

IFS4103: Penetration Testing Practice

Lecture 4: Supplementary Slides on XSS

Outline

- Objectives
- Resources on Portswigger's Site
- Covered XSS Concepts
- Using Burp Suite for Testing XSS
(*With Similar Video Demos!*)

Objectives

Objectives of This Slide Deck

- To *supplement* the lecture & demonstration of XSS given by Ensign in Week 4:
 - Some of you mentioned that the given demo was **rather fast**
 - There were **no slides/notes** given on the demo
- To *share/highlight* **useful resources** that you can find within Portswigger's Web Security Academy site:
 - Review of various **web vulnerabilities**, including XSS
 - Steps and videos of using Burp Suite to **test & exploit XSS**
- To provide you with a *summary* of Lecture 4's class

Resources on Portswigger's Site

Resources on Portswigger Site

- **Useful resources** within Portswigger's Web Security Academy:
 - <https://portswigger.net/web-security/all-topics>
 - **Server-side topics:**
SQL injection, authentication, path traversal, command injection, business logic vulnerabilities, information disclosure, access control, file upload vulnerabilities, race conditions, server-side request forgery (SSRF), XXE injection, NoSQL injection, API testing
 - **Client-side topics:**
Cross-site scripting, Cross-site request forgery (CSRF), Cross-origin resource sharing (CORS), clickjacking, DOM-based vulnerabilities, WebSockets
 - **Advanced topics**
 - <https://portswigger.net/web-security/all-materials>

Web Security Academy: All Topics

Server-side topics

For complete beginners, we recommend starting with our server-side topics. These vulnerabilities are typically easier to learn because you only need to understand what's happening on the server. Our materials and labs will help you develop some of the core knowledge and skills that you will rely on time after time.

SQL injection

SQL injection is an old-but-gold vulnerability responsible for many high-profile data breaches. Although relatively simple to learn, it can potentially be used for some high-severity exploits. This makes it an ideal first topic for beginners, and essential knowledge even for more experienced users.

[Go to topic →](#)

18 Labs

Authentication

[Go to topic →](#)

14 Labs

Path traversal

[Go to topic →](#)

6 Labs

Command injection

[Go to topic →](#)

5 Labs

Business logic vulnerabilities

[Go to topic →](#)

11 Labs

Information disclosure

[Go to topic →](#)

5 Labs

Access control

[Go to topic →](#)

13 Labs

File upload vulnerabilities

[Go to topic →](#)

7 Labs

Race conditions

[Go to topic →](#)

6 Labs

Server-side request forgery (SSRF)

[Go to topic →](#)

7 Labs

XXE injection

[Go to topic →](#)

9 Labs

NoSQL injection

[Go to topic →](#)

4 Labs

API testing

[Go to topic →](#)

5 Labs

Web Security Academy: All Topics

Client-side topics

Client-side vulnerabilities introduce an additional layer of complexity, which can make them slightly more challenging. These materials and labs will help you build on the server-side skills you've already learned and teach you how to identify and exploit some gnarly client-side vectors as well.

Cross-site scripting (XSS)

Simply put, XSS is one of the most important vulnerabilities out there. It's both incredibly common and extremely powerful, especially when used as part of a wider exploit chain. This is a huge topic, with plenty of labs for complete beginners and seasoned pros alike.

[Go to topic →](#)

30 Labs

Cross-site request forgery (CSRF)

[Go to topic →](#)

12 Labs

Cross-origin resource sharing (CORS)

[Go to topic →](#)

4 Labs

Clickjacking

[Go to topic →](#)

5 Labs

DOM-based vulnerabilities

[Go to topic →](#)

