



Node.js

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Node.js Code Example var http = require('http'); http.createServer(function (req, res) { res.writeHead(200, {'Content-Type': 'text/html'}); res.end('Hello World!'); }).listen(8081);

Java and JavaScript in Web Applications

Java

Not a scripting language like JavaScript, but instead a compiled language



Cross-platform but requires a Java Runtime Environment (JRE)

Java applets can be embedded within HTML, Java programs can run client-side and server-side



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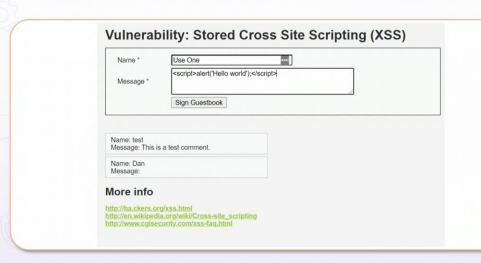


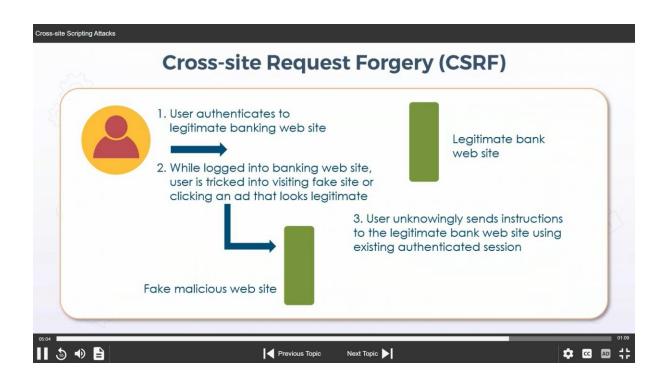
XSS Victim

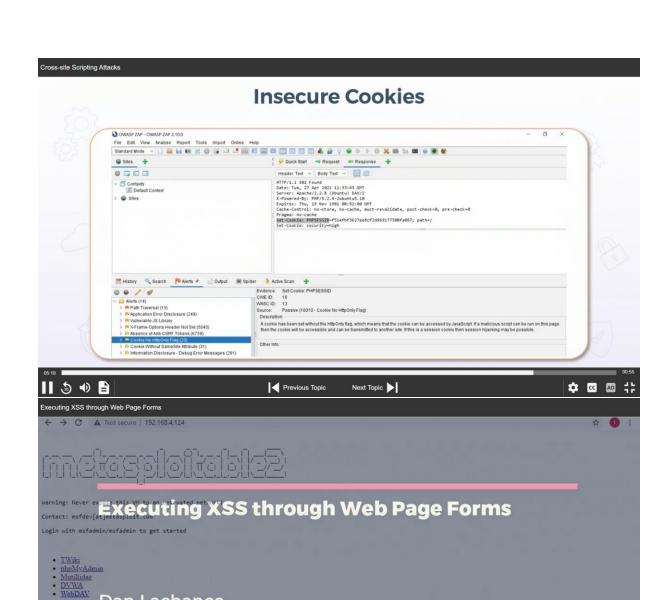


- Web site visitors unknowingly execute malicious code (stored/persistent XSS attack)
- Attackers could then
 - · Steal web browser session cookies
 - Impersonation
 - Log keystrokes
 - · Turn on webcam

