CYBER SECURITY
LAB 22

1. <u>**Write the Steps for Burpsuite installation and Intercept HTTP traffic with Burp Proxy**</u>

BURPSUITE

- Burp or Burp Suite is a set of tools used for **penetration testing of web applications**.
- The tool is written in Java and developed by **Port Swigger Web Security**.
- The tool has three editions:
1. A **Community Edition** that can be downloaded free of charge,
2. A **Professional Edition** and
3. An **Enterprise Edition** that can be purchased after a trial period.

- It is a collection of different tools which are brought together in a single application forperforming security testing of Web applications.
- Burp Suite is widely used by **penetration testers** to test and **identify different vulnerabilities** which are present in web applications and exploit them to fix those security issues.
- Burp Suite has a large number of features which **include proxy, intruder, repeater, sequencer, decoder, compare, and many more.**
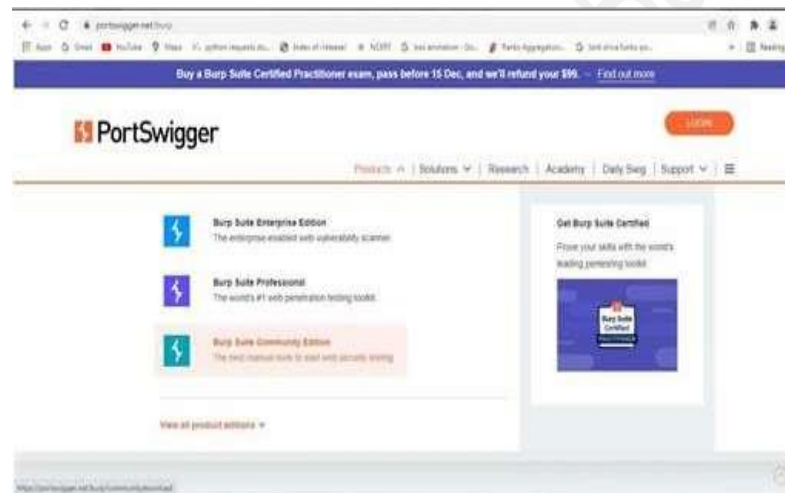
1. **Installing Burp Suite on Windows:**
   Follow the below steps to install Burp Suite on Windows:
   Step 1: Visit the official Burp Suite website (https://portswigger.net/burp) using any webbrowser.

Step 2: Click on Products, a list of different Burp Suites will open, choose Burp

suiteCommunity Edition as it is free, click on it.

Step 3: New webpage will open, which will ask for email id, and other option is Go Straight to downloads. Click on Go straight to downloads.

Step 5: Choose Burp suite Community Edition along with Windows (64-bit). Click on the download button, downloading of the executable file will start shortly. It is a big 210 MB filethat will take some time depending on download speed.

Step 6: Now check for the executable file in downloads in your system and run it.
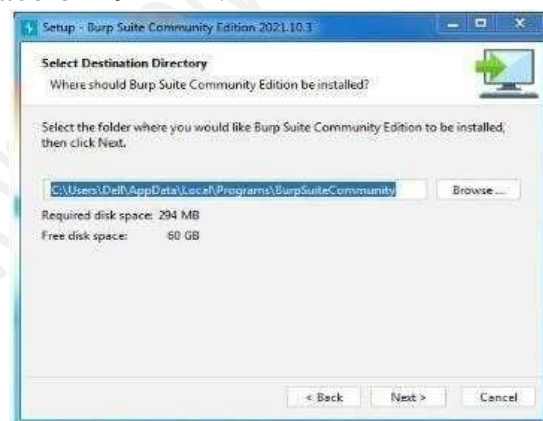

Step 7: Loading of Installation Wizard will appear which will take a few seconds.

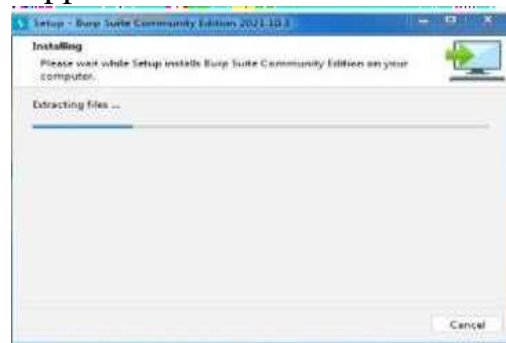**Step 8:** After this Setup screen will appear, click on Next.

Step 9: The next screen will be of installing location so choose the drive which will havesufficient memory space for installation.
It needed a memory space of 294 MB.

Step 10: Next screen will be of choosing Start menu folder so don't do anything just click onNext Button.