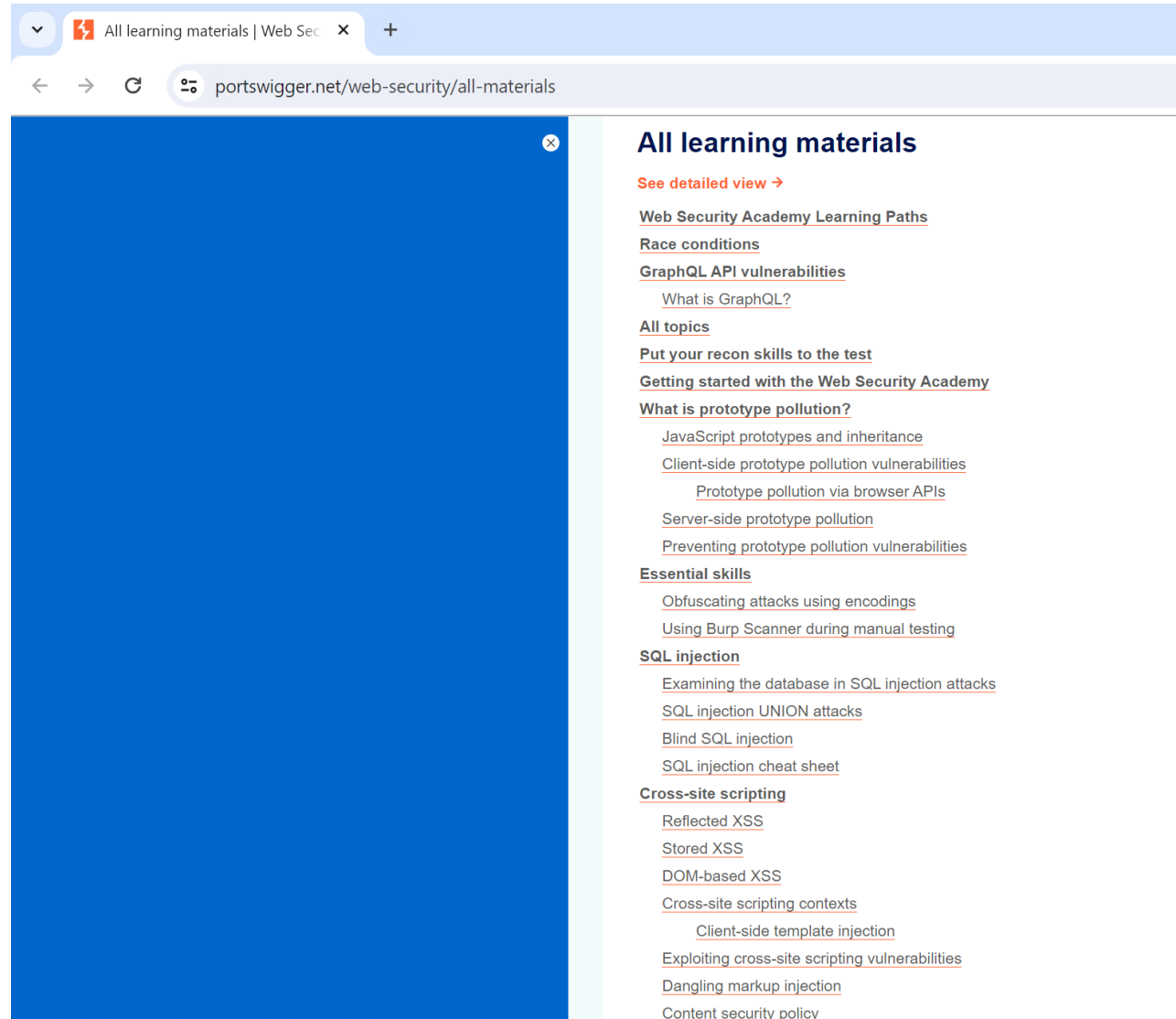
7 Labs

WebSockets

[Go to topic →](#)

