



KubeCon



CloudNativeCon

Europe 2022

WELCOME TO VALENCIA





KubeCon



CloudNativeCon

Europe 2022

Cloud-Native Building Blocks: An Interactive Envoy Proxy Workshop

Jim Barton and Adam Sayah, Solo.io



About Us

Join us on **slack.solo.io** if you have any questions.

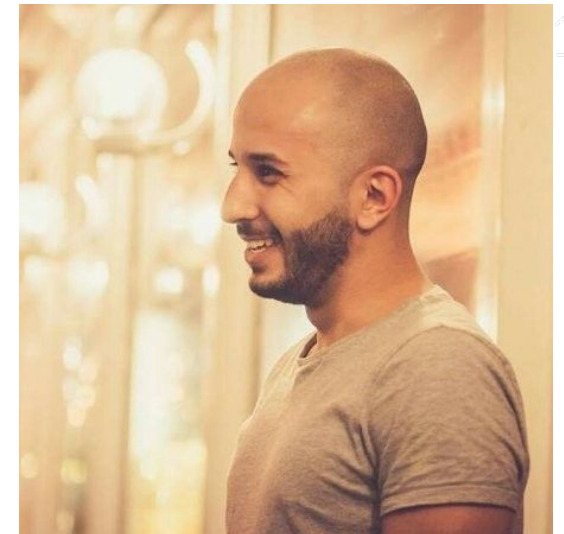


Jim Barton

Field Engineer

🐦: @jameshbarton

Solo.io



Adam Sayah

Field Engineer

🐦: @_asayah

Solo.io



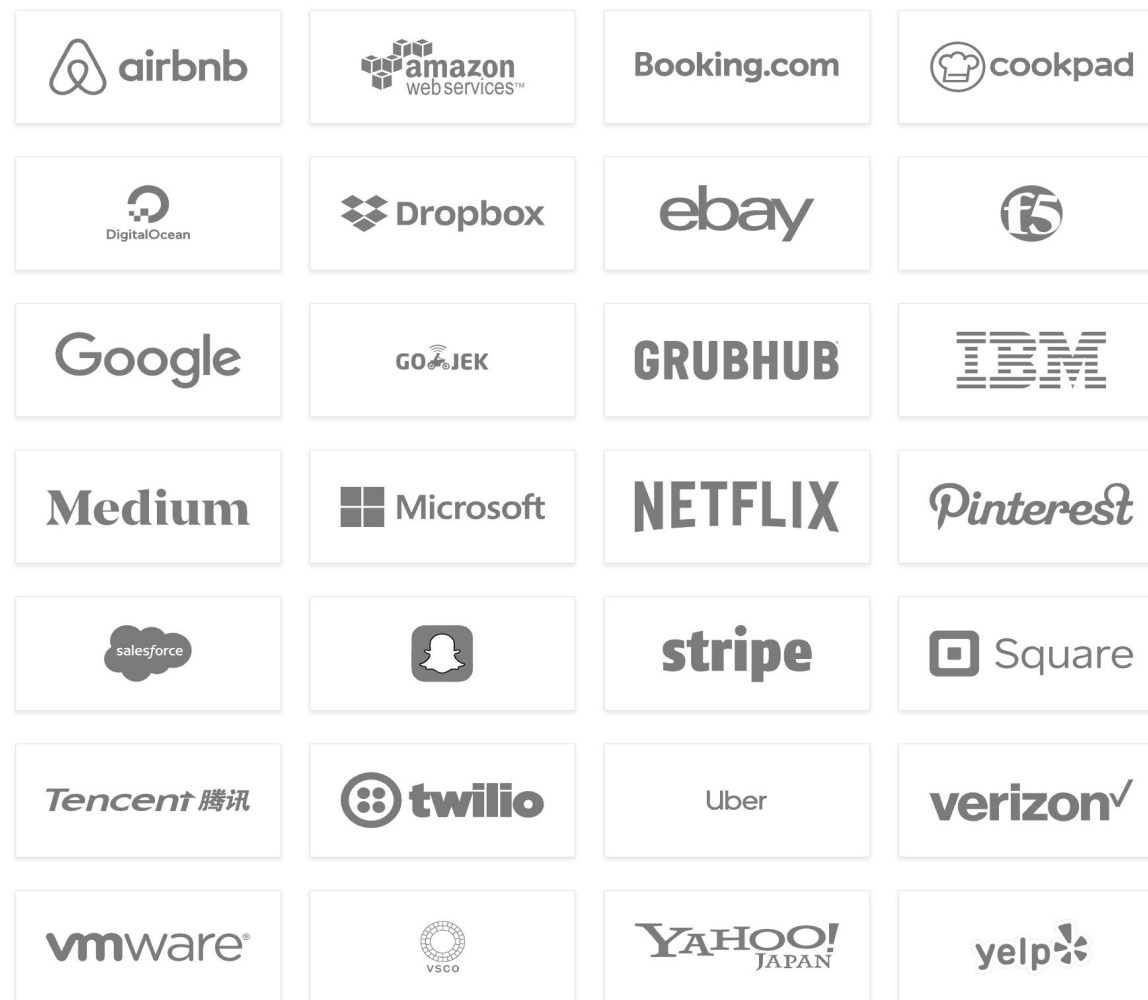
What is Envoy Proxy?

