**Lab – Configuring BurpSuite as a Proxy**

**Overview**

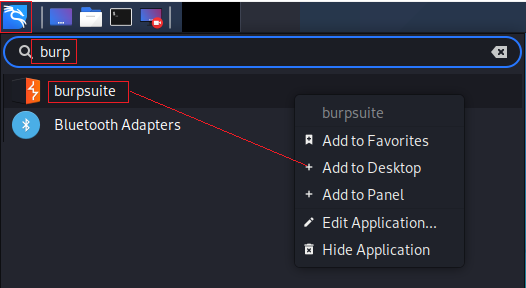
In this short lab, you will learn how to setup BurpSuite using a virtual install of Kali Linux. Burp or Burp Suite is a set of tools used for penetration testing of web applications. It is developed by the company named Portswigger, BurpSuite aims to be an all in one set of tools, and its capabilities can be enhanced by installing add-ons that are called BApps.

**Lab Requirements**

* Install of VirtualBox with the extension pack
* One updated, virtual install of Kali Linux
* Internet connection

**Introduction and first time run of BurpSuite.**

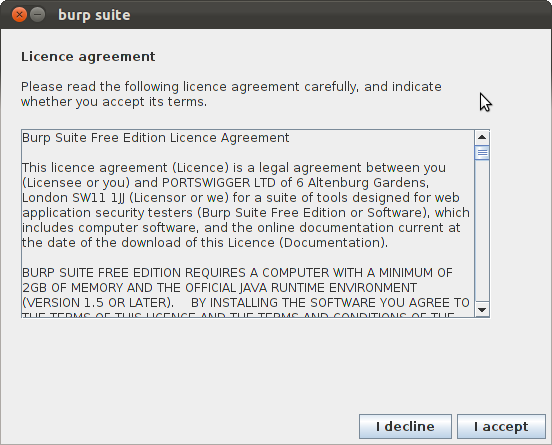
The free BurpSuite community edition comes preinstalled inside of Kali Linux. To access BurpSuite, click on the application launch icon in the upper left corner of your Kali desktop. In the search bar, type **burp,** and from the results, right-click on **burpsuite** and from the context menu, click on **Add to Desktop**.



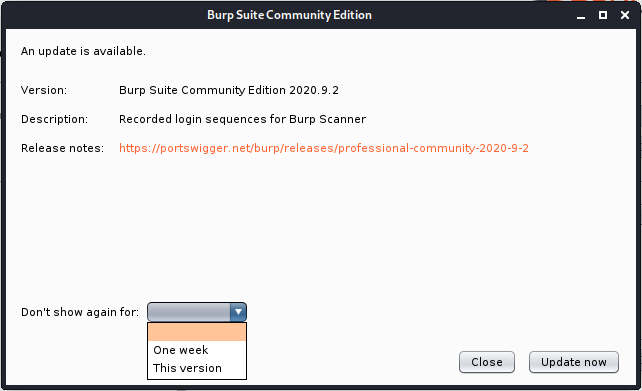
You should now see a shortcut for burbsuite sitting on your desktop. Click on the icon to launch burbsuite for the first time.



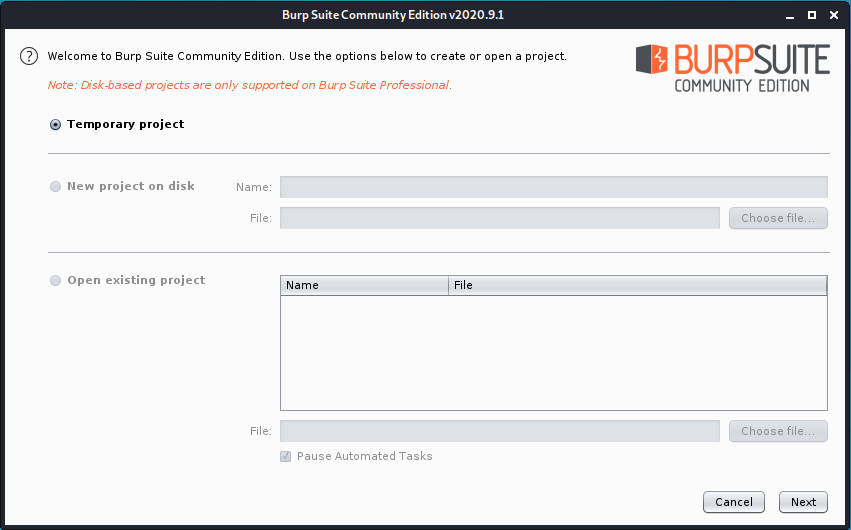
Accept the license agreement.