3 Labs

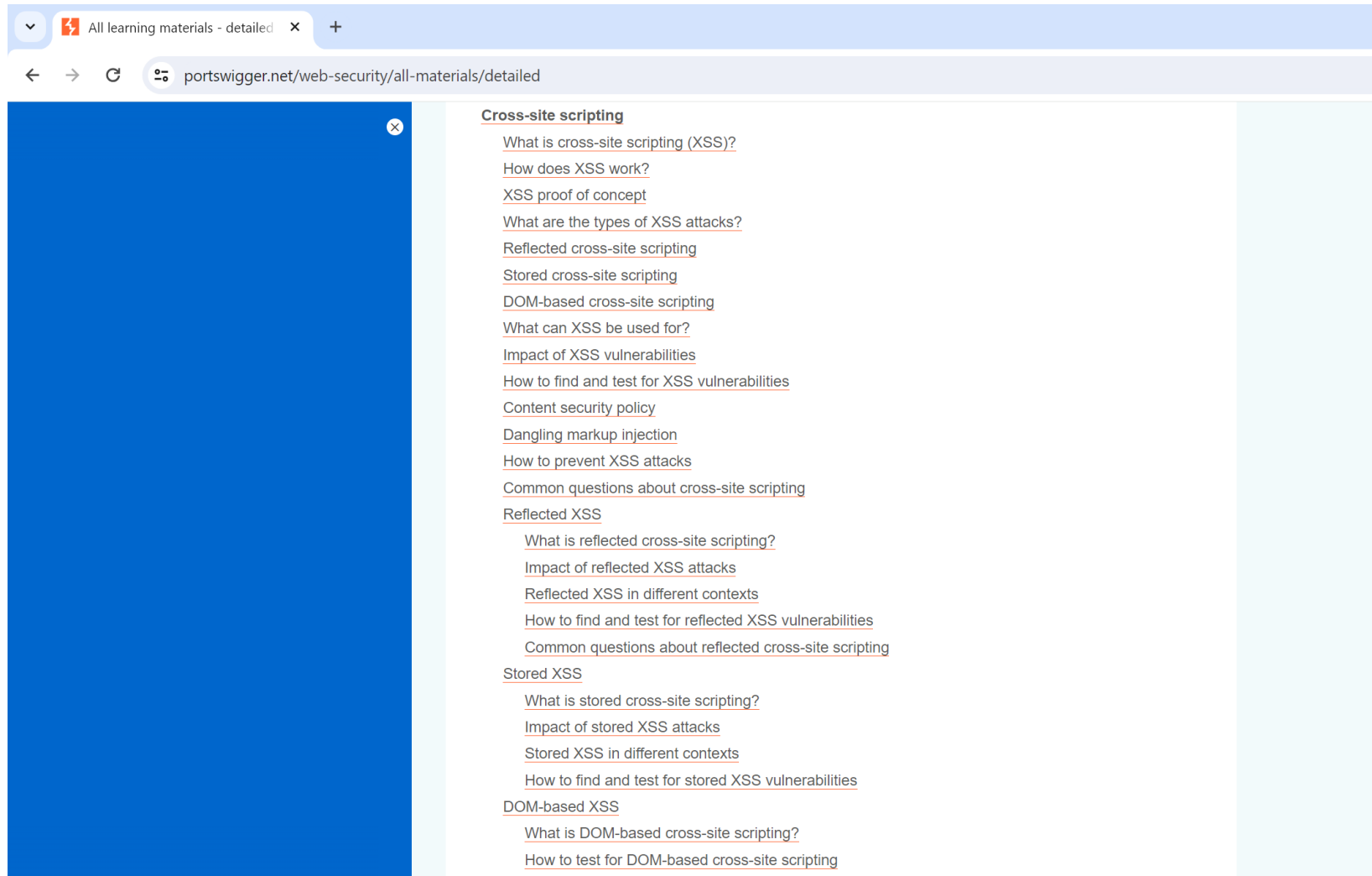
Web Security Academy: All Materials



Web Security Academy: All Materials (Detailed View)

The screenshot shows a web browser window with the address bar displaying `portswigger.net/web-security/all-materials/detailed`. The PortSwigger logo is at the top center, and a 'LOGIN' button is at the top right. A navigation bar below the logo contains links: Products, Solutions, Research, Academy, and Support. Below this is a secondary navigation bar with links: Dashboard, Learning paths, Latest topics, All content, Hall of Fame, Get started, and Get certified. The main content area has a breadcrumb trail: Web Security Academy > All materials > Detailed. The title of the page is 'All learning materials - detailed'. Under the heading 'Web Security Academy Learning Paths', there is a section for 'Race conditions' which includes links for 'Limit overrun race conditions' (with sub-links for Burp Repeater and Turbo Intruder), 'Hidden multi-step sequences', 'Methodology' (with sub-links 1 - Predict potential collisions, 2 - Probe for clues, and 3 - Prove the concept), 'Multi-endpoint race conditions' (with sub-link 'Aligning multi-endpoint race windows'), 'Connection warming', 'Abusing rate or resource limits', 'Single-endpoint race conditions', 'Session-based locking mechanisms', 'Partial construction race conditions', 'Time-sensitive attacks', and 'How to prevent race condition vulnerabilities' (with sub-links 'Predict a potential collision', 'Benchmark the behavior', and 'Probe for clues'). A large blue rectangular area on the left side of the page is partially obscured by a small 'x' icon in the top right corner.

Web Security Academy: All Materials (Detailed View)



Covered XSS Concepts

From Portswigger's All Topics/Materials

The screenshot shows a web browser window with the address bar displaying 'portswigger.net/web-security/cross-site-scripting'. The PortSwigger logo is at the top left, and a 'LOGIN' button is at the top right. A navigation bar contains links for Products, Solutions, Research, Academy, and Support. Below this, a secondary navigation bar includes Dashboard, Learning paths, Latest topics, All content, Hall of Fame, Get started, and Get certified. On the left, a blue sidebar menu lists various topics, with 'What is XSS?' highlighted. The main content area on the right is titled 'Cross-site scripting' and contains an introductory paragraph and two sub-sections: 'What is cross-site scripting (XSS)?' and 'How does XSS work?'. The 'What is cross-site scripting (XSS)?' section explains that XSS is a web security vulnerability that allows an attacker to compromise user interactions with a vulnerable application by circumventing the same origin policy. The 'How does XSS work?' section explains that XSS works by manipulating a vulnerable web site to return malicious JavaScript to users, which then executes inside the victim's browser.