Injecting JavaScript into a Web Page Form







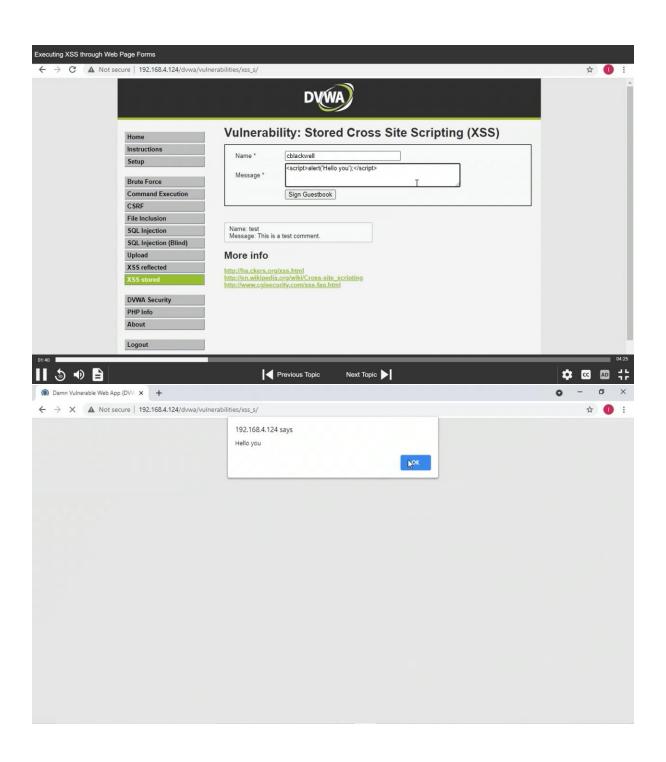
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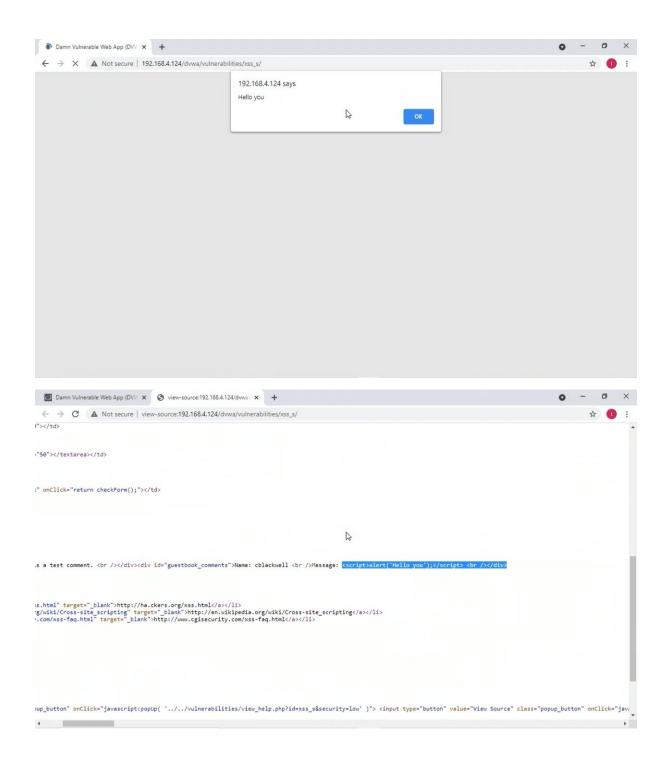
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Dan Lachance

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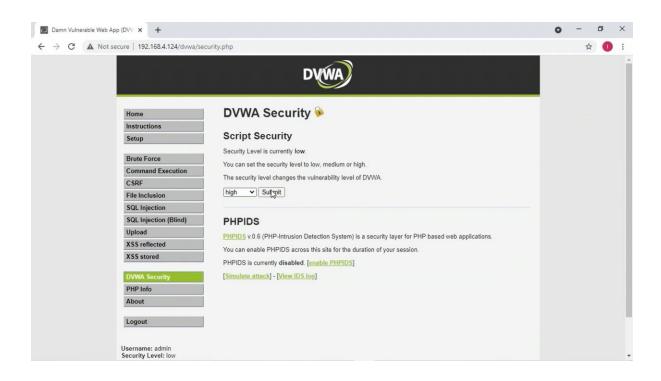
Next Page

