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VIRTUAL SUMMIT

Continuous Delivery in a Cloud Native World

*Learn DevOps, Kubernetes, Jenkins X, and
Cloud from Industry Leading Developers.*

Tuesday, April 30, 2019 | 11 AM ET - 4 PM ET

AGENDA

All sessions are scheduled in Eastern Standard Time (EST)

11:00 AM - 11:10 AM	Expanding Universe of Jenkins Kohsuke Kawaguchi	1:40 PM - 2:10 PM	Observability: Building a Bridge from Software Development to Software Ownership Christine Yen
11:10 AM - 11:40 AM	Serverless Jenkins with Tekton James Strachan	2:10 PM - 2:40 PM	DevOps Automation in Edge Engineering Justin Ryan
11:40 AM - 12:10 PM	Kubernetes CI/CD with AWS EKS and Jenkins X Henryk Konsek	2:40 PM - 3:10 PM	Progressive Delivery in Kuber- netes: Automatic Canary Deployments Carlos Sanchez
12:10 PM - 12:40 PM	Cloud Native CI/CD with Jenkins X and Knative Pipelines Christie Wilson, James Rawlings	3:10 PM - 3:35 PM	Adopting Jenkins-X at Simpli- fied Telephony Solutions Matthew Labrasseur
12:40 PM - 1:10 PM	Jenkins and Kubernetes - Secret Agents in the Cloud Mandy Hubbard	3:35 PM - 4:00 PM	Working Backwards to Deliver Software at Amazon Arun Gupta
1:10 PM - 1:40 PM	Our Experience Running Jenkins X in Production Vincent Behar		

11:00am - 11:10am

Expanding Universe of Jenkins



Kohsuke Kawaguchi

Kohsuke Kawaguchi, Creator/lead developer of Jenkins, CTO, CloudBees

Kohsuke welcomes you to this event by putting Jenkins X in the broader history and evolution of the Jenkins project.

11:10am - 11:40am

Serverless Jenkins with Tekton



James Strachan

James Strachan, Distinguished Engineer, CloudBees

This session will introduce you to the new Tekton-based serverless Jenkins solution in Jenkins X and show you how to do automated CI/CD in a truly serverless fashion using Jenkins X Pipelines. If you don't know what Jenkins X is—don't worry. This session will include a quick recap of how things got to where they are this month with this fast moving project.

11:40am - 12:10pm

Kubernetes CI/CD with AWS EKS and Jenkins X



Henryk Konsek

Henryk Konsek, Chief Architect, Capsilon DMS

Kubernetes' promise is to deliver a platform which simplifies deployment and scheduling of your application. The building blocks provided by this project are a solid foundation for modern DevOps platform, but bringing all these moving parts together can be overwhelming.

In this presentation I will demonstrate how you can create Jenkins X on the top of AWS EKS service. You will also see how easy it is to create a new Spring Boot application and let Jenkins X deploy it into your Kubernetes cluster.

12:10pm - 12:40pm

Cloud Native CI/CD with Jenkins X and Knative Pipelines



Christie Wilson



James Rawlings

Christie Wilson, Software Engineer, Tools and Infrastructure, Google
James Rawlings, Co-Creator of Jenkins X & Coder, CloudBees

More and more teams are deploying cloud native applications on Kubernetes, placing new demands on engineers who want to deploy and test easily during their development workflow. Traditional CI/CD systems haven't been designed for cloud native environments and need to evolve. Jenkins X is a cloud native CI/CD platform that has done just that, integrating tools in the Kubernetes ecosystem into an opinionated system for CI/CD as code.

In this talk, we'll explain the CI/CD challenges in a cloud native landscape, and show how Jenkins X rises to the occasion by leveraging open source cloud native technologies like Knative Pipelines. We'll demo a GitOps-based Jenkins X workflow, showing how simple Jenkins X makes it for developers to stage and deploy changes on demand.

12:40pm - 1:10pm

Jenkins and Kubernetes – Secret Agents in the Cloud



Mandy Hubbard

Mandy Hubbard, Software Engineer/QA Architect, ShipEngine

Running containerized, ephemeral build agents in Jenkins allows you to isolate application dependencies and dynamically scale in response to fluctuations in CI/CD workloads, but you need a container orchestration solution or you trade in the management of individual Jenkins agents for management of individual container engines. In this session, you'll learn how to dynamically provision Jenkins agents to run on a Kubernetes cluster and build, test, and deploy applications to Kubernetes using Jenkins' scripted pipeline.

1:10pm - 1:40pm

Our Experience Running Jenkins X in Production



Vincent Behar

Vincent Behar, Go developer, Dailymotion

At Dailymotion, we started using Jenkins X a few months ago, and we are now running it in production. In this session, we'll get back on our reasons for selecting Jenkins X to run our CI/CD pipelines, and share our experience running it in production. We'll explain how we keep our Preview Environments under control using Osiris to scale them down to 0 when they are not used, and how we promote our releases to staging/production on different Kubernetes clusters using Helmfile – and the benefits of it.

1:40pm - 2:10pm

Observability: Building a Bridge from Software Development to Software Ownership



Christine Yen

Christine Yen, CEO, Honeycomb

CI and CD helps get software shipped faster, but how can we be sure that our software behaves how we expect once it's out in the wild (aka production)? Understanding how our systems behave in production can feed back into the software development process and help us ship not just faster, but more confidently.

