

Preventing XSLT Injection

After discussing how to identify and exploit XSLT injection vulnerabilities in the previous sections, we will conclude this module by discussing how to prevent them.

Prevention

Similarly to all injection vulnerabilities discussed in this module, XSLT injection can be prevented by ensuring that user input is not inserted into XSL data before processing by the XSLT processor. However, if the output should reflect values provided by the user, user-provided data might be required to be added to the XSL document before processing. In this case, it is essential to implement proper sanitization and input validation to avoid XSLT injection vulnerabilities. This may prevent attackers from injecting additional XSLT elements, but the implementation may depend on the output format.

For instance, if the XSLT processor generates an HTML response, HTML-encoding user input before inserting it into the XSL data can prevent XSLT injection vulnerabilities. As HTML-encoding converts all instances of `<` to `<`; and `>` to `>`; an attacker should not be able to inject additional XSLT elements, thus preventing an XSLT injection vulnerability.

Additional hardening measures such as running the XSLT processor as a low-privilege process, preventing the use of external functions by turning off PHP functions within XSLT, and keeping the XSLT library up-to-date can mitigate the impact of potential XSLT injection vulnerabilities.

[< Previous](#)[Next >](#)[Mark Complete & Next](#)[Cheat Sheet](#)

Table of Contents

Introduction

[Introduction to Server-side Attacks](#) ✓

SSRF

[Introduction to SSRF](#) ✓[Identifying SSRF](#) ✓[Exploiting SSRF](#) ✓[Blind SSRF](#) ✓[Preventing SSRF](#) ✓

SSTI

[Template Engines](#) ✓[Introduction to SSTI](#) ✓[Identifying SSTI](#) ✓[Exploiting SSTI - Jinja2](#) ✓[Exploiting SSTI - Twig](#) ✓[SSTI Tools of the Trade & Preventing SSTI](#) ✓

SSI Injection

[Introduction to SSI Injection](#) ✓[Exploiting SSI Injection](#) ✓[Preventing SSI Injection](#) ✓

XSLT Injection

[Intro to XSLT Injection](#) ✓[Exploiting XSLT Injection](#) ✓[Preventing XSLT Injection](#) ✓

Skills Assessment

[Server-Side Attacks - Skills Assessment](#) ✓

My Workstation

OFFLINE

[Start Instance](#)

00 / 1 spawns left