What is cross-site scripting (XSS)

portswigger.net/web-security/cross-site-scripting

PortSwigger

LOGIN

Products Solutions Research Academy Support

Dashboard Learning paths Latest topics All content Hall of Fame Get started Get certified

Web Security Academy > Cross-site scripting

Cross-site scripting

In this section, we'll explain what cross-site scripting is, describe the different varieties of cross-site scripting vulnerabilities, and spell out how to find and prevent cross-site scripting.

What is cross-site scripting (XSS)?

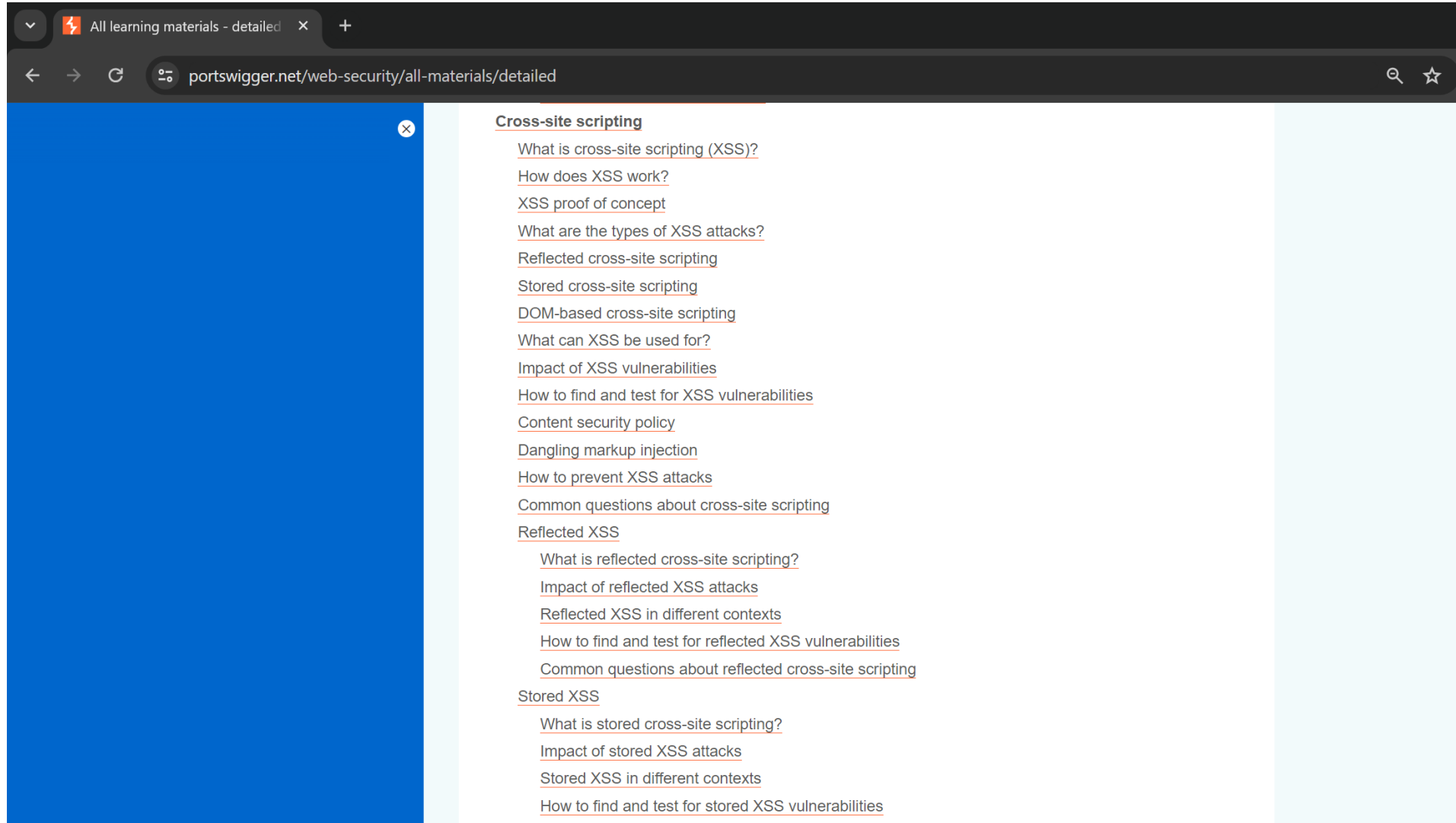
Cross-site scripting (also known as XSS) is a web security vulnerability that allows an attacker to compromise the interactions that users have with a vulnerable application. It allows an attacker to circumvent the same origin policy, which is designed to segregate different websites from each other. Cross-site scripting vulnerabilities normally allow an attacker to masquerade as a victim user, to carry out any actions that the user is able to perform, and to access any of the user's data. If the victim user has privileged access within the application, then the attacker might be able to gain full control over all of the application's functionality and data.

