

# Reverse Tab Nabbing

By Asia Erickson

**ENTER** 



#### What is Reverse Tab Nabbing?

X

01

02

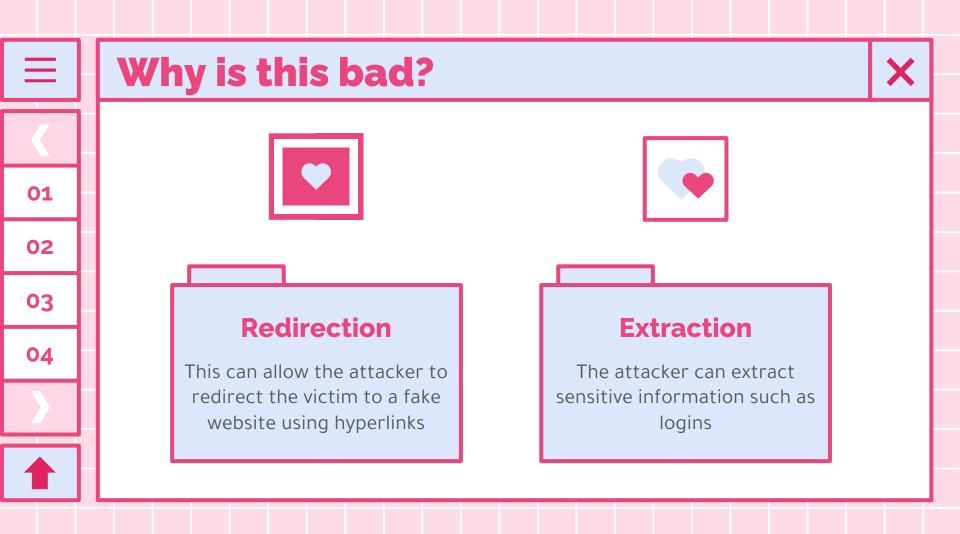
03

04



When an attacker gains control over the href attribute of an '<a>' tag with attributes target="\_blank" and rel="opener":

- The attacker can redirect the victim to a malicious website by changing the href attribute
- They can exploit the rel="opener" attribute and gain control over the original page through window.opener in Javascript
- Even without rel="opener," of the page uses target="\_blank" without rel="noopener," it is still vulnerable



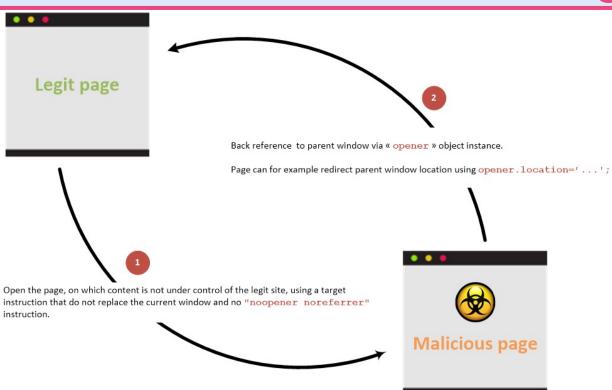


#### **Website Vulnerable to Tab Nabbing**



<







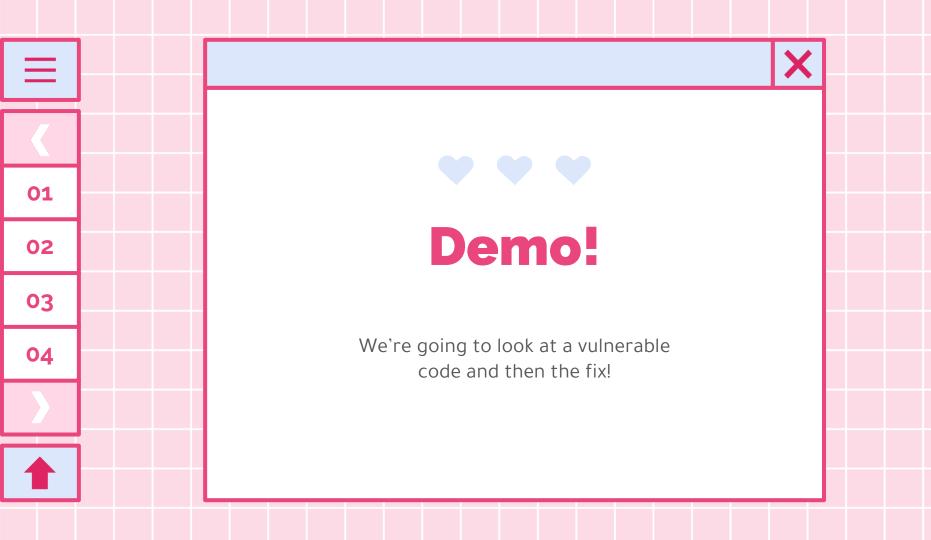
#### **Not Vulnerable to Tab Nabbing**













## **Basic Example from HackTricks**





01

02

03

04



vulnerable.html

<!DOCTYPE html>

<html> <body>

<h1>Victim Site</h1>

<a href="http://127.0.0.1:8000/malicious.html" target=" blank" rel="opener">Controlled by the attacker</a>

</body>

</html>



## **Basic Example from HackTricks Cont.** | X



01

02

03

04



malicious.html <!DOCTYPE html> <html> <body> <script> window.opener.location = "http://127.0.0.1:8000/malicious redir.html"; </script> </body> </html>

#### malicious\_redir.html

<!DOCTYPE html>

<html>

<body>

<h1>New Malicious Site</h1>

</body>

</html>



01

02

03

04

#### **Burp Tool**









"Reverse tabnabbing is an attack where a page linked from the target page is able to rewrite that page, for example, to replace it with a phishing site. As the user was originally on the correct page they are less likely to notice that it has been changed to a phishing site. If the user authenticates to this new page, then their credentials (or other sensitive data) are sent to the phishing site rather than the legitimate one.

Because of this I created the Discovering Reverse
Tabnabbing, that is a Burp extension written in Python which helps to locate HTML links that use the target="\_blank" attribute, omitting the rel="noopener" attribute.

(requires Burp Suite Professional)



