Introduction to SSRF

SSRF vulnerabilities are part of OWASPs Top 10. This type of vulnerability occurs when a web application fetches additional resources from a remote location based on user-supplied data, such as a URL.

Server-side Request Forgery

Suppose a web server fetches remote resources based on user input. In that case, an attacker might be able to coerce the server into making requests to arbitrary URLs supplied by the attacker, i.e., the web server is vulnerable to SSRF. While this might not sound particularly bad at first, depending on the web application's configuration, SSRF vulnerabilities can have devastating consequences, as we will see in the

Furthermore, if the web application relies on a user-supplied URL scheme or protocol, an attacker might be able to cause even further undesired behavior by manipulating the URL scheme. For instance, the following URL schemes are commonly used in the exploitation of SSRF vulnerabilities:

- exploitation of SSRF vulnerabilities to read local files on the web server (LFI)
- the exploitation of SSRF vulnerabilities to send HTTP POST requests with arbitrary payloads or communicate with other services such as SMTP servers or databases

 $For more \ details \ on \ advanced \ SSRF \ exploitation \ techniques, such as \ filter \ by passes \ and \ DNS \ rebinding, check \ out \ the \ \underline{Modern \ Web}$ **Exploitation Techniques module.**

Ī

