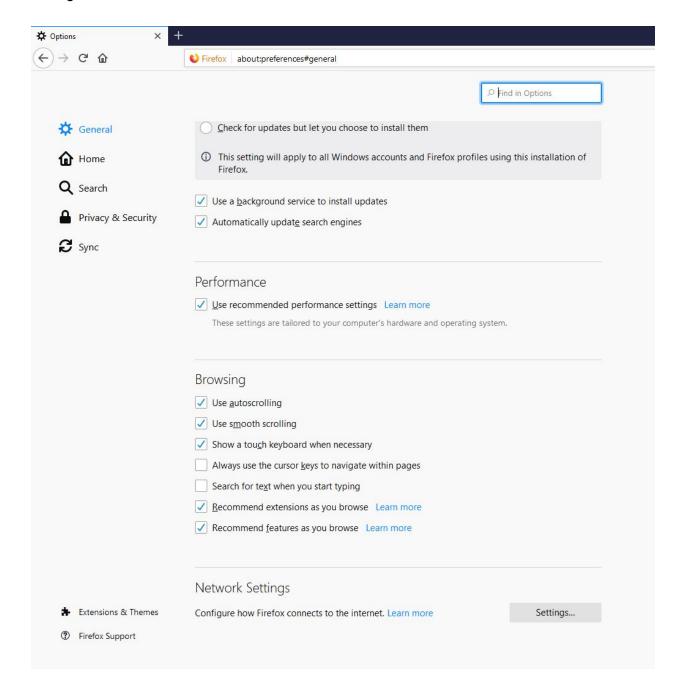
A.2 Mozilla Firefox with burp suite (Windows OS)

Step 1: Open Mozilla Firefox and navigate to the URL given below.

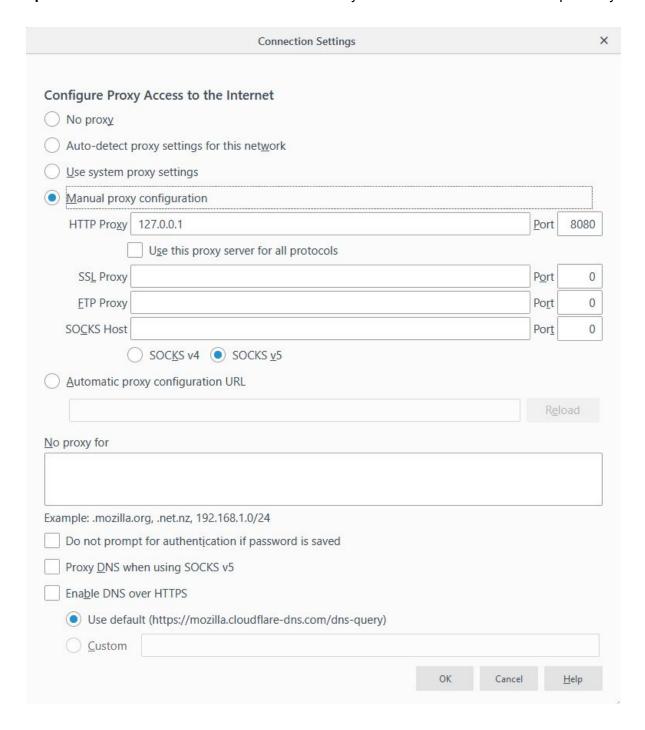
URL: about:preferences



Step 2: Scroll down to the bottom of the page and click on "Settings" button under "Network Settings" section.



Step 3: Enter "127.0.0.1" and "8080" in "HTTP Proxy" textbox and "Port" textbox respectively.



Click on the OK button.



Step 4: Start Burp suite.



Step 5: Navigate to "Options" tab under "Proxy" tab and verify that the "running" checkbox is selected for the interface "127.0.0.1:8080".