- Open-source proxy originally built by Lyft
- Graduated CNCF Project
 - Donated in 2017
- Extraordinarily Fast and Scalable
- Works at L4 and L7 (HTTP/1, HTTP/2, gRPC, redis, mysql, Kafka, etc)
- Built ground-up for dynamic services environment
- Dynamically configurable
- Highly extensible
- Extensive telemetry out of the box



Why Envoy Proxy for API Infrastructure?

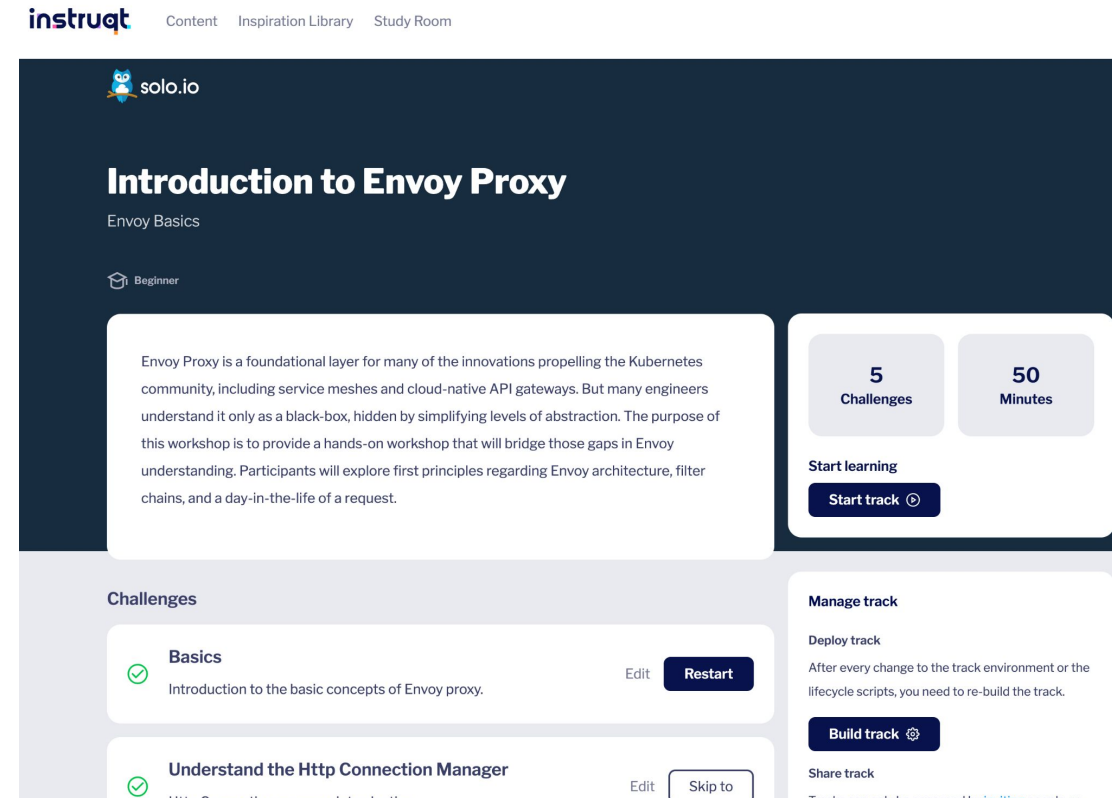
- Large, diverse, vibrant community
- Extensible from Day 1
- Dynamically configurable
- Foundation for many cloud-native application networking products:
 - Multiple service mesh platforms, including Istio
 - Multiple API gateways
 - Bottom Line: Battle-Tested