How does XSS work?

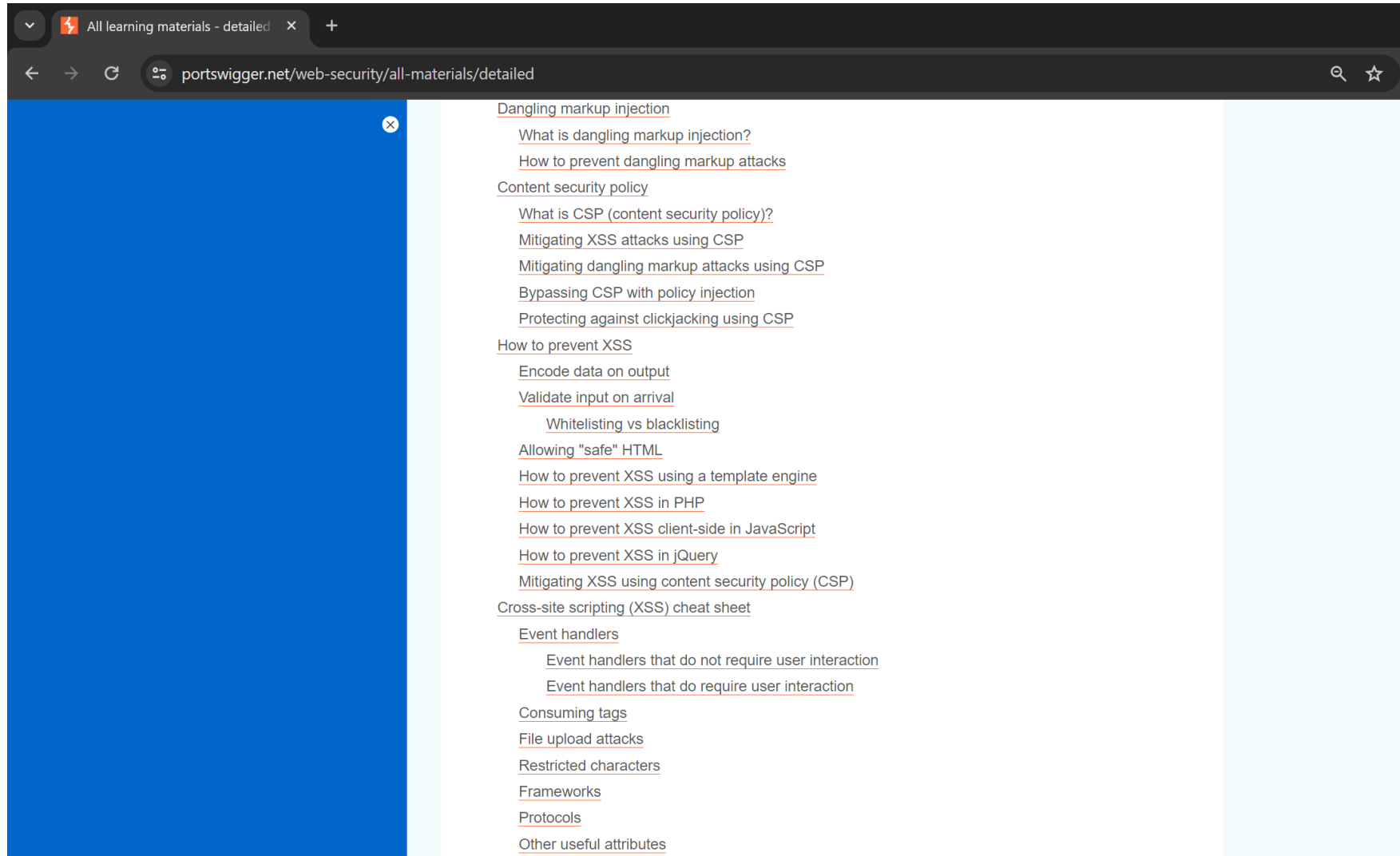
Cross-site scripting works by manipulating a vulnerable web site so that it returns malicious JavaScript to users. When the malicious code executes inside a victim's browser, the attacker can fully compromise their interaction with the application.

