

XSS

Cross-Site Scripting



XSS

- ▷ Injection of scripts provided by clients into Web pages
- ▷ Inherent to how HTML works
 - ♦ Not a "bug" of .NET, Python, etc.
- ▷ Has several variants
 - ♦ Stored XSS
 - ♦ Reflected XSS
 - ♦ Cross-Site Request Forgery (CSRF)



XSS

▷ Correct usage

```
<img src='img.png'> </img>
```

▷ Not so correct usage

```
<img src='img.png'>  
<script> alert("hi"); </script>  
</img>
```



XSS

▷ Information stealing (cookies)

```
  
</img>
```

▷ Open window, send current cookie to bad.com

- ♦ The current cookie is the one from the Web page that contains this HTML/JS code



XSS: injection vectors

- ▷ Any non parsed text!

```
<p>Hi there<script>alert('hehe')</script></p>
```

- ▷ Media tags: img, video, canvas

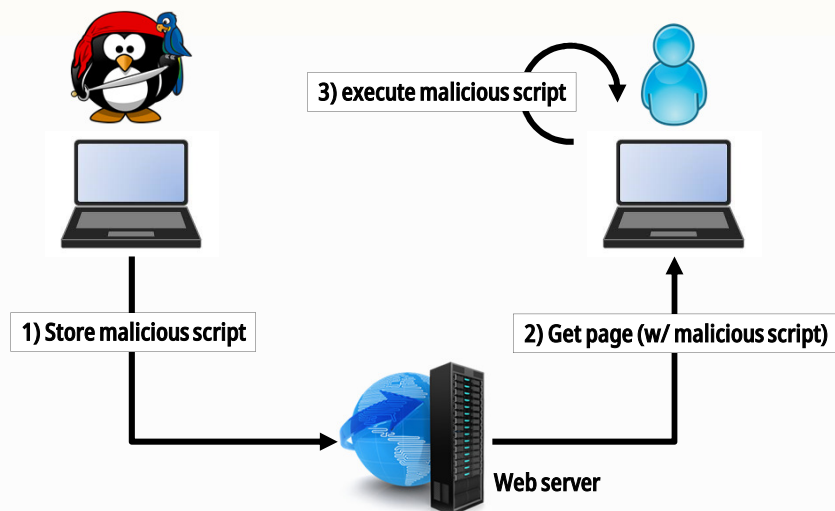
```
</img>
```

- ▷ URLs

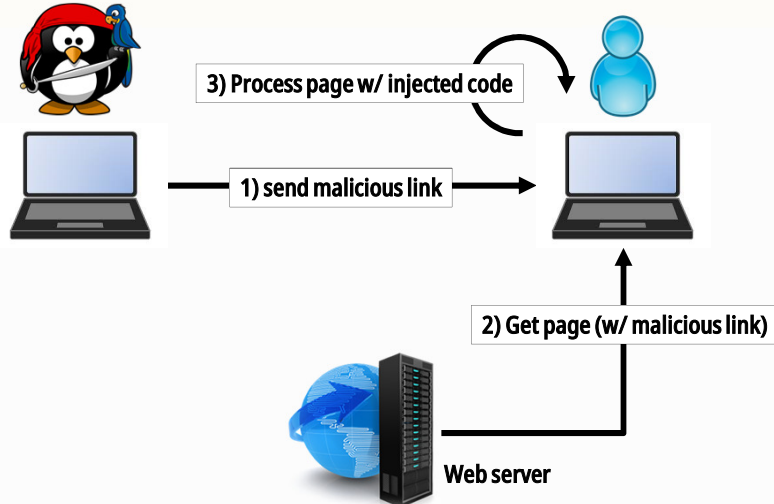
```
http://foo.bar/index.php?search=<script>alert('hi')</script>
```



Stored XSS



Reflected XSS

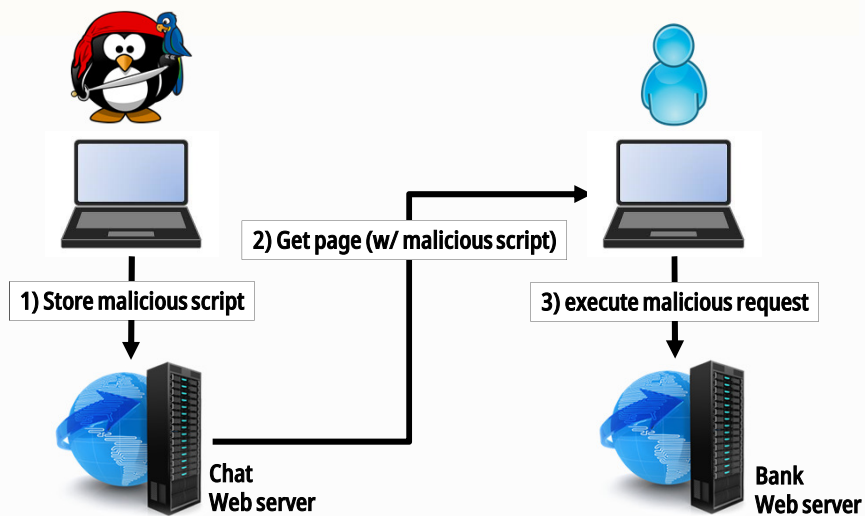


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Security

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Cross-Site Request Forgery



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