Source: envoyproxy.io

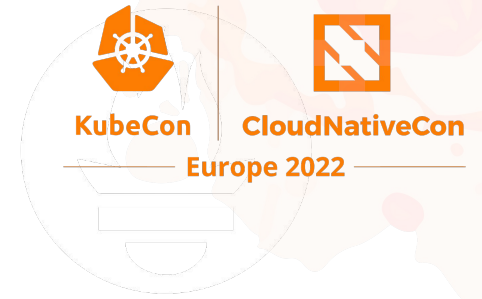
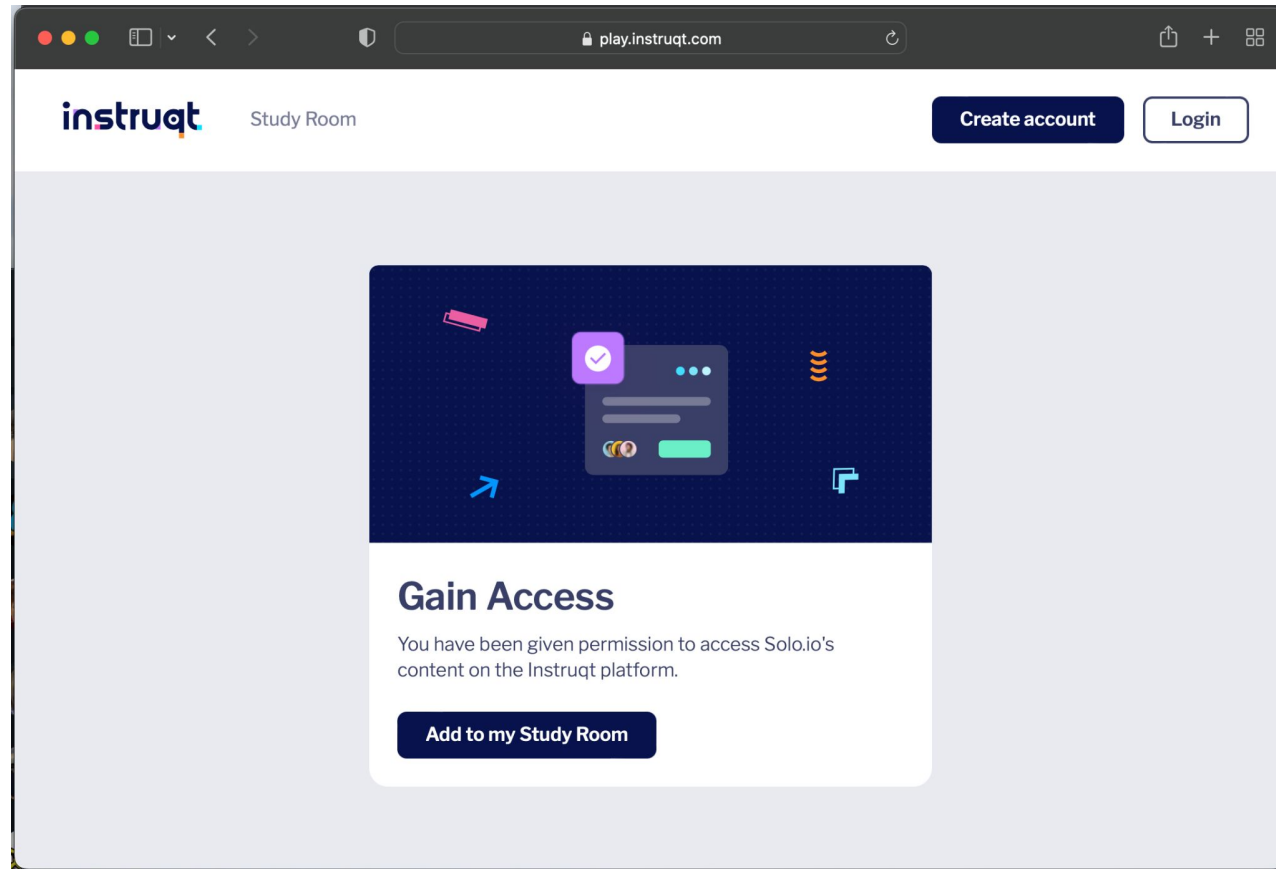
Hands-On Workshop