- Back to all topics
- What is XSS?
- How does XSS work?
- Impact of an attack
- Proof of concept
- Testing
- Reflected XSS
- Stored XSS
- DOM-based XSS
- XSS contexts
- Exploiting XSS vulnerabilities
 - To steal cookies
 - To capture passwords
 - To perform CSRF
- Dangling markup injection
- Preventing attacks
- Content security policy (CSP)

From Portswigger's All Topics/Materials



From Portswigger's All Topics/Materials



Using Burp Suite for Testing XSS: *With Similar Video Demos!*

Tutorials & Video Demos on Using Burp Suite

- You can refer to [Burp Suite documentation – desktop editions](#):
- It contains “[Penetration testing workflow](#)”, which covers testing for the following vulnerabilities:
 - Authentication mechanisms
 - Session management mechanisms
 - Access controls
 - **Input validation**: including SQLi, [XSS](#), OS command & XXE injections
 - Clickjacking
 - SSRF
 - WebSockets
 - Working with GraphQL in Burp Suite
 - Complementing your manual testing with Burp Scanner

From Portswigger's Burp Suite Documentation

The screenshot shows the Portswigger website's documentation for Burp Suite. The left sidebar is a blue navigation menu with two main sections: 'Getting started' and 'Testing workflow'. The 'Testing workflow' section is expanded, showing a list of topics. The 'Testing input validation' item is highlighted with a red rectangular box. The main content area on the right is titled 'Penetration testing workflow' and includes a 'Last updated' date of January 29, 2024, and a 'Read time' of 5 minutes. It provides an overview of the workflow and lists three steps: 1. Map your target application, 2. Analyze the attack surface, and 3. Test for vulnerabilities. A 'Note' box states that some tools are only available in Burp Suite Professional. A 'Tutorials' section lists links to various guides, including 'Setting the test scope', 'Mapping the website', 'Analyzing the attack surface', and 'Testing for vulnerabilities'.

portswigger.net/burp/documentation/desktop/testing-workflow

Getting started

- System requirements
- Step 1: Download and install
- Step 2: Intercepting HTTP traffic
- Step 3: Modifying requests
- Step 4: Setting the target scope
- Step 5: Reissuing requests
- Step 6: Running your first scan [Pro only]
- Step 7: Generating a report [Pro only]
- Step 8: What next?

Testing workflow

- Setting the test scope
- Mapping the website
- Analyzing the attack surface
- Testing authentication mechanisms
- Testing session management mechanisms
- Testing access controls
- Testing input validation**
 - Bypassing client-side controls
 - SQL injection
 - Cross-site scripting (XSS)
 - Client-side prototype pollution
 - OS command injection
 - XXE injection
 - Testing for directory traversal vulnerabilities

Penetration testing workflow

Last updated: January 29, 2024 **Read time:** 5 Minutes

Burp Suite includes a range of automated and manual tools that you can use in your [penetration testing](#) workflow. The tutorials in this section are designed to teach you how to use Burp Suite to:

1. Map your target application.
2. Analyze the attack surface.
3. Test for vulnerabilities.

You can complete most of the tutorials as a stand-alone exercise. If you're just starting out, you can use the tutorials to get an overview of a typical penetration testing workflow. Otherwise you can select tutorials to learn how to combine different Burp tools to perform a specific task.

You can practice the processes outlined in most of the tutorials using our deliberately vulnerable website, [ginandjuice.shop](#), or a deliberately vulnerable lab from the Web Security Academy. We provide a link to a suitable lab where necessary.