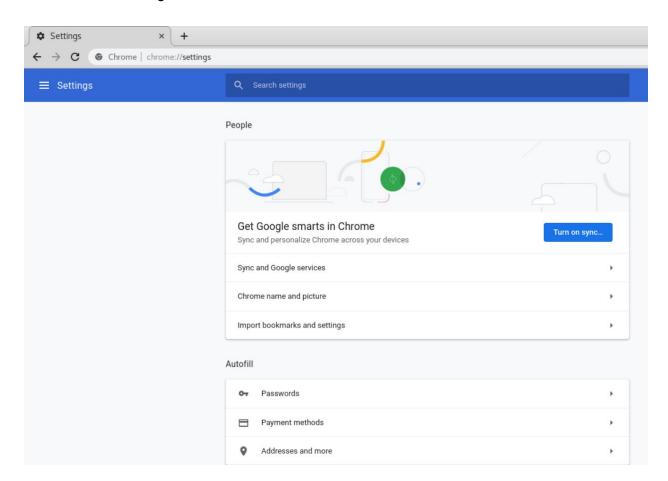
All the HTTP request made by Mozilla Firefox will be intercepted by Burp Suite.

Appendix B

B.1 Google Chrome with Burp Suite (Kali OS)

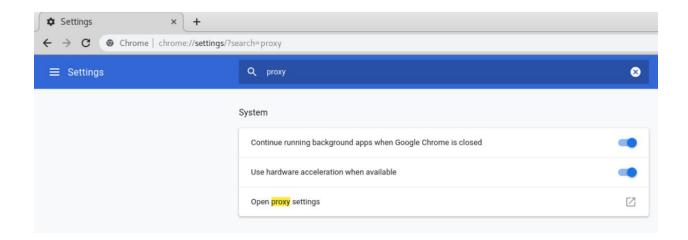
Step 1: Open Google Chrome and navigate to the URL given below.

URL: chrome://settings

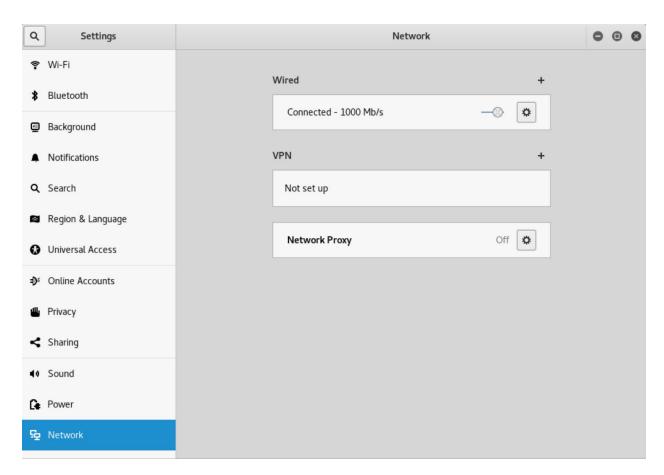


Google Chrome Settings page will appear.

Step 2: Search for "proxy" in the search box.

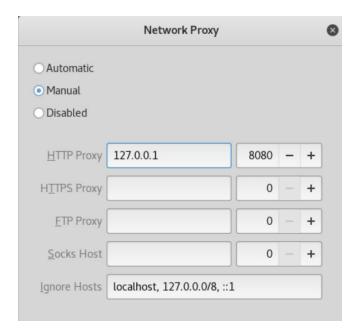


Step 3: Upon clicking on "Open proxy settings", The "Networks" settings window will appear. Click on Network Proxy option.





Step 4: Enter "127.0.0.1" in "HTTP Proxy" textbox and enter 8080 as port.

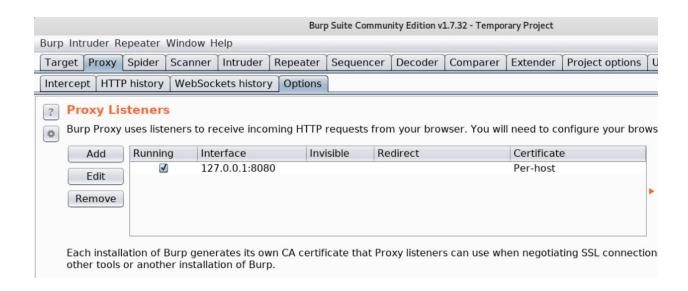


Close the dialog box.

Step 5: Start Burp suite.



Step 6: Navigate to "Options" tab under "Proxy" tab and verify that the "running" checkbox is selected for the interface "127.0.0.1:8080".