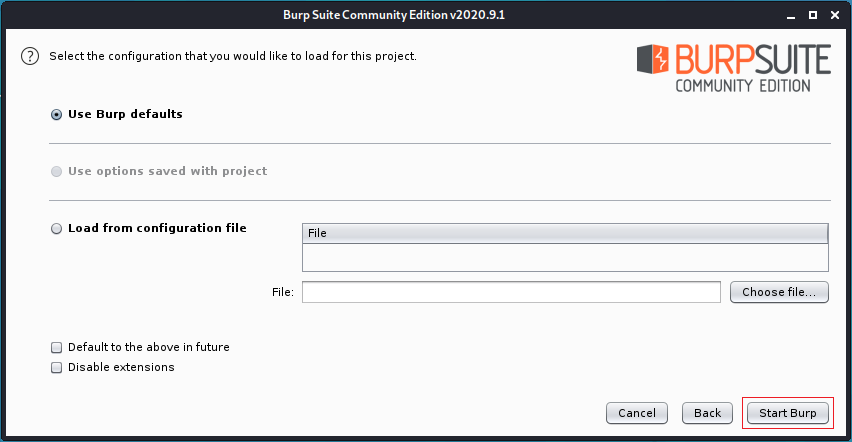
You may be prompted to update burpsuite. You may choose to update now or be prompted later by using **Don’t show again for:** option.



On the next screen, you are introduced to the first limitation of using the free edition as apposed to Burp Suite Professional; you cannot create a disk-based project, only a temporary project. Click next.

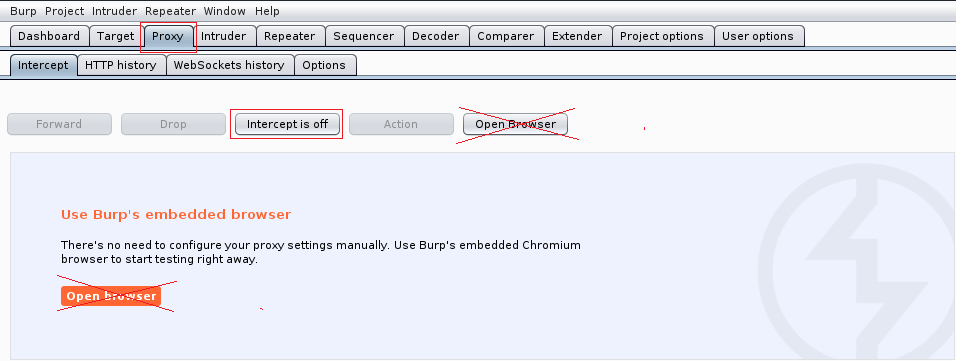


On the next screen, accept the default settings and click the Start Burp button.

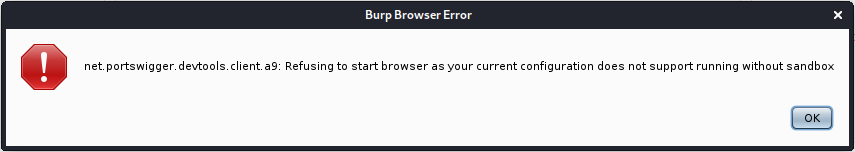


**Using the BurpSuite embedded browser (not!)**

In the burbsuite project window, click on the proxy tab.



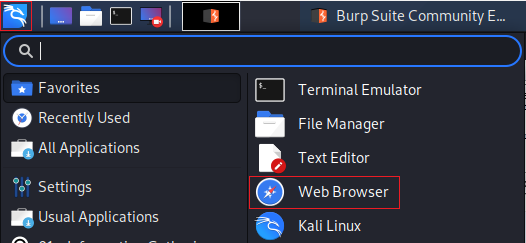
The idea of using the default browser that comes with burpsuite is to forgo the need to configure the proxy settings of your Kali browser. The burbsuite browser cannot be used as root; when you attempt to launch it, you will receive the following error message. But….