- Hosted on Instruqt platform
 - Provisioned compute environment
 - All you need is a browser and Internet connection
- Five Exercises:
 - Envoy Basics
 - Understanding HTTP Connection Manager
 - Security
 - Observability
 - Debugging
- (Optional) Envoy Foundations Certification Exam to follow



GET STARTED NOW!
<http://bit.ly/envoy-workshop>

Hands-On Workshop: Gaining Access

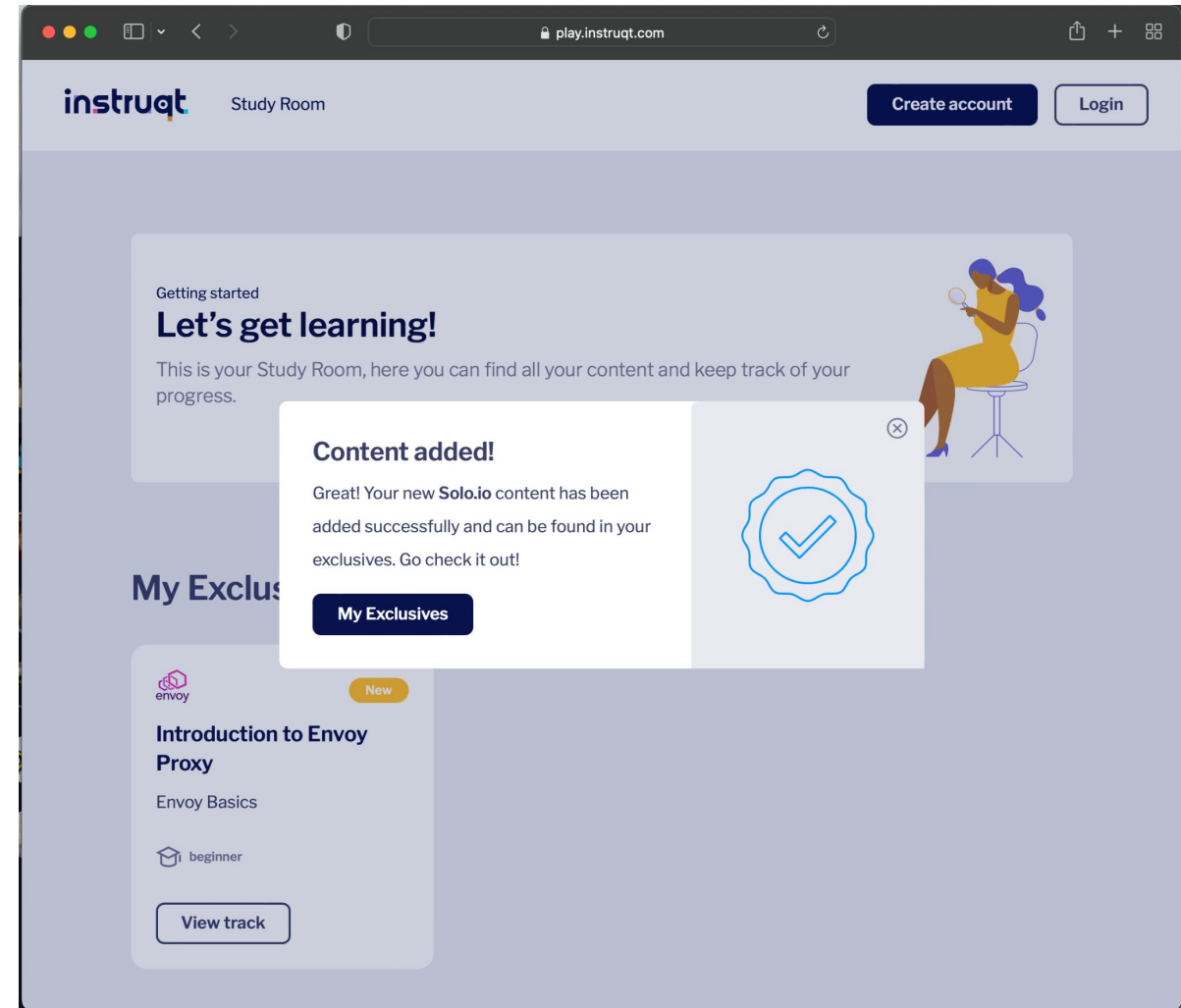
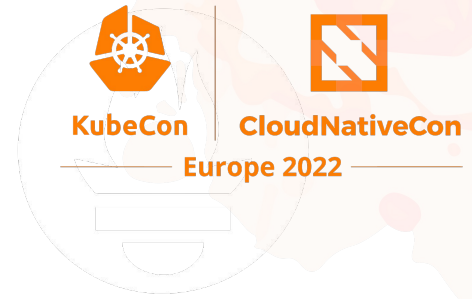


