Non-Persistent XSS

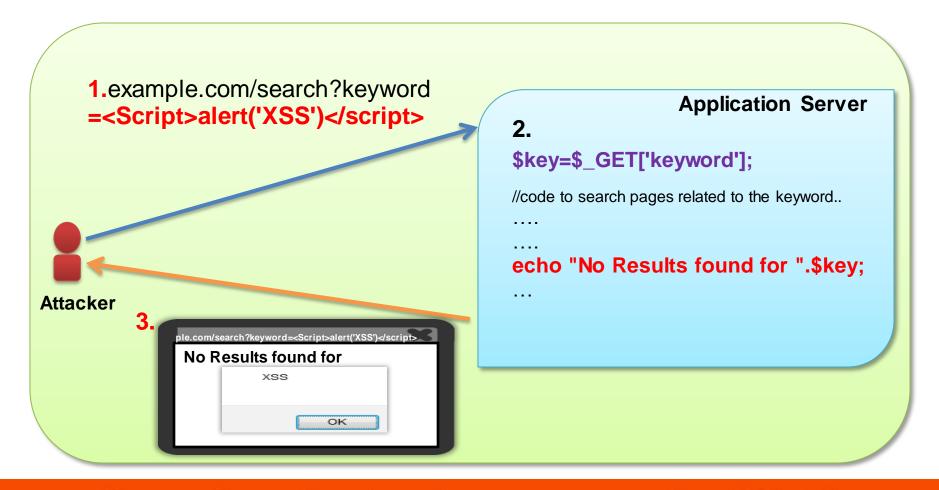


Introduction

Non-Persistent XSS, also known as Reflected XSS, is more common than stored type xss.

➤ Reflected XSS occurs when user-provided data is immediately included (reflected) in the result page.

> The provided data won't be stored.



Example

A Search Page

Here, we have a page that allows users to enter keyword and returns pages related to the provided-keyword



Back End: PHP Code

```
$keyword=$ GET['keyword'];
//code for searching pages related to the given Keyword goes here..
if(resultfound)
    echo "Search Results for ".$keyword;
    //show reuslt pages...
else
echo "No results found for ".$keyword;
```

Front End: HTML Code of the result page

> The user-provided data has been included in the result page

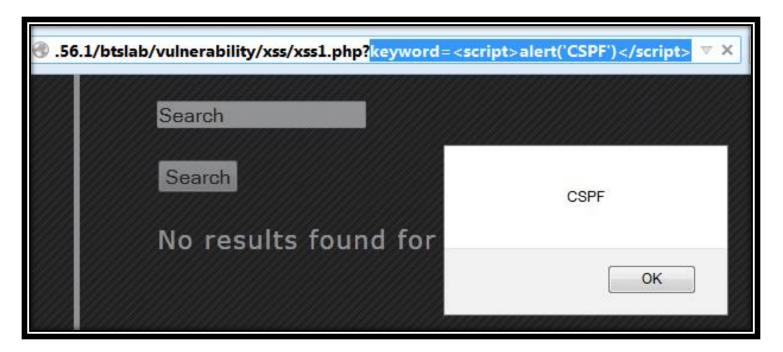
```
// cinput type="text" name="keyword" value="Search"/>
// cbr/>cinput type="submit" name="Search" value="Search"/>
// form>
// cbr/>
// No results found for Android
// No results found for Android
```

Reflected XSS Testing

Injecting Script



Result Page



HTML Code of the result page

Exploitation

> The Reflected XSS Attack requires Social Engineering methods.

> To exploit the vulnerability, the attacker has to trick users into clicking a specially crafted link.

➤ The crafted link will contain a XSS payload that will exploit the vulnerability.

For Example:

http://example.com/search.php?keyword=<script>//malicious code;</script>

Scenario

- > Andrea has an account in Example.com
- Perseus finds a Reflected XSS vulnerability in the Example.com
- Perseus creates a specially crafted link to exploit the vulnerability and sends a fake email containing the link to Andrea
- > Andrea clicks the link while logged into the Example.com
- ➤ The script will get executed in Andrea's browser. The executed malicious script steals Andrea's Cookies associated with the Example.com and sends it to Perseus.

