



KubeCampus Anniversary Webinar



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Kasten by Veeam



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Housekeeping

1. Ask Questions in Q and A window, chat in Chat Window
2. Online Poll – we'd love your inputs
3. Stay until the end - \$200 Gift Card
4. We are recording – Slides and Replay will be shared via email
5. Register for Learning labs at KubeCampus.io

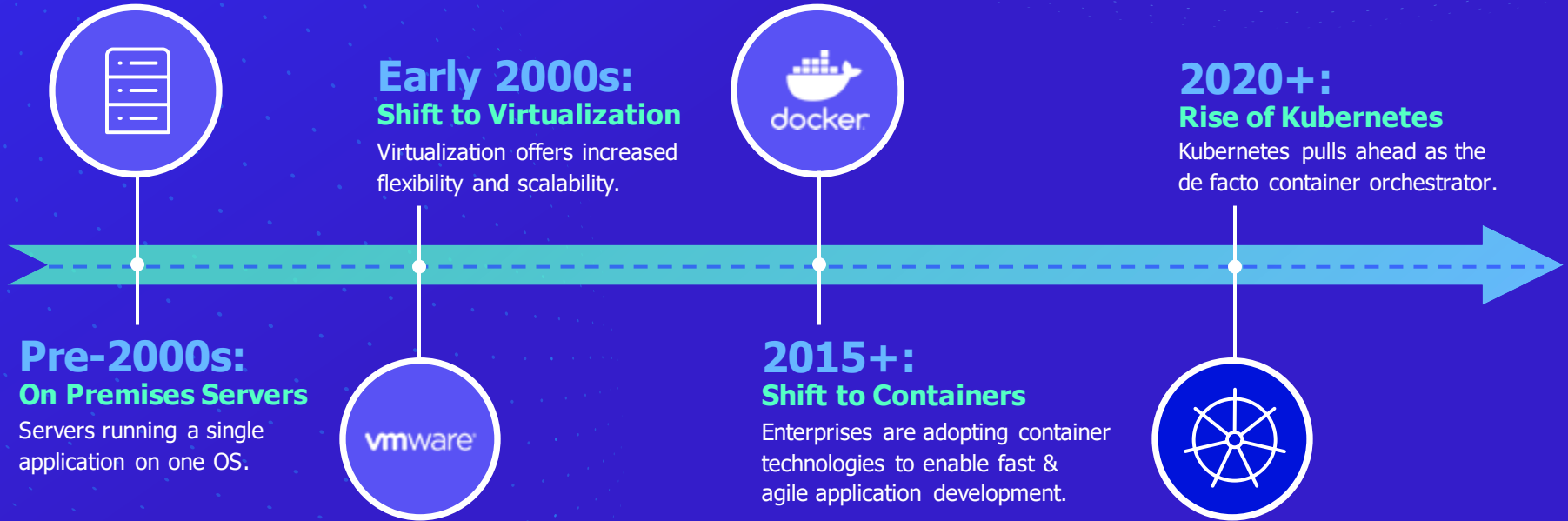


Agenda

- Market Trends Update
- Learning Through Community
- KubeCampus Highlights
- What's Next?
- Demo Lab
- Resources
- Q and A
- Gift Card

