



Creating Target Scopes in Burp Suite

1. Introduction

Burp Suite allows users to define a target scope to specify which hosts or URLs should be tested. By creating a scope, users can focus their testing efforts and avoid unintentionally interacting with out-of-scope targets. This is particularly important for ethical and legal considerations in penetration testing.

2. Importance of Defining Scope

Setting a clear target scope helps in:

- Ensuring ethical testing by limiting interactions to authorized systems.
- Avoiding accidental testing of unrelated or sensitive targets.
- Organizing and filtering data within Burp Suite tools (e.g., Proxy, Repeater, Scanner).

3. Accessing Target Scope Settings

To access and configure target scopes in Burp Suite:

1. Open Burp Suite and go to the 'Target' tab.
2. Click on the 'Scope' sub-tab.
3. Use the 'Include in scope' and 'Exclude from scope' sections to define target URLs or IP ranges.

4. Adding Items to Scope

You can add items to the target scope by:

- Right-clicking on a site in the 'Site map' and selecting 'Add to scope'.
- Manually entering a URL or IP address under the 'Include in scope' section.
- Using wildcards to define URL patterns (e.g., `http://example.com/*`).

5. Using Scope Effectively

After setting the scope, Burp Suite tools can be configured to operate only on in-scope items. This can be done in the 'Proxy', 'Spider', and 'Scanner' tools by enabling 'Use suite scope'. Scope filtering helps reduce noise and improves focus during security testing.

6. Best Practices

- Always confirm the scope with the client or supervisor before starting a test.

- Keep scope definitions updated if new components are added to the application.
- Use both 'Include' and 'Exclude' filters to tightly control testing boundaries.

7. Conclusion

Creating and managing target scopes in Burp Suite is a fundamental part of responsible and effective web application security testing. Proper scope configuration ensures compliance with ethical standards and enhances testing accuracy.

Browser-Specific Configuration Instructions

Firefox

1. Open Firefox and navigate to **Preferences > General**.
2. Scroll down to the **Network Settings** section and click **Settings**.
3. Select **Manual proxy configuration**.
4. Enter `127.0.0.1` in the **HTTP Proxy** field and `8080` in the **Port** field.
5. Check the box for **Use this proxy server for all protocols**.
6. Clear any entries in the **No proxy for** field.
7. Click **OK** to apply the settings.

Reference: [Configuring Firefox to work with Burp Suite](#)

Google Chrome

1. Open Chrome and go to **Settings**.
2. Scroll down and click on **Advanced** to expand advanced settings.
3. Under the **System** section, click **Open your computer's proxy settings**.
4. This will open your operating system's proxy settings:
 - o **Windows:** In the **Internet Properties** window, go to the **Connections** tab and click **LAN settings**.
 - o **macOS:** In the **Network** settings, select your active network connection and click **Advanced**, then go to the **Proxies** tab.
5. Enable the **Manual proxy configuration** option.
6. Set the **HTTP Proxy** to `127.0.0.1` and the **Port** to `8080`.
7. Apply the settings and close the dialog boxes.

Note: Chrome uses the system's proxy settings, so configuring the operating system's proxy settings will affect Chrome.