Note

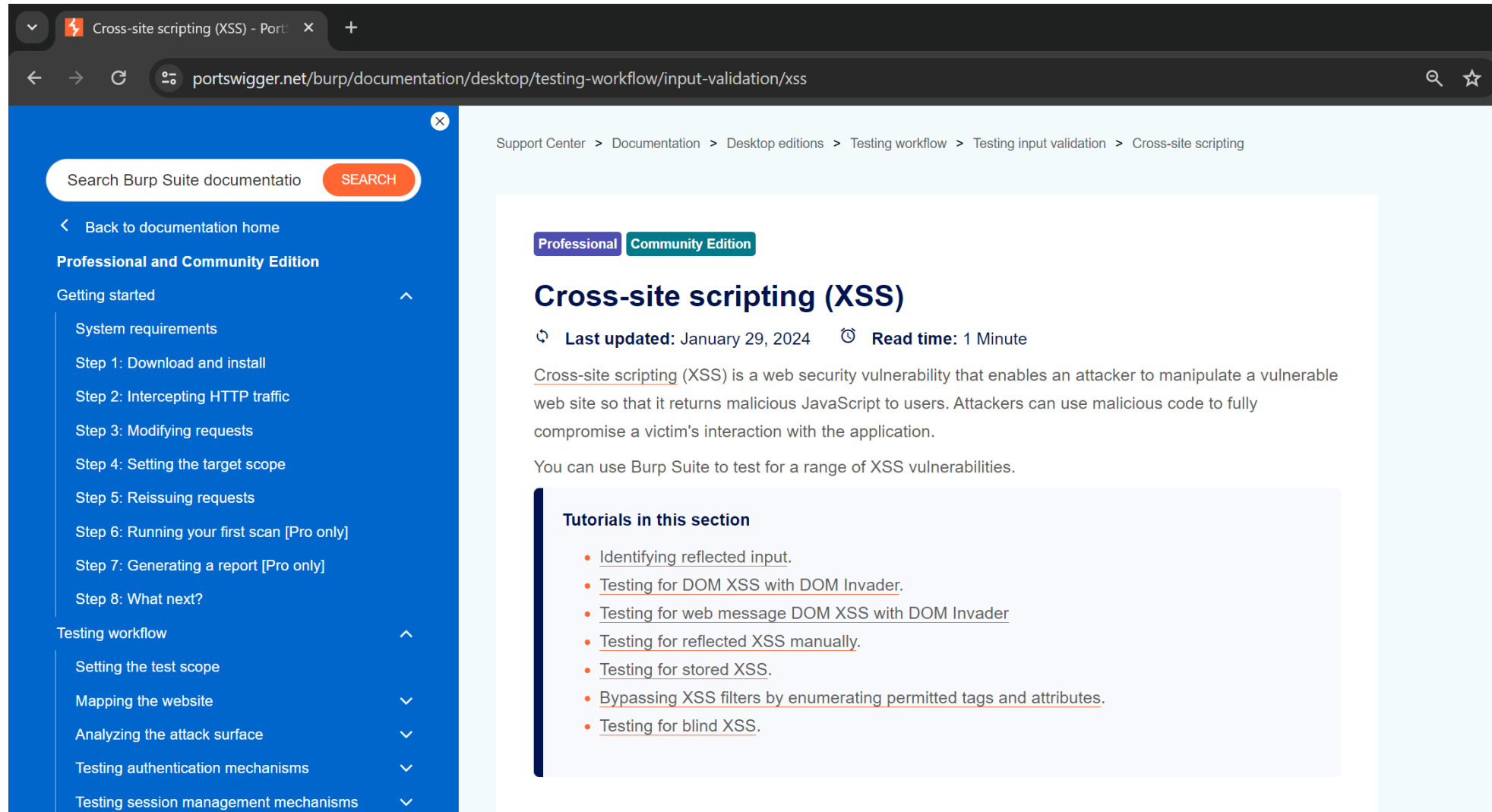
Some of the tools used in this testing workflow are only available in [Burp Suite Professional](#).

Tutorials

- [Setting the test scope](#)
- [Mapping the website](#)
- [Analyzing the attack surface](#)
- Testing for vulnerabilities:
 - [Authentication mechanisms](#)
 - [Session management mechanisms](#)
 - [Access controls](#)
 - [Input validation](#)

Testing XSS

Clickable
link



Support Center > Documentation > Desktop editions > Testing workflow > Testing input validation > Cross-site scripting

Search Burp Suite documentation **SEARCH**

< Back to documentation home

Professional and Community Edition

Getting started ^

- System requirements
- Step 1: Download and install
- Step 2: Intercepting HTTP traffic
- Step 3: Modifying requests
- Step 4: Setting the target scope
- Step 5: Reissuing requests
- Step 6: Running your first scan [Pro only]
- Step 7: Generating a report [Pro only]
- Step 8: What next?

Testing workflow ^

- Setting the test scope
- Mapping the website v
- Analyzing the attack surface v
- Testing authentication mechanisms v
- Testing session management mechanisms v

Professional **Community Edition**

Cross-site scripting (XSS)

🕒 **Last updated:** January 29, 2024 ⌚ **Read time:** 1 Minute

Cross-site scripting (XSS) is a web security vulnerability that enables an attacker to manipulate a vulnerable web site so that it returns malicious JavaScript to users. Attackers can use malicious code to fully compromise a victim's interaction with the application.

You can use Burp Suite to test for a range of XSS vulnerabilities.

Tutorials in this section

- Identifying reflected input.
- Testing for DOM XSS with DOM Invader.
- Testing for web message DOM XSS with DOM Invader
- Testing for reflected XSS manually.
- Testing for stored XSS.
- Bypassing XSS filters by enumerating permitted tags and attributes.
- Testing for blind XSS.

Identifying Reflected Input with Burp Suite

Clickable
link

The screenshot shows the PortSwigger documentation page for 'Identifying reflected input with Burp Suite'. The page is titled 'Identifying reflected input with Burp Suite' and is part of the 'Testing workflow' section. It includes a search bar, a navigation menu on the left, and a main content area with a video player and a table of issues.