Kubernetes is fastest-growing infrastructure software

Becoming the leading enterprise application platform



Hybrid Cloud is the Standard

50%

Plan to increase
number of current
cloud providers¹

97%

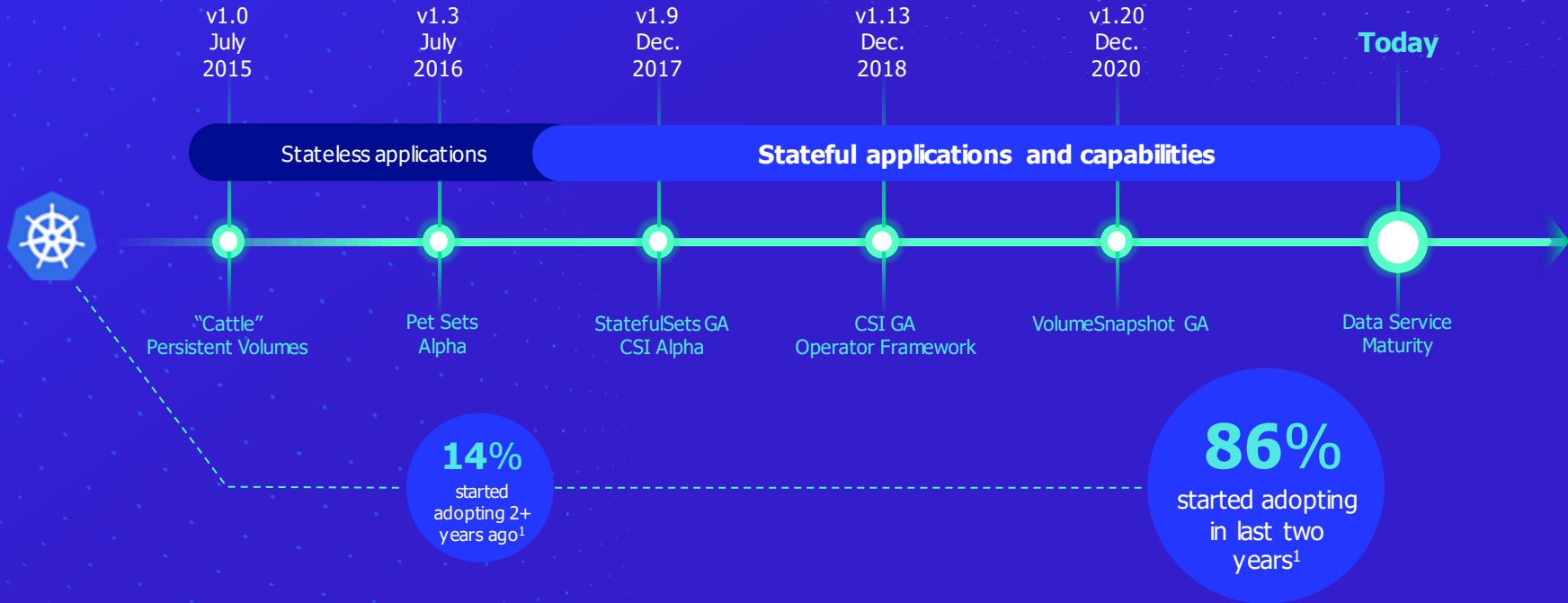
Agree their business
requires a mix of cloud
and on-premises
resources¹

88%

Agree hybrid and/or
multi-cloud strategy
directly drives
business results¹

¹ 2022 Microsoft Cloud Survey (Harris Poll)

From Stateless to Stateful



¹ [2021 Data on Kubernetes Report \(N=502\)](#)

Learning Through Community



agram ~
KUBE CAMPUS

37 likes
#KubeCampus #learning #
#fundamentals #K8s #bac
#applications #community
I work
at Learning
Featuring Kube



KUBE CAMPUS
FREE #1 Kubernetes Learning Platform
**Learning Day
Featuring Kubernetes
by KubeCampus**
SNAP A PIC HERE!



