

Day 4 :

Task : study of price tampering method in order to find vulnerabilities in site.

Overview

Price tampering involves manipulating the price of a product or service on an e-commerce platform to pay a lower amount than the actual price. This kind of vulnerability can lead to significant financial losses for businesses and undermine customer trust. Studying price tampering techniques is crucial for security professionals to identify, prevent, and mitigate such threats.

Description

1. Understanding Price Tampering

Price tampering is a type of attack where a user alters the price of an item before purchasing it. This can be done through various methods such as manipulating the data sent to the server or altering the displayed price using browser developer tools.

2. Common Price Tampering Techniques

- Client-Side Manipulation: Attackers use browser developer tools to change the price on the client side before the transaction is sent to the server.**
- Parameter Tampering: The attacker intercepts and modifies the parameters being sent to the server, such as the price, using tools like Burp Suite or OWASP ZAP.**
- Hidden Field Manipulation: Some websites use hidden fields in forms to store the price. Attackers can modify these hidden fields before the form is submitted.**
- Cookie Manipulation: Prices stored in cookies can be tampered with if the cookies are not properly secured.**

3. Steps to Perform Price Tampering

- 1. Identify Target Website: Choose an e-commerce website to test, like 'Nuskhe by Paras.'**
- 2. Inspect Element: Use browser developer tools (e.g., Chrome DevTools) to inspect the webpage elements related to the price.**

3. **Modify Price:** Change the price value in the webpage elements or hidden fields.
4. **Intercept Requests:** Use a proxy tool like Burp Suite to intercept and modify the price parameters in HTTP requests.
5. **Submit Order:** Complete the purchase process to see if the manipulated price is accepted.

4. Detecting and Preventing Price Tampering

- **Server-Side Validation:** Always validate prices on the server side. Do not rely on client-side validation alone.
- **Secure Communication:** Use HTTPS to encrypt data between the client and server, preventing interception and modification of requests.
- **Parameter Integrity Checks:** Implement checksums or hash functions to ensure the integrity of parameters passed between the client and server.
- **Regular Security Audits:** Conduct regular security audits and penetration testing to identify and fix vulnerabilities.
- **Logging and Monitoring:** Implement comprehensive logging and monitoring to detect and respond to suspicious activities.

5. Tools for Testing

- **Burp Suite:** A comprehensive tool for web application security testing that allows interception and modification of web traffic.
- **OWASP ZAP:** An open-source tool for finding vulnerabilities in web applications.
- **Chrome DevTools:** Built-in browser tools for inspecting and modifying web pages

Conclusion

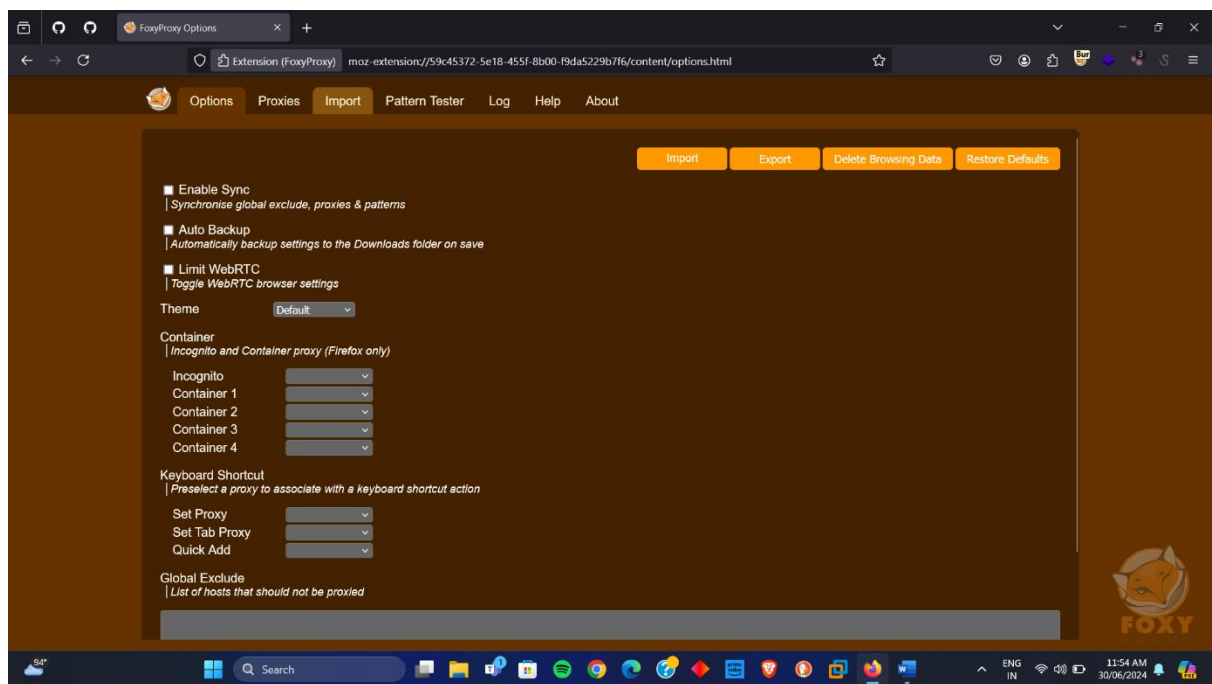
Price tampering is a critical security concern for e-commerce websites. By understanding and studying the methods attackers use, security professionals can better secure websites against such vulnerabilities. Implementing robust server-side validation, securing communications,