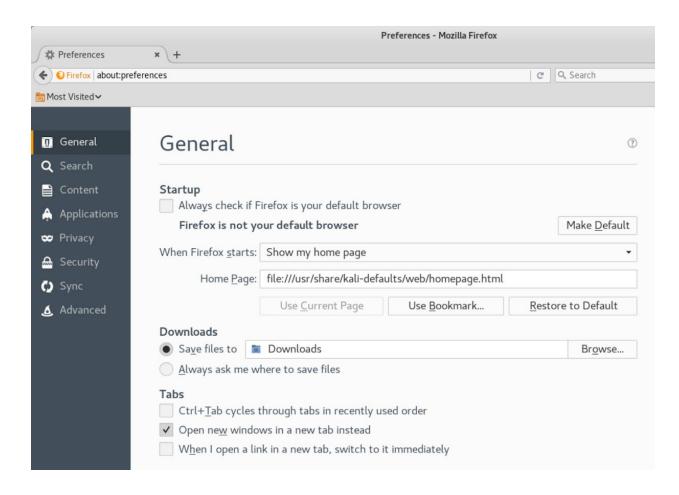


All the HTTP/HTTPS request made by Google Chrome will be intercepted by Burp Suite.

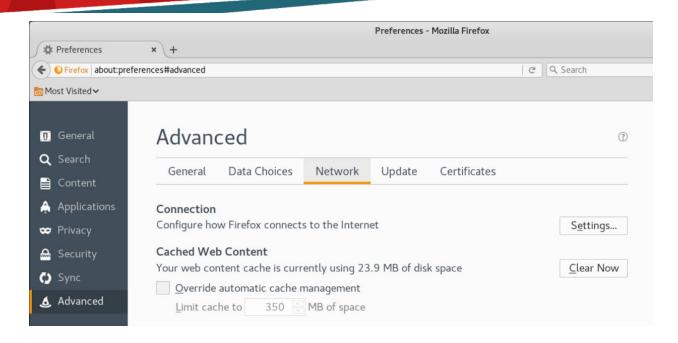
B.2 Mozilla Firefox with burp suite (Kali OS)

Step 1: Open Mozilla Firefox and navigate to the URL given below.

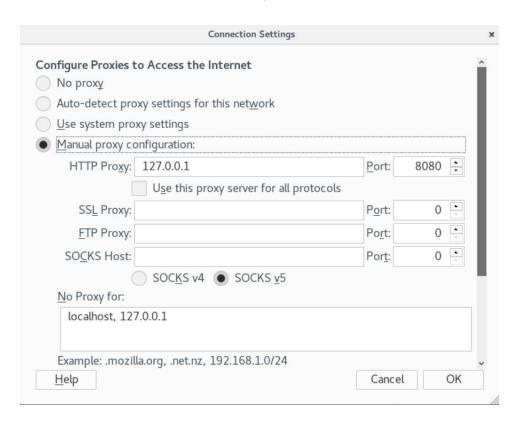
URL: about:preferences



Step 2: Click on "Advanced" tab on the left panel and then click on "Settings" button under "Network" tab.

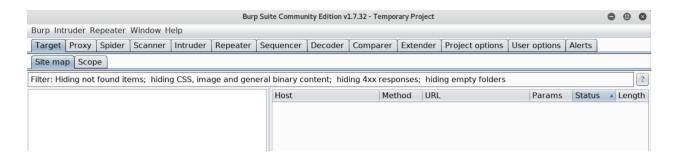


Step 3: Enter "127.0.0.1" and "8080" in "HTTP Proxy" textbox and "Port" textbox respectively.

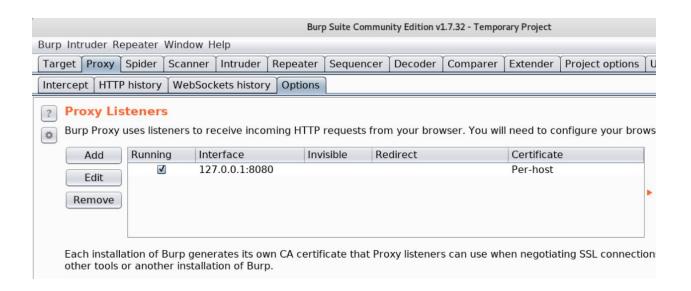




Step 4: Start Burp suite.