EXIT

EMERGENCY EXIT
Unlocked by
Fire Alarm
Système de secours
DÉVERROUILLÉE AU
SON DE L'ALARME
INCENDIE

Women in Cloud Native Panel

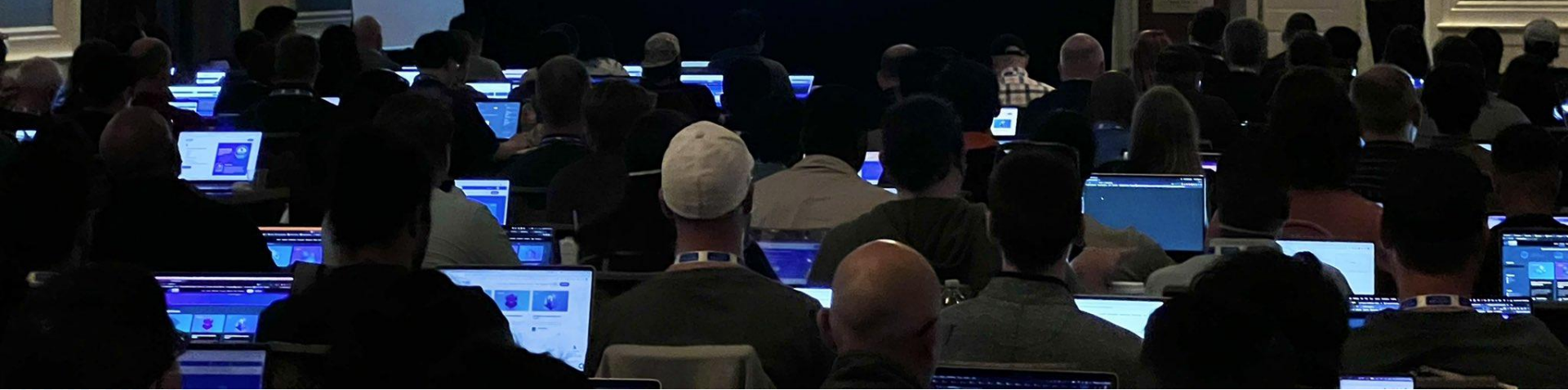
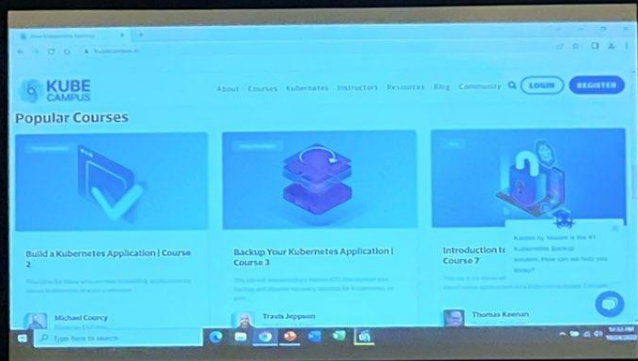
Join KubeHuddle speakers for a
discussion on diversity in tech!

Kasten Workshop Room: 717B
11:00am – 11:45am

- Panelists:
- Adriana Villela, Light
 - Aurélie Vache, OVHc
 - Diana Pham, Vonage
 - Julia Furst-Morgado,
 - Lian Li, Loft Labs

Moderator: Cassandra
Community Manager,
Kasten by Veeam







Online Poll



The KubeCampus Story

Enterprise Kubernetes Data Protection Challenges

74%

of organizations think traditional and container-based applications can be backed up the same way.*
(they can not!)

85%

of companies have experienced at least 1 ransomware attack in the past year.**

93%

of organizations think multi-cloud support for container backup is important*

75%

of organizations indicate a skill shortage in their Kubernetes backup and recovery teams.*

* ESG Measuring the Current State and Momentum in the Market for K8s Protection

** 2023 Veeam Data Protection Trends Report

Where it all began



kubernetes

Learning
kasten.io
by Veeam



The screenshot shows the Learning Kasten.io homepage. At the top, there's a navigation bar with links for Home, Labs, Introduction, Blog, Resources, and Community. The main heading is "Free Kubernetes Training" with a subtext "Learn from our Kubernetes experts at your own pace" and a "REGISTER NOW" button. Below this, it says "Kubernetes Education, Certification and Community" and "Earn valuable badges after each lab. Complete 3 labs for a certification". There are three "Popular Labs" cards: "Build your first Kubernetes Cluster", "Build a Kubernetes Application", and "Backup your Kubernetes Application".

