NETWORK SECURITY

Docker Security Playground

A microservices-based framework for the implementation

of attack scenarios in virtualized network infrastructures

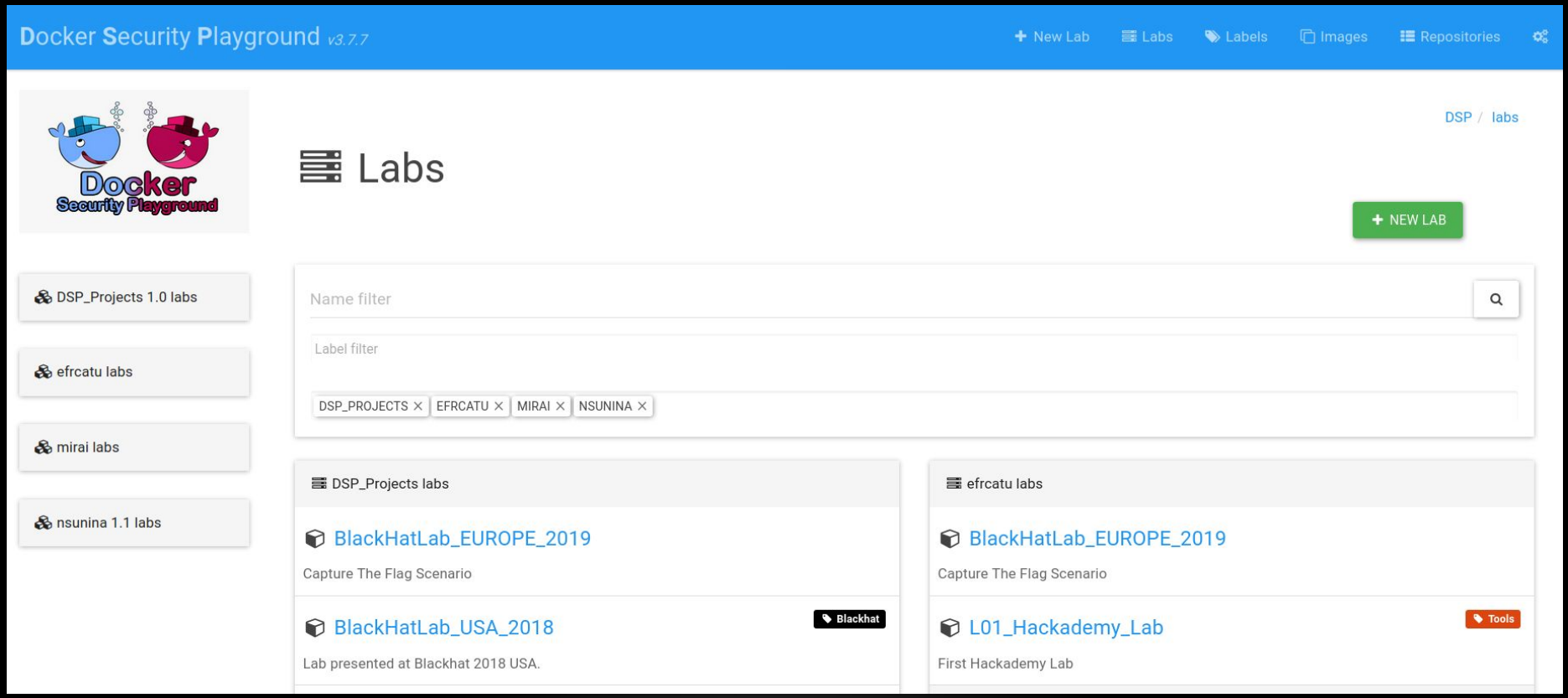
LEARNING NETWORK SECURITY

- No other subject has ever needed a bigger hands-on approach...
  - ...but, we can not just break into real-world infrastructures
- Virtualized Environments ensure an experimental approach
  - VMs heavy and poorly flexible
- Docker containers lighten the mood
  - Automated and highly configurable platform

DOCKER SECURITY PLAYGROUND

- A system for creating and managing virtual network infrastructures
- Tailored to the study of network security
- A suite of virtual labs
  - Organized into repositories
  - Publicly available in the Internet
  - Conceived as "sharable" learning assets

DSP AT WORK


Docker Security Playground v3.7.7
New Lab
Labs
Labels
Images
Repositories
Docker Security Playground
DSP / labs
Labs
NEW LAB
DSP_Projects 1.0 labs
efrcatu labs
mirai labs
nsunina 1.1 labs
Name filter
Label filter
DSP_PROJECTS
EFRCATU
MIRAI
NSUNINA
DSP_Projects labs
BlackHatLab_EUROPE_2019
Capture The Flag Scenario
BlackHatLab_USA_2018
Blackhat
Lab presented at Blackhat 2018 USA.
efrcatu labs
BlackHatLab_EUROPE_2019
Capture The Flag Scenario
L01_Hackademy_Lab
Tools
First Hackademy Lab

INSTALLING DSP FROM SCRATCH (UBUNTU)

- Requirements:
  - Docker (https://docs.docker.com/install/linux/docker-ce/ubuntu/)
  - docker-compose (https://docs.docker.com/compose/install/)
  - Nodejs (https://github.com/nodejs/help/wiki/Installation)
  - build-essential
  - Python (if not already shipped with your Linux distribution)
- git clone https://github.com/giper45/DockerSecurityPlayground.git
- cd DockerSecurityPlayground
- npm install
- npm start
- http://localhost:8080

DSP USER GUIDE

- Dedicated github Wiki
  - https://github.com/giper45/DockerSecurityPlayground/wiki
  -
- Docker Security Playground official Youtube channel
  - tons of tutorials:
    - Installation
    - Design of Laboratories
    - Integration of personal repositories
  - https://www.youtube.com/channel/UCkmz_sagT7_kxSdmttDWg9A