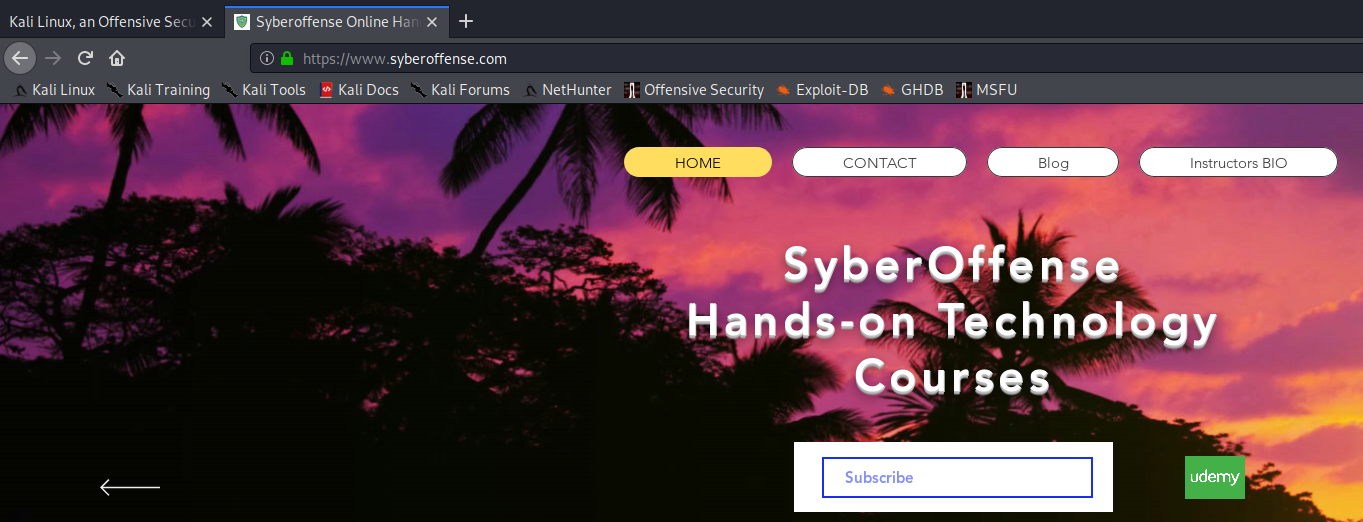
Even as a non-root user, the browser will not launch. Best to configure the proxy settings for your Kali browser to use burbsuite.

You can turn the intercept off for now.

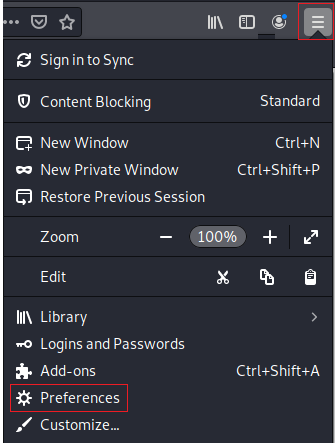
From the Kali application launch, open your Kali browser.



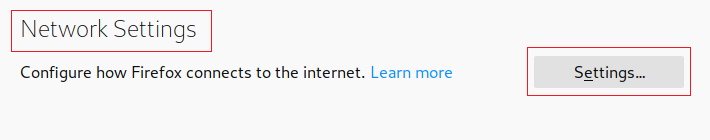
Test your browser to ensure you have Internet access and can access a website.



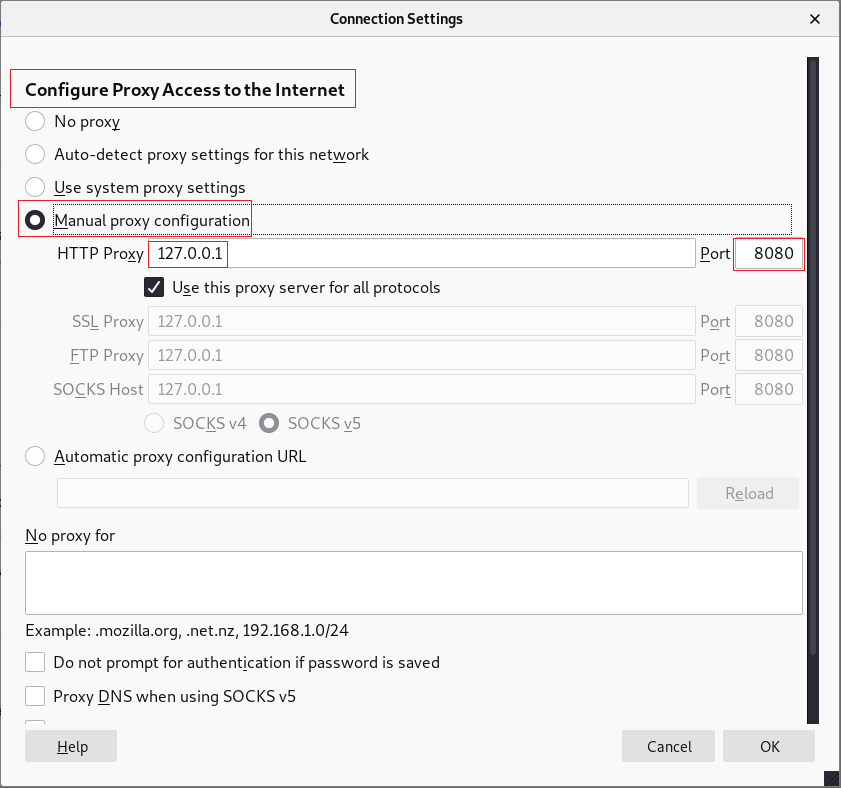
Over to the right of your browsers address bar, expand your browser settings and from the context menu, and from the context menu, select **Preferences**.