The screenshot shows the "Start Now!" section of the Learning Kasten.io website. It features four "Expert Instructors" with their names and photos. Below them, it lists "Technologies you will learn:" with icons for Kubernetes, Docker, Helm, and Terraform. The "Start Now!" section includes a list of steps: "1. Take the self-level self assessment", "2. Review the background topics & videos", "3. Start learning", "LAB 1 - Kubernetes overview and creating a cluster", "LAB 2 - Building and testing an application", and "LAB 3 - Backing up an application". There is a "START SELF ASSESSMENT" button. At the bottom, there's a progress bar with four stages: "1 Pre-Work (Review pre-study materials)", "2 Concepts Review (Start the journey - 20 minutes)", "3 Hands-On Practice (Real use cases - 40 minutes)", and "4 Reward (Badges, Points, and Certificates)".

Free Kubernetes training – **Unique hands-on experience** – Created by experts

KubeCampus

Community First – Open to all



Transformation

- Neutral, Community Driven
- Still free – always!

New Site: User Experience, Structure, Labs

- New Look and feel
- Optimized Learning Flow and navigation
- New Structure - courses composed of lessons – Blog, ppt, VOD, hands on lab
- More high-quality labs and content on diverse topics

Let's partner!

- Join us – Technology, instructional and content partners are welcome
- Let's explore co-produced labs, joint training sessions (live and virtual), new content, competitive sessions

KubeCampus by the Numbers

- 26,465 students
- 16,360 completed labs
- Lots of resources!

Top 3 Labs:

1. Build a Kubernetes Cluster
2. Build a Kubernetes App
3. Backup a Kubernetes App



Lab Badges

Collect them all!



Account
Creation



Lab 1



Lab 2



Lab 3



Learning Day Rookie



Learning Day Pro



Labs 1-3



Lab 4



Lab 5



Lab 7



Lab 8



Lab 14

Great Partners Deepen the Experience

- Technology
- Instructional and Content
- Community



SCALITY



WeAreDevelopers

 **StormForge**



Kubernetes Learning Day



KUBE CAMPUS
KubeCampus
Learning Day: Mastering Kubernetes
"Take your Kubernetes knowledge to the next level!"
Healthy Conference
March 10-11, 2020

StackRox

StackRox

Thank you,
KubeCampus
Partners!



chat with me about partnerships. Our current two partners are Scality and Storm Forge and
Scality has been putting out





The Future of KubeCampus

Make the most of your learning



- Consistency
- Go beyond labs
- Share your journey
- Join the conversation
- Rely on community

Learning Day – November 6




- 2-year anniversary celebration
- Ransomware lab
- Coding competitions
- Exclusive badge
- And more surprises!

Immutable Backup Protection Ag x Free Kubernetes Training x

https://kubecampus.io

CodeMash DevRel Tech Community Kasten Learning Veeam Resources


 About Courses Kubernetes Instructors Resources Blog Community Partners [LOGIN](#) [REGISTER](#)

Start your Kubernetes journey now!

1 → 2 → 3

Take the skill level self assessment
Review the background blogs & videos
Start **learning!**

[SELF ASSESSMENT QUIZ](#)


 **Education**
Courses
Assessment test
Resources
Register

Engagement
Community
Instructors
Kubernetes?
Partners

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Ransomware Lab Introduction

Objectives and Prework



Objectives

- Learn about the attack vectors that Ransomware bad actors use
- Understand how to protect data and ensure swift recovery in case of breaches
- Learn about the principles of immutable backups, which prevent any modifications after being written

