



Chapter 3

Installation of Burp Suit on Android Phone

INTRODUCTION TO BURP SUITE

Get ready to explore the fascinating world of Burp Suite from your Android phone. Burp Suite is an essential tool for web application security testing. It works by intercepting the communication between your device and the server whenever you access a website or app.

Here's how it works: When you interact with a website, like logging in, your browser sends a request to the server, and the server sends back a response. Burp Suite acts as a middleman, monitoring and capturing every request and response. Think of it as a magnifying glass that shows you exactly what's happening in the background.

REAL-LIFE EXAMPLE

Imagine you're logging into a banking website. You enter your username and password and click the Login button. Normally, this request goes

directly to the server to verify your details. But with Burp Suite, the request first passes through it, allowing you to see and edit the data being sent.

For instance, if the request contains a hidden parameter like `"user_role=customer,"` you can change it to `"user_role=admin"` using Burp Suite. Then you send the modified request to the server. The server processes it without realizing you've made changes.

This shows how Burp Suite lets you test how websites handle unexpected or altered inputs.

WHY DO WE NEED KALI LINUX FOR ETHICAL HACKING

Kali Linux is the go-to operating system for ethical hackers, and for good reason. It comes pre-installed with a variety of powerful tools and applications designed specifically for:

- ❖ **Penetration Testing:** Testing the security of systems and networks.
- ❖ **Vulnerability Analysis:** Identifying weaknesses that could be exploited by attackers.
- ❖ **Digital Forensics:** Analyzing and recovering data from devices in a secure manner.

These tools save a lot of time and effort. Instead of spending hours setting up and configuring individual tools, Kali Linux provides a ready-to-use environment. This allows ethical hackers to focus on the actual task at hand—improving system security—without worrying about technical barriers.

INSTALLATION OF BURP SUITE

Here are the steps required to Installation and Setup of Burp Suite:

Open Kali Linux

First of all, you need to open Kali Linux on your Android device. Launch Termux and run the command `nh -r` to open Kali Linux. Then, start the VNC server by running the command `kex &`. Finally, open the VNC Viewer app, and your Kali Linux interface will appear.

Install Burp Suite

To install Burp Suite, open the terminal in Kali Linux. Type the command `sudo apt install burpsuite` and press Enter. When prompted, type `y` to confirm and press Enter again. The installation process will download and install Burp Suite, which is about 300 MB. This might take 2–5 minutes depending on your internet speed.

SETTING UP BURP SUITE

Once installed, you need to set it up. Here are the steps:

Open Burp Suite

After installing Burp Suite, you need to open it. Click on the menu button in the top-left corner of Kali Linux. Search for "*Burp Suite*" in the search bar and click to open it.

Install FoxyProxy in Firefox

To connect Burp Suite with your browser, open the Firefox browser. Click on the three lines in the top-right corner and select "*Add-ons and themes*." In the search bar, type "*FoxyProxy Standard*" and press Enter. Once it appears in the results, click "*Add to Firefox*" to install the extension.

FoxyProxy is a tool that helps connect Burp Suite with your browser seamlessly.

Link Burp Suite and Firefox

To establish the connection between Burp Suite and Firefox, open the FoxyProxy extension by clicking its icon in the browser. Go to "*Options*"

and then click on "*Proxies*." Next, click the "*Add*" button and fill in the following details:

- **Title:** Write any name, such as "*Burp*."
- **Hostname:** Enter 127.0.0.1.
- **Port:** Enter 8080.

Save the settings. Finally, enable the proxy by clicking the FoxyProxy icon and activating it.

INSTALLING THE BURP SUITE CERTIFICATE

To work with HTTPS websites, you need to install a certificate from Burp Suite. Follow these simple steps:

Download the Certificate

Open Burp Suite, go to the Proxy tab, and turn on Intercept. Search for any link in your browser, and then click **CA Certificate** on the right side of Burp Suite to download it.

Import the Certificate

In your browser, go to Settings, search for "*Certificates*," and click View Certificates. Select Import, add the downloaded certificate, tick both checkboxes, and click OK.

That's it! Your Burp Suite is now ready to work with both HTTP and HTTPS websites.

CONCLUSION

Today, we explored Burp Suite's setup and learned how to make it functional for secure websites. As we move forward in this course, we'll perform real-world ethical hacking tasks. Use this power responsibly and ethically to make the internet a safer place.