Step 5: Navigate to "Options" tab under "Proxy" tab and verify that the "running" checkbox is selected for the interface "127.0.0.1:8080".



All the HTTP request made by Mozilla Firefox will be intercepted by Burp Suite.

Appendix C

C.1 FoxyProxy on Google Chrome with Burp Suite

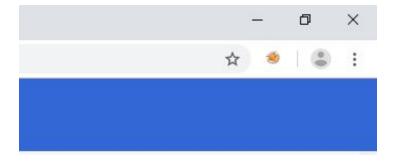
Step 1: Installing FoxyProxy.

FoxyProxy Standard plugin for Google Chrome can be installed from the URL given below:

URL:

https://chrome.google.com/webstore/detail/foxyproxy-standard/gcknhkkoolaabfmlnjonogaaifnjlfnp?hl=en

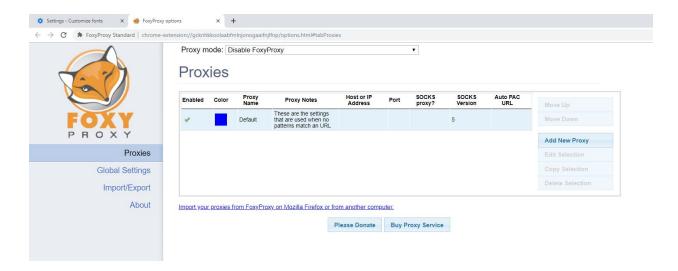
After installing FoxyProxy, a small fox icon will appear on the right side of the address bar.



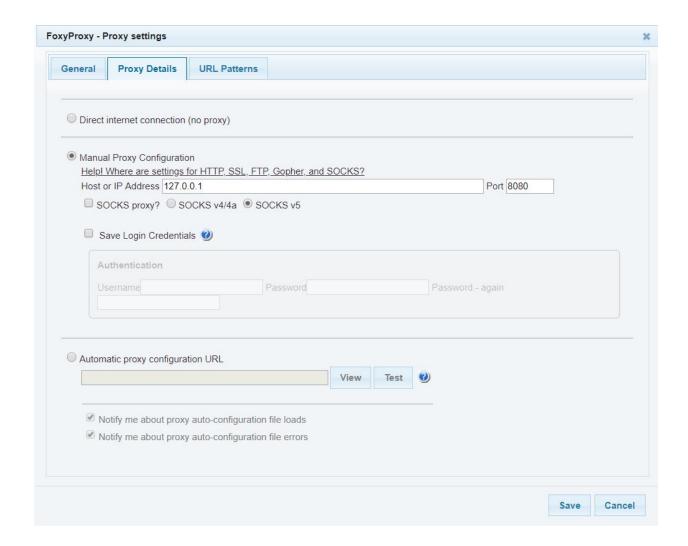
Step 2: Click on the FoxyProxy icon and click on Options.



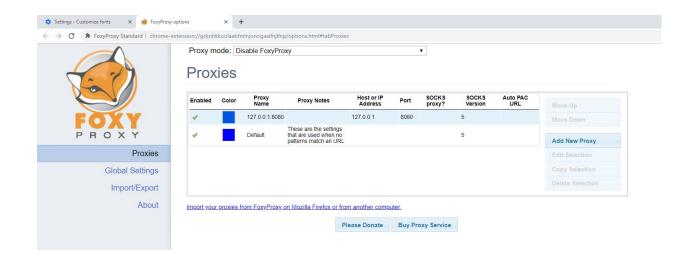
Step 3: Click on the "Add New Proxy" Button.



Step 4: Enter "127.0.0.1" in "Host or IP Address" textbox and enter "8080" in Port textbox.



Click on the Save button.



The configured proxy will appear in the proxies table.

Step 5: Enable the proxy.