Search Bar: Search Burp Suite documentation

Navigation Menu:

- Back to documentation home
- Professional and Community Edition
- Getting started
 - System requirements
 - Step 1: Download and install
 - Step 2: Intercepting HTTP traffic
 - Step 3: Modifying requests
 - Step 4: Setting the target scope
 - Step 5: Reissuing requests
 - Step 6: Running your first scan [Pro only]
 - Step 7: Generating a report [Pro only]
 - Step 8: What next?
- Testing workflow
 - Setting the test scope
 - Mapping the website
 - Analyzing the attack surface
 - Testing authentication mechanisms
 - Testing session management mechanisms
 - Testing access controls
 - Testing input validation
 - Bypassing client-side controls

Main Content:

Support Center > Documentation > Desktop editions > Testing workflow > Testing input validation > Cross-site scripting > Identifying reflected input

Identifying reflected input with Burp Suite

Last updated: January 29, 2024 Read time: 1 Minute

Issue activity table:

Task	Time	Action	Issue type
	08:32:58 13 Jul 2023	Issue found	Cross-site scripting (reflected)
	08:32:57 13 Jul 2023	Issue found	Cacheable HTTPS response
	08:32:56 13 Jul 2023	Issue found	Input returned in response (reflected)
	08:32:37 13 Jul 2023	Issue found	TLS certificate
	08:31:12 13 Jul 2023	Issue found	Cross-domain Referer leakage
	08:30:12 13 Jul 2023	Issue found	Cacheable HTTPS response
	08:30:12 13 Jul 2023	Issue found	Cacheable HTTPS response
	08:30:12 13 Jul 2023	Issue found	Cacheable HTTPS response
	08:30:11 13 Jul 2023	Issue found	Cacheable HTTPS response
	08:30:11 13 Jul 2023	Issue found	Strict transport security not enforced

Issue detail: Input returned in response (reflected)

Issue: Input returned in response (reflected)
Severity: Information
Confidence: Certain
Host: https://0a9b00dd033e2a31869423390650021.web-security-academy.net/
Path: /

Issue detail
The value of the search request parameter is copied into the application's response.

Issue background
Reflection of input arises when data is copied from a request and echoed into the application's immediate response. This is a prerequisite for a range of vulnerabilities, including reflected cross-site scripting (XSS). You can use Burp to test for reflected input:

Burp
Scanner
is used!

Testing for Reflected XSS Manually with Burp Suite

Clickable
link

[portswigger.net/burp/documentation/desktop/testing-workflow/input-validation/xss/testing-for-reflected-xss](#)

[Back to documentation home](#)

Professional and Community Edition

Getting started

System requirements

Step 1: Download and install

Step 2: Intercepting HTTP traffic

Step 3: Modifying requests

Step 4: Setting the target scope

Step 5: Reissuing requests

Step 6: Running your first scan [Pro only]

Step 7: Generating a report [Pro only]

Step 8: What next?

Testing workflow

Setting the test scope

Mapping the website

Analyzing the attack surface

Testing authentication mechanisms

Testing session management mechanisms

Testing access controls

Testing input validation

Bypassing client-side controls

SQL injection

Cross-site scripting (XSS)

Identifying reflected input

ProfessionalCommunity Edition

Testing for reflected XSS manually with Burp Suite

Last updated: January 29, 2024Read time: 2 Minutes

Testing for reflected XSS manually with Burp Suite

SendCancel<>+>

Target: https://0adc004a035e770081c3cf7500bf005f.web-security-academy.net

HTTP/2

Request

RawHex

1 GET /?search=test HTTP/2

2 Host: 0adc004a035e770081c3cf7500bf005f.web-security-academy.net

3 Cookie: session=Kw0P0a1701m3gwygpf00tp30

4 Sec-CH-UA: "Chromium";v="117", "Not;A=Brand";v="8"

5 Sec-CH-UA-Mobile: ?0

6 Sec-CH-UA-Platform: "Linux"

7 Upgrade-Insecure-Requests: 1

8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/117.0.5938.63 Safari/537.36

9 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7

10 Sec-Fetch-Site: same-origin

11 Sec-Fetch-Mode: navigate

12 Sec-Fetch-User: ?1

13 Sec-Fetch-Dest: document

14 Referer: https://0adc004a035e770081c3cf7500bf005f.web-security-academy.net/

15 Accept-Encoding: gzip, deflate, br

16 Accept-Language: en-US,en;q=0.9

Response

RawHexRender

37 </div>

38 </section>

39 </div>

40 <div theme="blog">

41 <section class="maincontainer">

42 <div class="container is-page">

43 <header class="navigation-header">

44 <section class="top-links">

45 <a href="/home

46

47 </div>

48 </section>

49 <header class="notification-header">

50 </header>

51 <section class="blog-header">

52 <h2>

53 </h2>

54 <section class="search">

55 <form action="/ method=GET>

56 <input type="text" placeholder="Search the blog..." name="search">

57 <button type="submit" class="button">

58 Search

59 </button>

60 </form>

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Clickable
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Burp Intruder is used!

Clickable
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Payload lists from **XSS Cheat Sheet** are also used

**Please utilize the available resources:
You can become a Burp Expert too**

Thanks!