PromCon
North America 2021

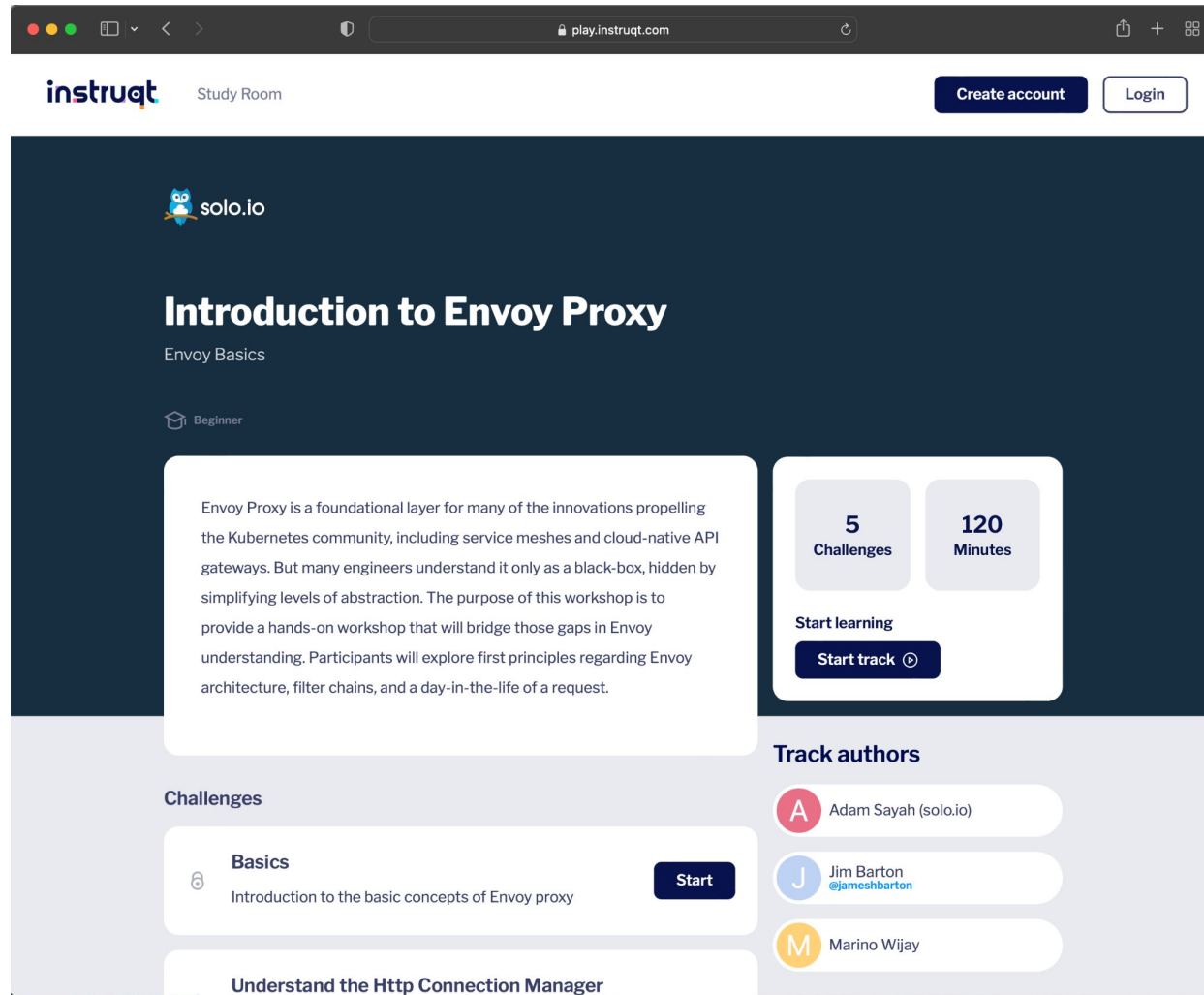
GET STARTED NOW!
<http://bit.ly/envoy-workshop>