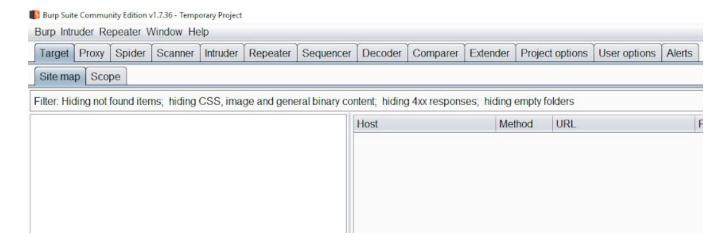
Click on the FoxyProxy icon and select the option "Use proxy 127.0.0.1:8080 for all URLs"



The FoxyProxy icon will change its color (In this case it is blue).



Step 6: Start Burp suite.



Step 7: Navigate to "Options" tab under "Proxy" tab and verify that the "running" checkbox is selected for the interface "127.0.0.1:8080".



All the HTTP/HTTPS request made by Google Chrome will be intercepted by Burp Suite.

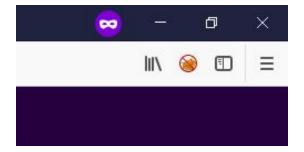
C.2 FoxyProxy on Mozilla Firefox with Burp Suite

Step 1: Installing FoxyProxy.

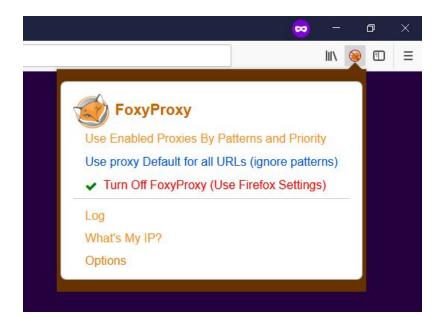
FoxyProxy Standard plugin for Mozilla Firefox can be installed from the URL given below:

URL: https://addons.mozilla.org/en-US/firefox/addon/foxyproxy-standard/

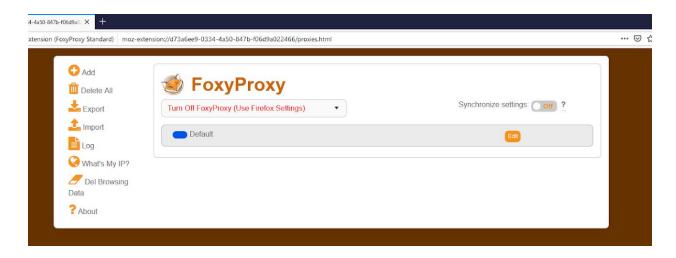
After installing FoxyProxy, a small fox icon will appear on the right side of the address bar.



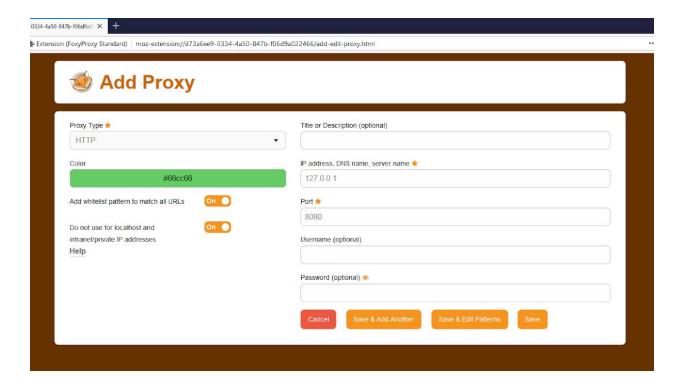
Step 2: Click on the FoxyProxy icon and click on Options.



Step 3: Click on the add button on the left panel



Step 4: Enter "127.0.0.1" in "IP Address, DNS name, server name" textbox and enter "8080" in Port textbox.



Click on the Save button.



The proxy will appear in the proxies table.

Step 5: Enable the proxy.

Click on the FoxyProxy icon and select the option "Use proxy 127.0.0.1:8080 for all URLs (ignore patterns)"



The FoxyProxy icon will change its color (In this case it is green).



Step 6: Start Burp suite.



Step 7: Navigate to "Options" tab under "Proxy" tab and verify that the "running" checkbox is selected for the interface "127.0.0.1:8080"



All the HTTP/HTTPS request made by Mozilla Firefox will be intercepted by Burp Suite.