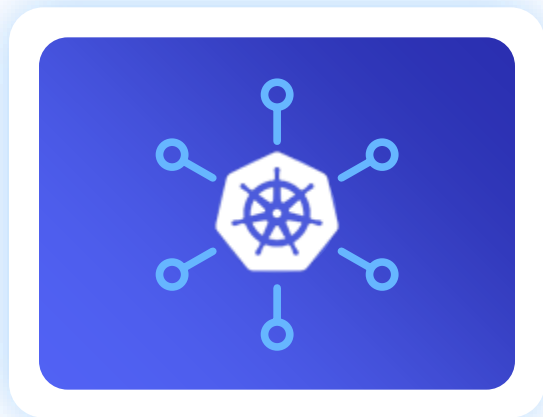
Prework Requirements

- For all users
 - Blog
 - Slides
 - VOD
- For advanced users
 - [K10 documentation](#)
 - [Free K10 download](#)



Part 1

Theory



- Immutable Backups and Object-locking
- Compatibility with Immutable Backups
- Protection against Sophisticated Attacks
- K10's Response to Attacks

Part 2

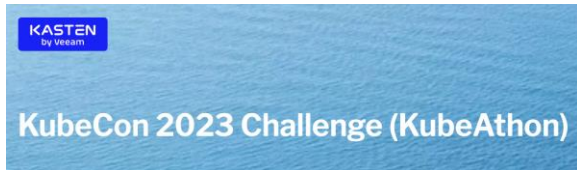
Defeating Ransomware Handson



- Install and Configure Kasten K10 and MinIO
- Set up MySQL and Establish a Sample Database
- Backup Policy Creation
- Simulate a Ransomware Attack and Analyzing Implications
- Recover from a Worst-Case Scenario Attack using K10

Coding Challenge Sneak Peek

Objectives and Prework



Objectives

- You are the DevOps team of a popular e-commerce company that uses the Online Boutique platform. Post recent deployment, there have been misconfigurations in the system which have made certain services inoperable. Your task is to ensure all services are up and running, ensure data integrity, and implement disaster recovery using Kasten K10

Prework Requirements

- For all users
 - Blog
 - Slides
 - VOD
- For advanced users
 - [K10 documentation](#)
 - [Free K10 download](#)

Kasten team page - Instruct x Immutable Backup Protection Ag x +

https://play.instruct.com/manage/kasten/tracks/immutable-backup-protection-with-kasten-k10

CodeMash DevRel Tech Community Kasten Learning Veeam Resources

instruct

- Content
- Share Content
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 - Users
- Settings

Updates

Inspiration Library

Documentation

Support

Cassandra Faris

Immutable Backup Protection Against Ransomware Attacks with Kasten K10

Lab Overview

Welcome to this in-depth hands-on lab, where we delve into the pivotal role of immutable backups in ransomware protection, using Kasten K10 as our tool of choice.

In today's digital landscape, ransomware attacks are becoming increasingly sophisticated and commonplace. Protecting our data and ensuring swift recovery in case of breaches are paramount. This is where the principles of immutable backups, which prevent any modifications after being written, come into play.

This lab is segmented into two significant parts:

- Theory Quizzes:** Begin your journey by testing your foundational knowledge on ransomware attacks, their impact, and the principles of immutable backups:
 - Immutable Backups and Object-locking
 - Compatibility with Immutable Backups
 - Protection against Sophisticated Attacks
 - K10's Response to Attacks
- Hands-on Challenges:** Dive deep into the practical world where you'll be:
 - Installing and Configuring Kasten K10 and MinIO
 - Set up MySQL and Establish a Sample Database
 - Backup Policy Creation
 - Simulate a Ransomware Attack and Analyzing Implications
 - Recovering from a Worst-Case Scenario Attack using K10

Upon the completion of this lab, you will have a comprehensive understanding of how immutable backups work and their significance in ransomware protection. You'll be equipped with the skills to configure Kasten K10 effectively, ensuring robust data backup and recovery mechanisms are in place for your infrastructure.