Hands-On Workshop: Content Available

GET STARTED NOW!
<http://bit.ly/envoy-workshop>



Hands-On Workshop: Start the Instruqt Track



The screenshot shows the Instruqt website interface. At the top, there's a navigation bar with the Instruqt logo, 'Study Room' text, and 'Create account' and 'Login' buttons. The main content area features the 'solo.io' logo and the title 'Introduction to Envoy Proxy' with the subtitle 'Envoy Basics'. A 'Beginner' badge is visible. A descriptive paragraph states: 'Envoy Proxy is a foundational layer for many of the innovations propelling the Kubernetes community, including service meshes and cloud-native API gateways. But many engineers understand it only as a black-box, hidden by simplifying levels of abstraction. The purpose of this workshop is to provide a hands-on workshop that will bridge those gaps in Envoy understanding. Participants will explore first principles regarding Envoy architecture, filter chains, and a day-in-the-life of a request.' To the right, statistics show '5 Challenges' and '120 Minutes', with a 'Start learning' section containing a 'Start track' button. Below, the 'Track authors' section lists Adam Sayah (solo.io), Jim Barton (@jameshbarton), and Marino Wijay. The 'Challenges' section lists 'Basics' (Introduction to the basic concepts of Envoy proxy) with a 'Start' button, and 'Understand the Http Connection Manager'.

instruqt Study Room [Create account](#) [Login](#)

solo.io

Introduction to Envoy Proxy

Envoy Basics

Beginner

Envoy Proxy is a foundational layer for many of the innovations propelling the Kubernetes community, including service meshes and cloud-native API gateways. But many engineers understand it only as a black-box, hidden by simplifying levels of abstraction. The purpose of this workshop is to provide a hands-on workshop that will bridge those gaps in Envoy understanding. Participants will explore first principles regarding Envoy architecture, filter chains, and a day-in-the-life of a request.

5 Challenges 120 Minutes

Start learning

Start track

Track authors

- Adam Sayah (solo.io)
- Jim Barton (@jameshbarton)
- Marino Wijay

Challenges

- Basics**
Introduction to the basic concepts of Envoy proxy [Start](#)
- Understand the Http Connection Manager