and conducting regular security audits are key measures to prevent price tampering.

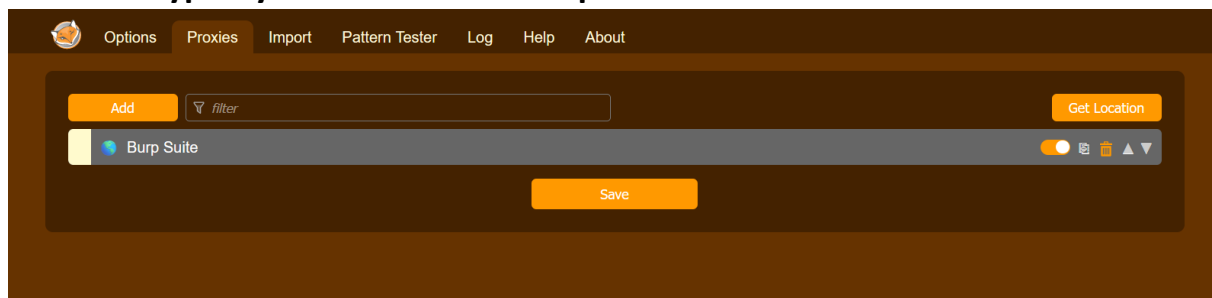
Task : perform price tempring technique on website name - nuskhe by paras and find out vulnerabilities in it .

#Steps To perform price tempring :

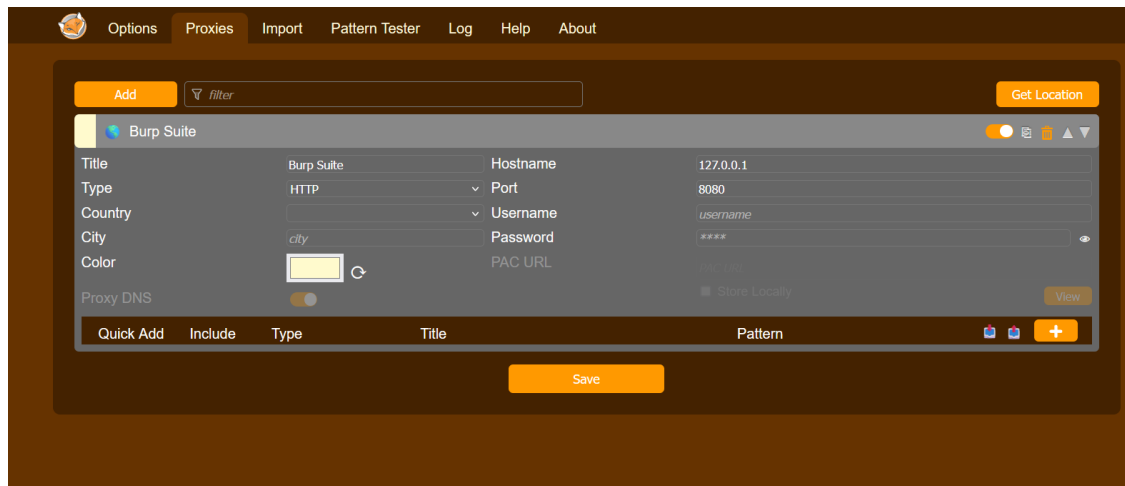
1. Open the browser firefox and open the extentions option.