Timelimit 180 min

- Hide stop button from users
- In maintenance
- Show countdown timer
- Allow skipping

Tags

- immutable-backups
- kasten-k10
- kubernetes
- ransomware-protection

Statistics

Plays in last 30 days	15
Happiness score	4.7

Browser window showing the URL: <https://play.instruqt.com/manage/kasten/tracks/immutable-backup-protection-with-kasten-k10>

Navigation menu (left):

- Content
- Share Content
- Reporting
 - Overview
 - Plays
 - Users
 - Settings
- Updates
- Inspiration Library
- Documentation
- Support

User: Cassandra Fa...

Track: Immutable Backup Protection with Kasten K10

Tags: immutable-backups, kasten-k10, kubernetes, ransomware-protection

Challenges

- Immutable Backups and Object-locking**
- Compatibility with Immutable Backups**
- Protection against Sophisticated Attacks**
- K10's Response to Attacks**
- Installing and Configuring Kasten K10 and MiniO**
Dive deep into setting up Kasten K10 for data management and MiniO for object storage.
- Set up MySQL and Establish a Sample Database**
Let's jump right in and set up MySQL, creating a demo database to protect against potential ransomware risks.
- Backup Policy Creation**
Set up an hourly backup policy and secure your data in an object store.
- Simulate a Ransomware Attack and Analyzing Implications**
Engage in a simulation of a ransomware attack, recovering your systems and understanding the implications and restoration processes.
- Recovering from a Worst-Case Scenario Attack using K10**
Simulate a ransomware attack on K10 and its safeguarded applications, then meticulously restore your environment.
- Congratulations for completing the lab**
Well done!

Statistics:

Plays in last 30 days	15
Happiness score	4.7

instruct

- Object-locking ensures that data is immutable for a specified period.
- Immutable backups primarily serve to compress and reduce storage space.
- Immutable backups protect against tampering, ensuring reliable data recovery even post-ransomware attacks.
- Object-locking only works for certain types of files.

Select all the correct answers.

Progress 3h

Immutable Backups and Object-locking

Which of the following statements about Immutable Backups and Object-locking is correct?

Exit Skip Next



Insightful Content

Ebooks, Blog Posts, Webinars



Ebooks

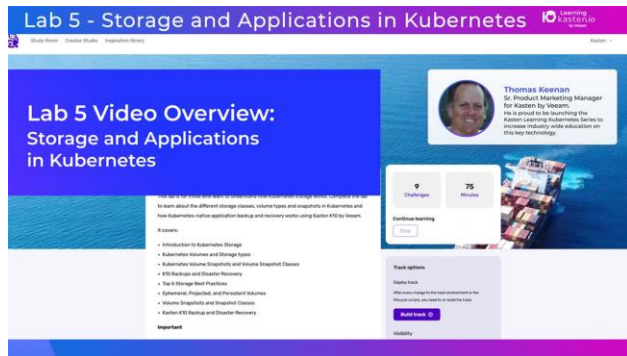
- Gorilla Guides – [Getting Started](#), [Storage](#), [Security](#), [Observability](#)
- Dummies Guide

Blog Posts

- Diverse topics of interest to Kubernetes Community
 - [Application Consistency](#), [OIDC](#), [Networking](#), [Security](#), [Minikube](#)
- [Beginner](#) and [Pro](#) Journeys
- Submit yours today! Contact@KubeCampus.io

Video Recordings and Webinars

- VODs accompany each Lab
- Live Webinars on [Security](#), [Storage](#), [Application Monitoring](#) and other topics
 - Also available on demand



KubeCampus Turns 2!

Join the celebration!



<https://kubecampus.io/anniversary/>



1. Special Blog Series (for Rookies & Pros)



2. Complete courses, earn points & be featured on our leaderboard: The Wall of fame (for Rookies)



3. Complete courses and earn your special edition badge (for Rookies & Pros)



4. Complete advanced courses and earn your personalized Certificate of Excellence (for Pros)

Questions ?

The \$200 gift card winner is...





Thank You