

Same-Origin Policy (SOP)

The Basics of the Same-Origin Policy

- The same-origin policy is a foundational building block of web security
- The same-origin policy is a critical security mechanism that restricts how a document or script loaded from one [origin](#) can interact with a resource from another origin.
- It helps isolate potentially malicious documents, reducing possible attack vectors.

Definition of an Origin

- Two URLs have the same origin if the [protocol](#), [port](#) (if specified), and [host](#) are the same for both.

The following table gives examples of origin comparisons with the URL <http://store.company.com/dir/page.html>:

URL	Outcome	Reason
<code>http://store.company.com/dir2/other.html</code>	Same origin	Path differs
<code>http://store.company.com/dir/inner/another.html</code>	Same origin	??
<code>https://store.company.com/page.html</code>	Failure	??
<code>http://store.company.com:81/dir/page.html</code>	Failure	??
<code>http://news.company.com/dir/page.html</code>	Failure	??