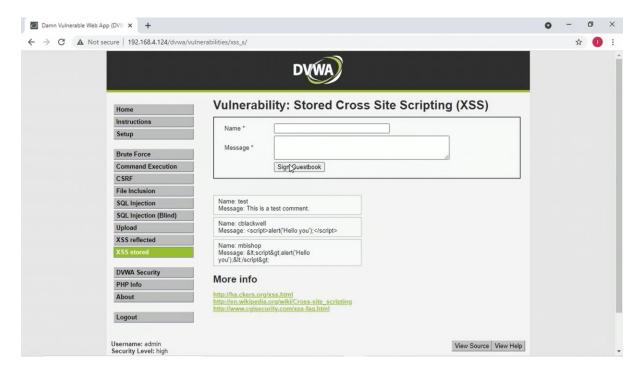
UnCut Text

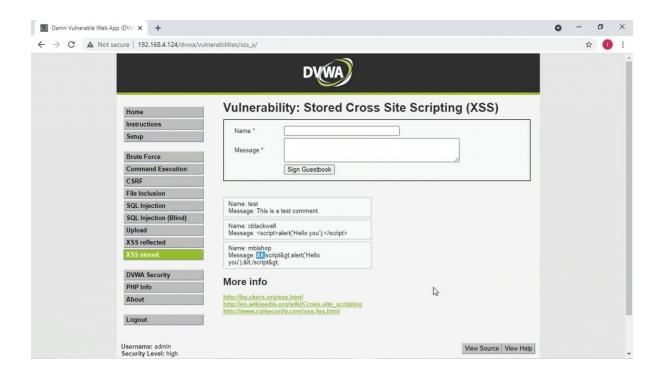
To Spell

Where Is

```
# 192,168,4,124 - PuTTY
                                                                                               O
                                     File: high.php
 GNU nano 2.0.7
 ?php
f(isset($ POST['btnSign']))
   $message = trim($_POST['mtxMessage']);
            = trim($_POST['txtName']);
   // Sanitize message input
  $message = stripslashes($message);
  $message = mysql_real_escape_string($message);
$message = htmlspecialchars($message);
   // Sanitize name input
   $name = stripslashes($name);
   $name = mysql real escape string($name);
   $name = htmlspecialchars($name);
   $query = "INSERT INTO guestbook (comment,name) VALUES ('$message','$name');";
                   WriteOut
                                    Read File
                                                                     Cut Text
                                                                                   ^C Cur Pos
  Get Help
                                    Where Is
                                                     Next Page
                                                                      UnCut Text
                                                                                      To Spell
```

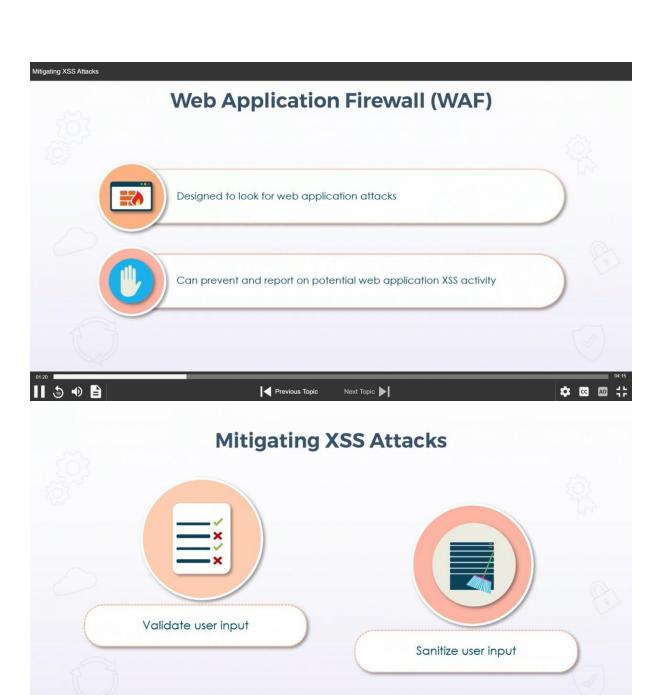




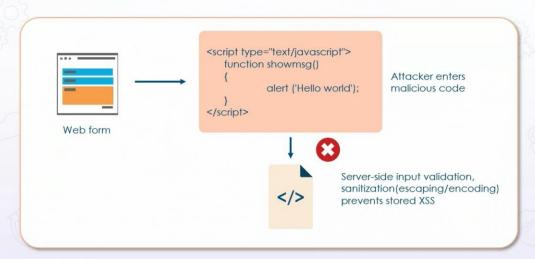








Prevent JavaScript Injection



Output Encoding

- Neutralizes the injection of executable statements
- · Translate special characters to a less dangerous form
 - E.g. < should be translated to <
- · Encoding is different from escaping
- Escaping takes away the meaning of a special character with a prefix
 - E.g. \" treats the double quote as a literal string