2. Then find the extension name foxyproxy .
3. The next step is to configure the proxy settings . Go to options tab in froxyproxy and click the new option.

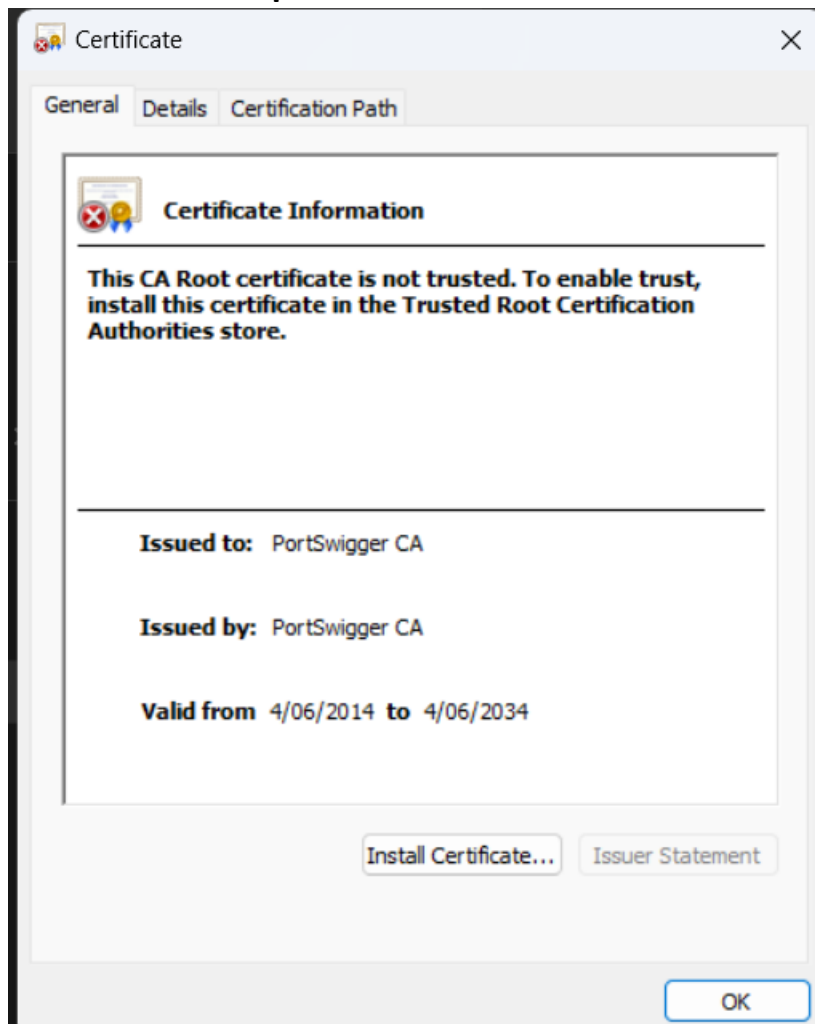


4. Now set the ip address to 127.0.0.1 , and username to burp and the name displayed set as burp .



5. Then click ok and select the add option.

6. Now the next step is to add the CA CERTIFICATE .



7. CA CERTIFICATE is important to make the Trusted and secure connection while searching.