Step 11: After this installation process will start and will hardly take a minute to complete the installation.Application
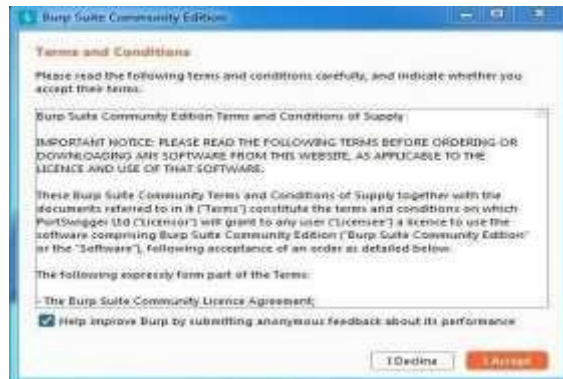

Step 12: Click on Finish after the installation process is complete.

Step 13: Burp suite is successfully installed on the system and an icon is created on thedesktop.

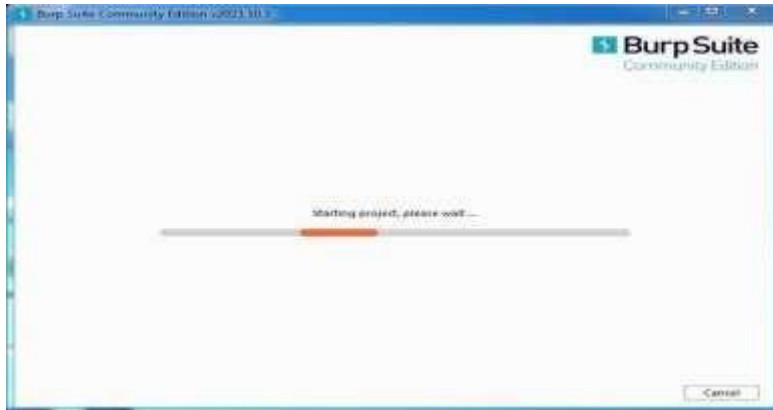**Step 14:** Run the software, screen containing terms and conditions will appear Click on IAccept.

Step 15: New screen containing information regarding the project will appear, Choosetemporary project and click Next.

Step 16: Next screen is about using default settings or loading from configuration file, clickon Use Burp Defaults.

Step 17: Project will start loading.

Step 18: Finally new project window will appear.

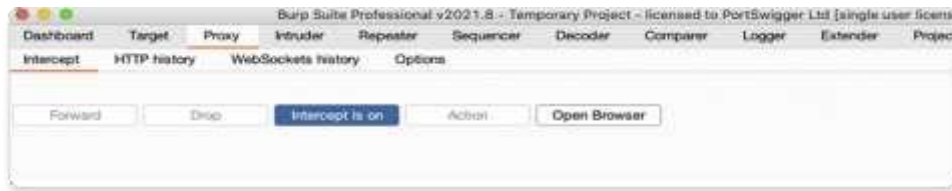Congratulations!! At this point, you have successfully installed Burp Suite on your windowssystem.

2. Intercept HTTP traffic with Burp Proxy

- Burp Proxy lets you intercept HTTP requests and responses sent between Burp's browserand the target server.
- This enables you to study how the website behaves when you perform different actions.

Step 1: Launch Burp's browser
Go to the **Proxy > Intercept** tab.

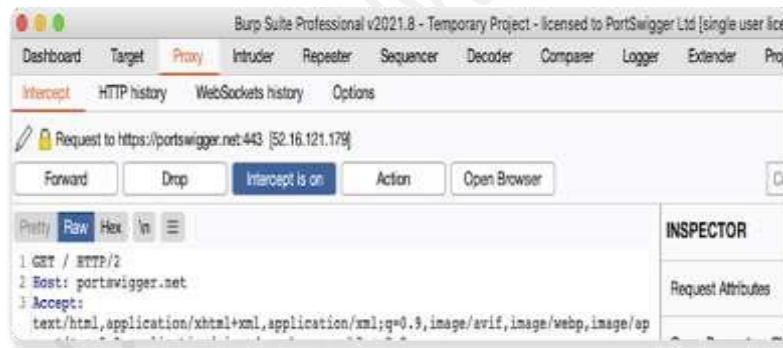Click the **Intercept is off** button, so it toggles to **Intercept is on.**

Click **Open Browser**. This launches Burp's browser, which is preconfigured to work withBurp right out of the box.
Position the windows so that you can see both Burp and Burp's browser.

Step 2: Intercept a request
Using Burp's browser, try to visit https://portswigger.net and observe that the site doesn'tload. Burp Proxy has intercepted the
HTTP request that was issued by the browser before it could reach the server. You can seethis intercepted request on the **Proxy > Intercept** tab.

The request is held here so that you can study it, and even modify it, before forwarding itto the target server.
Step 3: Forward the request
Click the **Forward** button several times to send the intercepted request, and any subsequent ones, until the page loads in Burp's browser.
Step 4: Switch off interception
Due to the number of requests browsers typically send, you often won't want to interceptevery single one of them. Click the **Intercept is on** button so that it now

says **Intercept is off**.

Go back to the browser and confirm that you can now interact with the site as normal.
Step 5: View the HTTP history