Agenda

• What’s JuiceShop?
• Why?
• Comparison of Learning Platforms.
• JuiceShop description.
• Installation.
• Demo.
What is JuiceShop?

• It’s an intentionally insecure webapp for security trainings written entirely in JavaScript which encompasses the entire OWASP Top Ten and other severe security flaws.

• Written in **Node.js, Express** and **AngularJS**. It was the first application written entirely in JavaScript listed in the OWASP VWA Directory.
JavaScript... yay
Why JuiceShop?

• Modern technologies being used.
• JavaScript applications are everywhere.
• RESTful backend.
# Learning platforms

<table>
<thead>
<tr>
<th></th>
<th>WebGoat</th>
<th>Shepherd</th>
<th>JuiceShop</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Language</strong></td>
<td>Java</td>
<td>Java</td>
<td>JavaScript</td>
</tr>
<tr>
<td><strong>Model</strong></td>
<td>Old school webapp</td>
<td>Old school webapp</td>
<td>RESTful</td>
</tr>
<tr>
<td><strong>CTF</strong></td>
<td>No</td>
<td>Yes</td>
<td>Kind of</td>
</tr>
<tr>
<td><strong>Customizable</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Easy to install</strong></td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Self-healing</strong></td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Keep score</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Badly</td>
</tr>
<tr>
<td><strong>Lots of challenges</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
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More about JuiceShop

• Easy to install: npm, Docker, local, etc.
• Self-healing.
• Gamification (scores).
• CTF support.
• Free and open source.
• Extensive documentation.
More about JuiceShop
Installation

a) docker pull bkimminich/juice-shop
docker run --rm -p 3000:3000
bkimminich/juice-shop

b) git clone
https://github.com/bkimminich/juice-shop.git
npm install
npm start
Project home page

https://www.owasp.org/index.php/OWASP_Juice_Shop_Project
Demo
Questions?
Thanks!

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