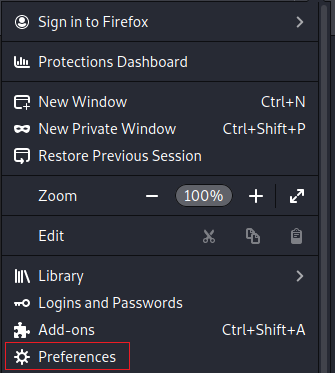


From the **General** page, scroll down until you come to **Network** **Settings**. Click on the **Settings** tab.

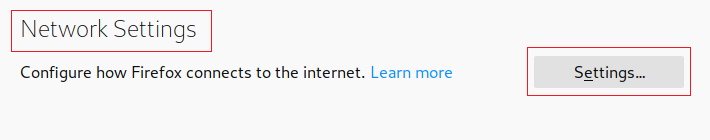


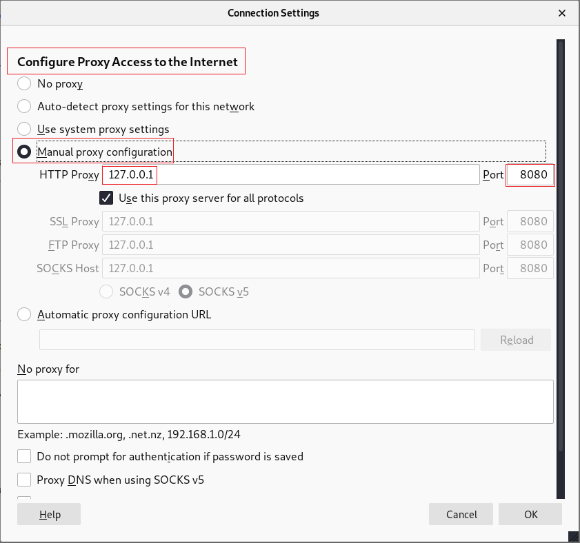
On the Configure Proxy Access to the Internet screen, select the radio button for, Manual proxy configuration. For the HTTP proxy, type in 127.0.0.1 and for the port type in 8080. Click OK.