8. And we done with all the steps Of configuration.

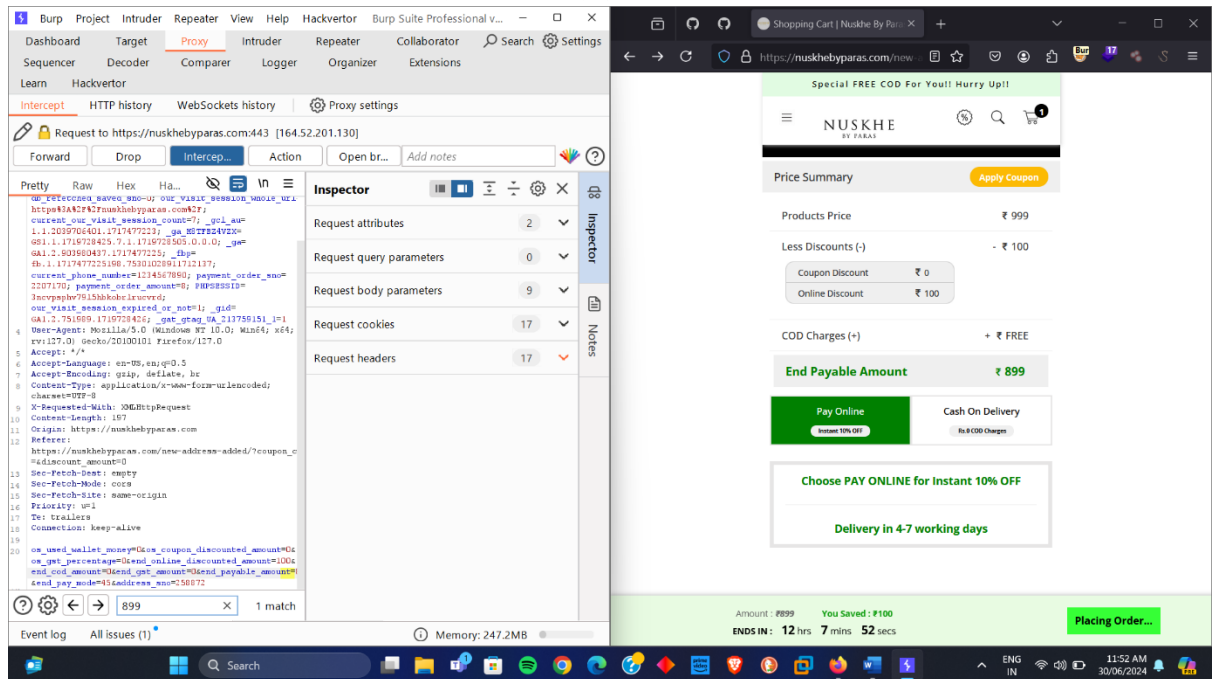
- Now open the Burpsuite, in my case I use Burpsuite professional Edition .its your choice you should opt the community edition also.

- Now open the Browser and search the website Nuskhe by paras .
- Simultaneously open the Burpsuite .
- Enable the froxyproxy Extension .

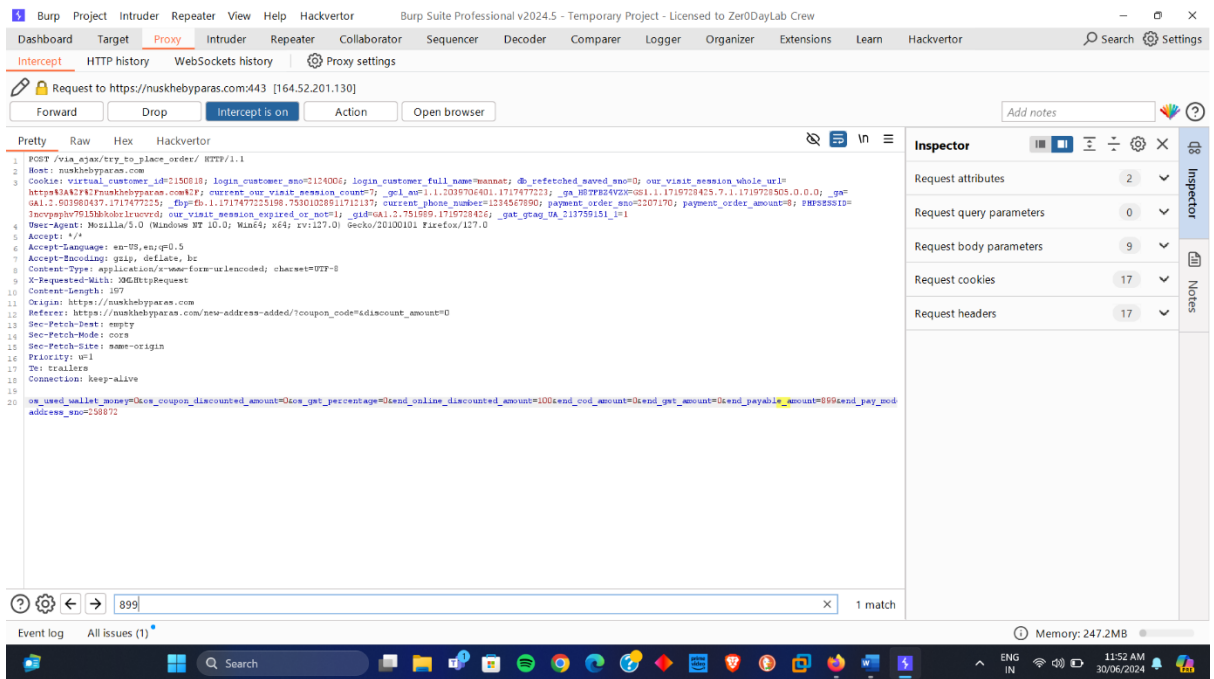
On Burpsuite make sure your intercept is on .

