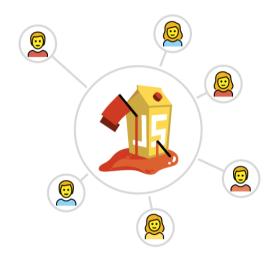


MultiJuicer DeepDive

https://open-security-summit.org/







MultiJuicer

Multi User Plattform for OWASP Juice Shop















Jannik Hollenbach Security Engineer @ <u>iteratec</u> **OWASP Juice Shop Core Team**







@j12934



Our passion is to deliver secure software because we believe that secure software development is crucial in a digital world

Developing secure software is not that hard as developer often might think

It all starts as always with a shared mindset + culture, learning by doing and of course security developer trainings (5)





How do you do hands-on security trainings?





With OWASP Juice Shop, obviously (5)



- 1. 95+ Challenges with lots of variability
 - 2. Realistic challenges
- 3. Interactive Hacking Instructor for newbies
 - 4. Open Source



But How?



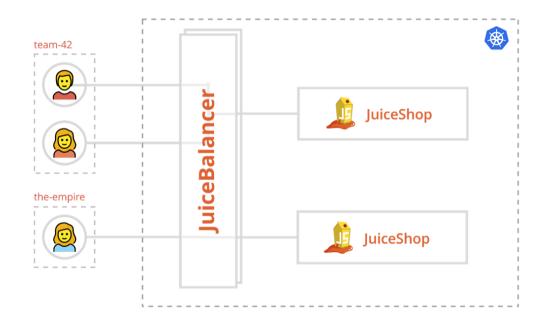
Training Setup Comparison

You will find a recap of all three options here: https://youtu.be/6NMjZbfnTOU

	Option #1 Local Installs	Option #2 "docker run" Hosting	Option #3 MultiJuicer
ß	 Managed by Participants Nothing to manage by you 	Saves time during trainingEasy Setup	 Saves time during training Single address Monitorable Scales automatically Somewhat cheat proof Automatically cleans up instances after trainings
₽	 Time Intensive during trainings Need to be a node expert 	 Managed by you Hard to monitor Multiple addresses Might be blocked in corporate networks 	Managed by youNeed to maintain kubernetes cluster



How it works







https://multijuicer.oss2020.security.iteratec.dev



How to install MultiJuicer?

Demo



Installing MultiJuicer

```
# Pull the helm repo
helm repo add multi-juicer https://iteratec.github.io/multi-juicer/
# Install MultiJuicer
helm install multi-juicer multi-juicer/multi-juicer
```



Changing the Configuration 1/3



Changing the Configuration 2/3

Steal Björn Config from the Configuring JuiceShop Session https://github.com/OpenSecuritySummit/oss2020/blob/master/content/outcomes/OWASP-JuiceShop/deepdive-theming/oss17-final_touch.yml

```
# Saving as a helm values file:
juiceShop:
config: |
  application:
    name: 'OpenSecuritySummit Store'
    logo: https://open-security-summit.org/img/logo.png
    welcomeBanner:
       showOnFirstStart: false
    theme: blue-lightblue
    cookieConsent:
       backgroundColor: '#23527c'
       textColor: '#ffffff'
```



Changing the Configuration 3/3

```
# Install with custom config file
helm install multi-juicer multi-juicer/multi-juicer \
    --values ./values.yml
    --set "balancer.service.type=LoadBalancer"
```



Installing the Monitoring Stack



Feature-Request ideas worth mentioning

- Long Running MultiJuicer Setups
 - Scale JuiceShops Instance of inactive teams to zero
 - Delete instances completely when team hasn't come back for a long time
- Add "train the trainer" material:
 - How to organize (virtual) security trainings
- Add more additional training materials already available at OWASP
- MultiJuicer UI improvements
 - Add White label customizing: configure another logo / color / icons / hints
 - Move the custom ScoreBoard from Grafana to the MultiJuicer UI
- SSO for Enterprise?
 - OpenIDConnect based authentication







Try it out!



☆ Star the repo



File issues

? Write setups guides for your favorite cloud

Share your feedback and experience with us



github.com/iteratec/multi-juicer



Thanks for listening, stay safe!