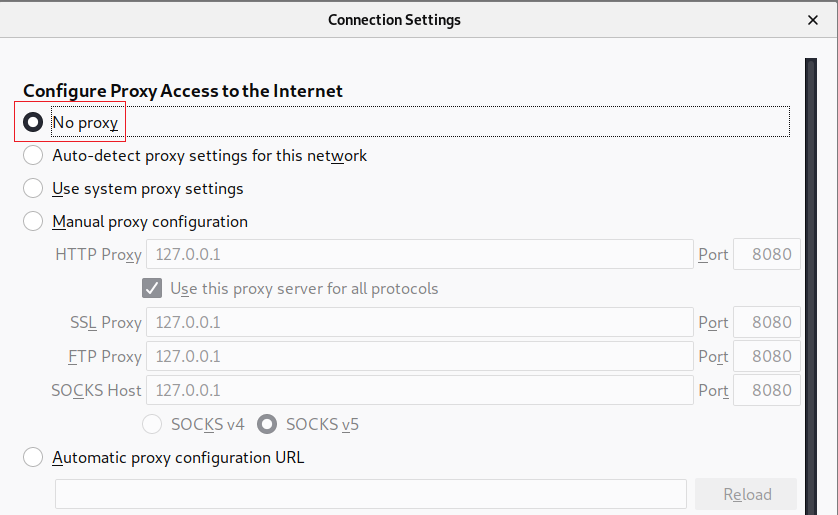




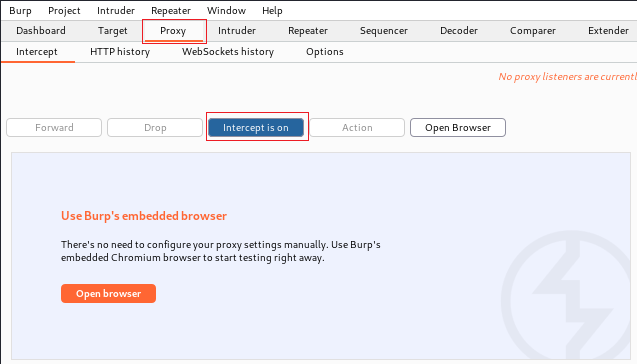
From the **General** page, scroll down until you come to **Network** **Settings**. Click on the **Settings** button.



On the **Configure Proxy Access to the Internet** screen, change the radio button from **No Proxy** to **Manual proxy configuration**. Ensure the HTTP proxy is set to 127.0.0.1 with the port set to 8080. Click OK.



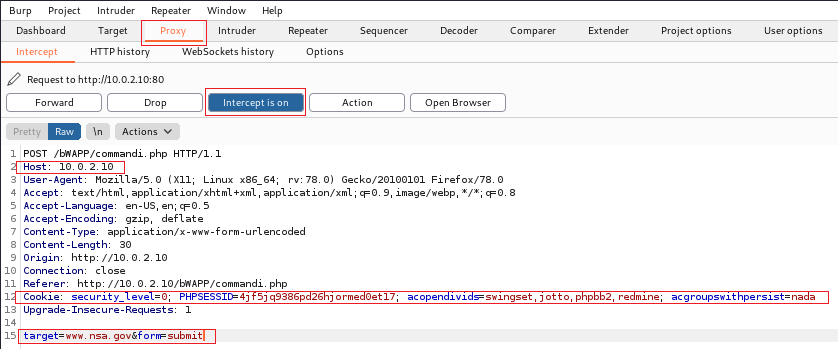
Launch Burp Suite.



Use your Kali browser to access. www.nsa.gov

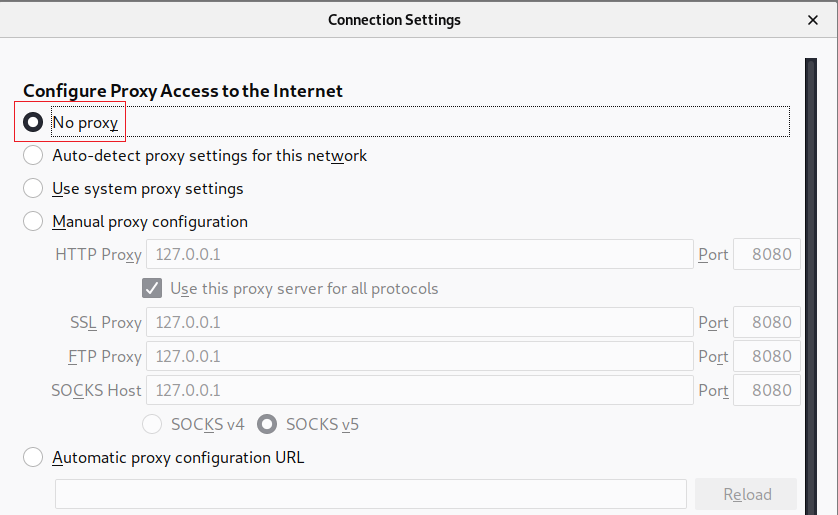
In the Intercept window, we can see the captured header.

You can modify the header information before forwarding the request.



If you turn the **Intercept** tooff, burpsuite will act as a normal proxy without holding up the request. For this to remain the case, burpsuite must be up and running.

If you do not want to use burpsuite as a proxy. You can set configure your browser preferences, for **No proxy**.



**Summary –**

In this lab, we learned how to set up and configure BurpSuite as a proxy. Burp Suite Community Edition is a feature-limited set of manual tools for exploring web security. Proxy your HTTPS traffic, edit and repeat requests, decode data, and more.