Steps to fetch and Temper the price .

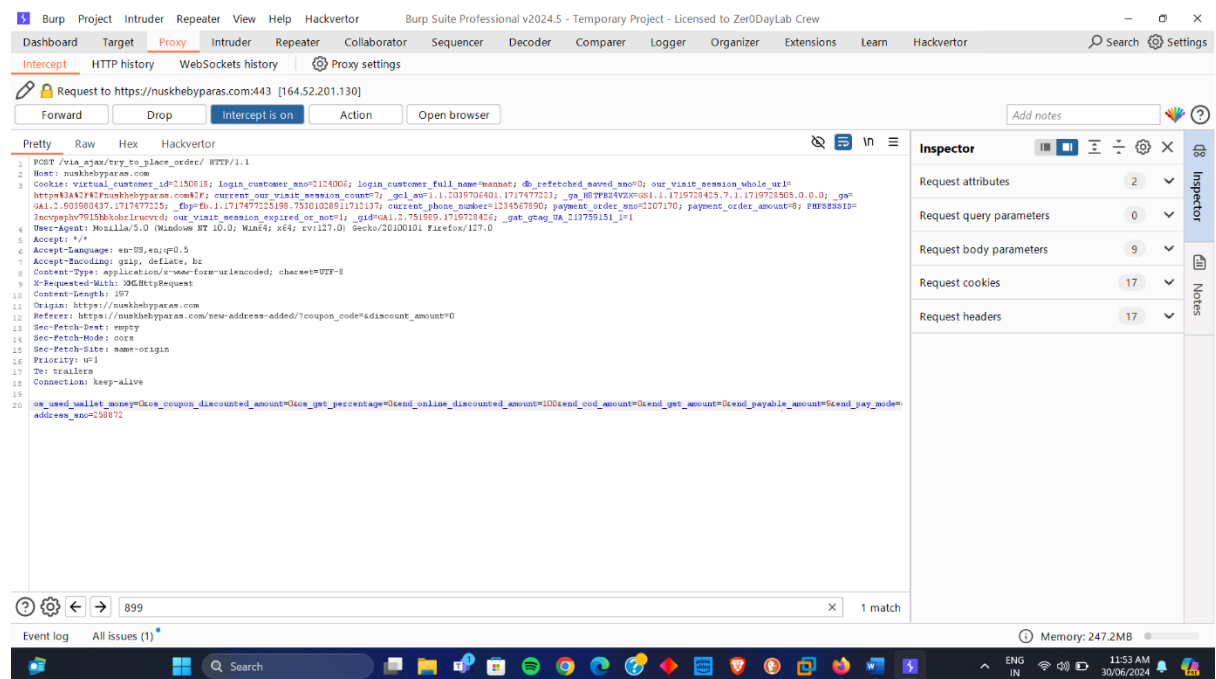
- Now enter the website and go for buy product now .



- And now add the personal details and and click on buy now option.
- Now look at the intercept section here your request is shown .
- Search for the price example (899) and ther's the highlighted text is shown.
- Now change the price and forward the request .



- Repeat the forward procedure till you reach the last empty section.



- That's all , now you observe that price is changed.



NUSKHE
BY PARAS

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2250699 : Secured Payment O...

₹ 8

English ▾



+919874563211 | orders@nuskhebypa...

PAY WITH UPI QR



Scan the QR using any UPI app on your phone.



PAYTM



QR Code is valid for
11:50 minutes

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