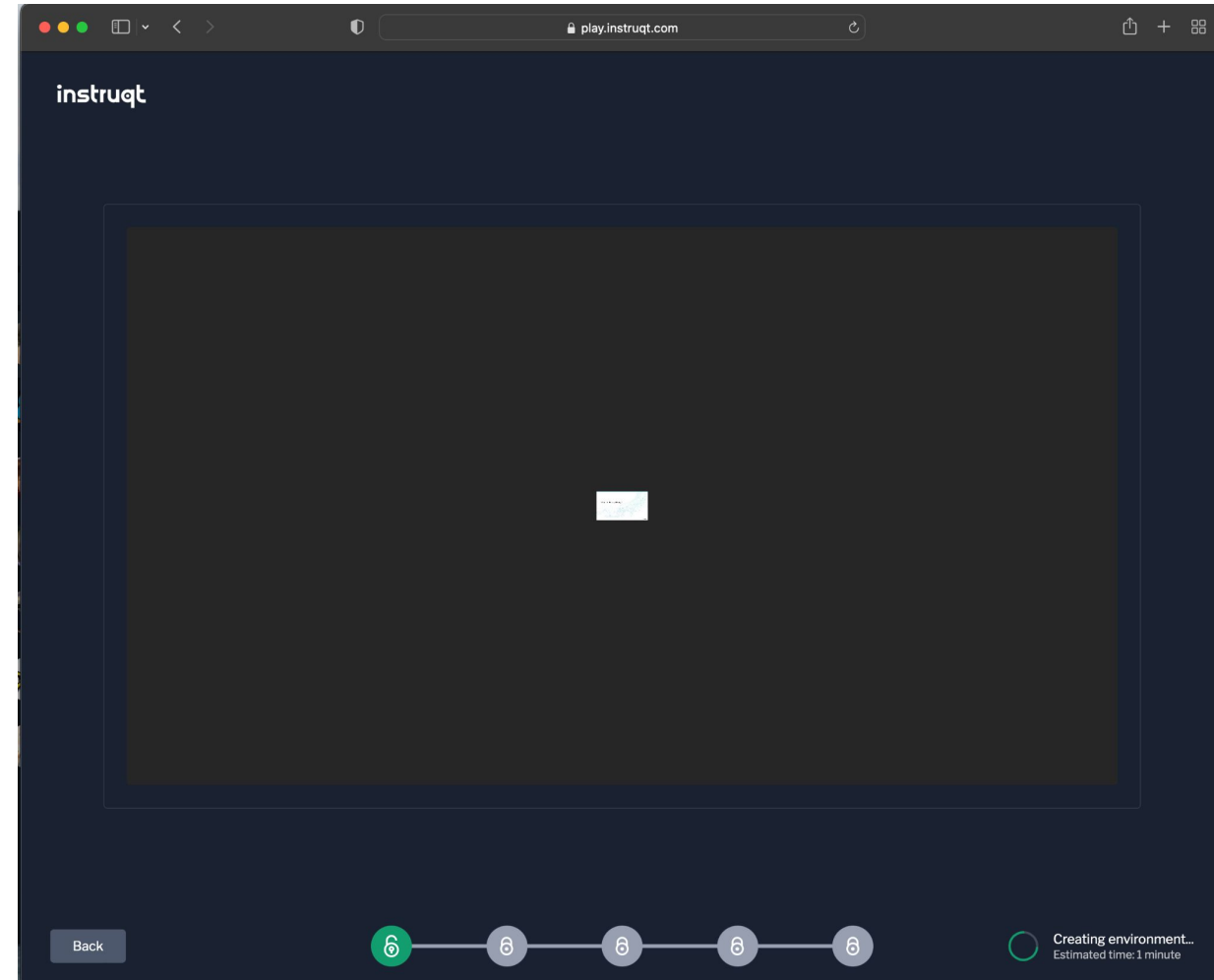
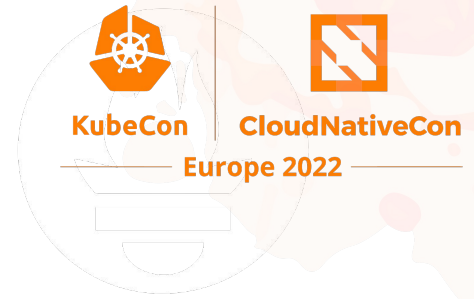


PromCon
North America 2021

GET STARTED NOW!
<http://bit.ly/envoy-workshop>

Hands-On Workshop: Launch Track 1


GET STARTED NOW!
<http://bit.ly/envoy-workshop>



Envoy Foundations Badge

- Inspired by Solo certification program for Istio and eBPF.
- Envoy Foundations Exam is available now.
- Requires $\geq 80\%$ correct on tests.
- Retake is allowed.
 - Use a different email address for each attempt.
- Badge will be issued within a few weeks.
 - Suitable for Framing (or LinkedIn)





Interested in joining our
team? We are hiring!

<https://www.solo.io/company/careers/>

Visit with Solo at KubeCon + CloudNativeCon

1

In Person

Visit us at Booth **S10** in the Solutions Showcase

Stop by for a demo and talk with our experts

Get scanned for a chance to win a Millenium Falcon Lego Set - one winner each day

2

Virtually

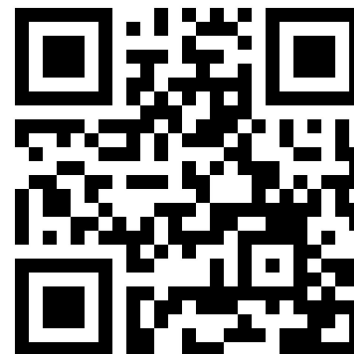
Visit our virtual booth, chat with our experts and request a demo


Attend our virtual-live office hour sessions on hot topics

Enter our virtual giveaway for a chance to win Apple AirPods and an Istio in Action eBook

Envoy Foundations Badge

- Inspired by Solo certification program for Istio and eBPF.
- Envoy Foundations Exam is available now.
- Requires $\geq 80\%$ correct on tests.
- Retake is allowed.
 - Use a different email address for each attempt.
- Badge will be issued within a few weeks.
 - Suitable for Framing (or LinkedIn)
- Exam is a Google form at <http://bit.ly/envoy-exam>
 - Or Scan QR Code =====>





Interested in joining our
team? We are hiring!

<https://www.solo.io/company/careers/>