

Web Security and the OWASP Top 10: The Big Picture

Unvalidated Redirects and Forwards

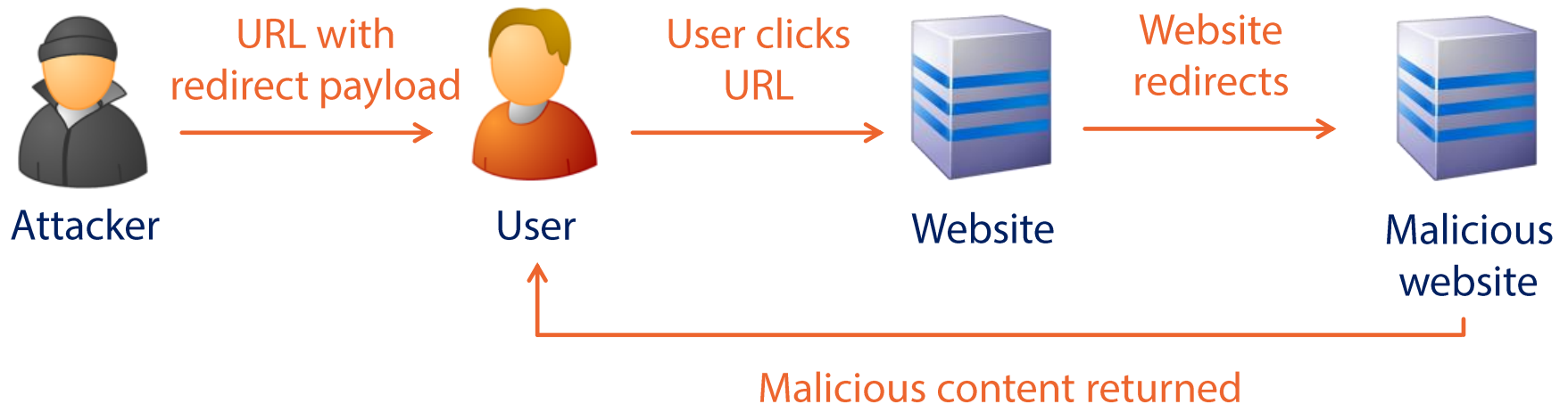
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Unvalidated Redirects and Forwards Overview

Attack Vectors	Security Weaknesses		Technical Impacts
Exploitability Average	Prevalence Uncommon	Detectability Easy	Impact Moderate



Understanding Unvalidated Redirects and Forwards

“Here’s a piece of text on a website with a link to an external website.”



`/redirect/?url=http://externalwebsite.com`



Attacker



`http://vulnerablesite.com/redirect/
?url=http://attackersite.com/malware.exe`

Common Defences Against Unvalidated Redirects and Forwards

Use a URL
whitelist

- What URLs are allowed to be redirect to?
- Abort if the URL is not allowed

Use
indirect
references

- Pass an ID to the redirect, not a URL
- Resolve the URL from a reference map

Check the
referrer

- Did the redirect originate from the site?
- May need to whitelist multiple sites

Unvalidated Redirects and Forwards in the Wild – Government Websites