In this session, we'll run through a series of examples of how Honeycomb uses Honeycomb and highlight our use of: feature flags, aggregate analysis and tracing for performance analysis in addition to outlier detection for identifying problem areas. Without this two way bridge, teams get frustrated, everything slows down and customers are impacted.

2:10pm - 2:40pm

DevOps Automation in Edge Engineering



Justin Ryan

Justin Ryan, Senior Software Engineer, Netflix

Reducing operational burden on engineers is critical to Netflix's style of DevOps, where the engineers who write the code also deploy it. Automating our deployment and canary processes using Spinnaker is integral to making this possible. I'll be showing the patterns my team uses to safely run many strategic services.

2:40pm - 3:10pm

Progressive Delivery in Kubernetes: Automatic Canary Deployments



Carlos Sanchez

Carlos Sanchez, Principal Software Engineer, CloudBees

Progressive Delivery is the next step after Continuous Delivery, making CD safer to adopt, where new versions are deployed to a subset of users and are evaluated in terms of correctness and performance before rolling them to the totality of the users and rolled back if not matching some key metrics. Canary deployments is one of the techniques in Progressive Delivery, used in companies like Facebook to roll out new versions gradually. But good news! you don't need to be Facebook to take advantage of it.

We will demo how to use Jenkins X on a Kubernetes cluster for fully automated CI, CD and Progressive Delivery with Canary deployments and rollbacks.

3:10pm - 3:35pm

Adopting Jenkins-X at Simplified Telephony Solutions



Matthew Labrasseur

Matthew Labrasseur, Vice President, IT, Simplified Telephony Solutions Inc.

Matthew explains the challenges he faced while implementing a CI/CD solution that could fit the complex applications for his company. The goal wasn't only to find a solution that could fit the company, but one that could satisfy his teams unique requirements. Simplified has many proprietary distributed systems and to ensure each team has a production-like environment was no easy task!

3:35pm - 4:00pm

Working Backwards to Deliver Software at Amazon



Arun Gupta

Arun Gupta, Principal Technologist, Amazon Web Services

The hallmark mechanism for all product development at Amazon is the Working Backwards Process. The process starts with writing a press release, FAQ and a manual even before a single line of code is written. This talk will explain the process and how it's used across Amazon for a continuous delivery of products and services.

Learn More About Our CloudBees Virtual Summit Speakers

Kohsuke Kawaguchi

Chief Technology Officer, Cloudbees

Kohsuke is the creator of Jenkins. He is a well-respected developer and popular speaker at industry and Jenkins community events. He is often asked to speak about his experience and approach in creating Jenkins; a continuous delivery platform that has become a widely adopted and successful community-driven open source project. The principles behind the Jenkins community – extensibility, inclusiveness, low barriers to participation – have been the keys to its success. Kawaguchi's sensibilities in creating Jenkins and his deep understanding of how to translate its capabilities into usable software have also had a major impact on CloudBees' strategy as a company. Before joining CloudBees, Kawaguchi was with Sun Microsystems and Oracle, where he worked on a variety of projects and initiated the open source work that led to Jenkins.

James Strachan

Distinguished Engineer, Cloudbees

James Strachan is the creator of Groovy, and Apache Camel. James is also the creator of the open source project, Jenkins X which helps developers automate CI/CD for cloud native applications and help them go faster.

Christie Wilson

Software Engineer, Tools and Infrastructure, Google

Christie Wilson (she/her) is a software engineer at Google, currently leading the knative build-pipeline project. Over the past ten years she has worked in the mobile, financial and video game industries. Prior to working at Google she led a team of software developers to build load testing tools for AAA video game titles, and founded the Vancouver chapter of PyLadies. In her spare time she influences company culture through cat pictures.

James Rawlings

Co-Creator of Jenkins X & Coder, CloudBees

James Rawlings is a co-creator of the open source project Jenkins X and works for CloudBees, where he aims to help developers and teams move to the cloud. James is passionate about automation and continuous improvement, always looking for new ways to help productivity or provide a better developer experience.

Carlos Sanchez

Principal Software Engineer, CloudBees

Carlos Sanchez specializes in software automation, from build tools to continuous delivery. Involved in open source for more than ten years, he is the author of the Jenkins Kubernetes plugin and a member of the Apache Software Foundation amongst other open source groups. Carlos has contributed several projects, such as Jenkins, Apache Maven and Puppet.

Henryk Konsek

Chief Architect, Capsilon DMS

Henryk is an architect and a technical consultant. Currently he works as a Chief Architect for Capsilon DMS (<https://capsilon.com>) and specializes in adoption of cloud technologies. Henryk is a big fan of AWS, DevOps, CI/CD, Jenkins and the Spring ecosystem. You can find him on Twitter at @hekonsek.

Mandy Hubbard

Software Engineer/QA Architect, ShipEngine

Mandy Hubbard has almost 20 years of professional QA experience, most of which has been spent in fast-paced startup environments driving product quality. She is passionate about ensuring quality through process improvements, test automation, following CI/CD best practices and all things DevOps. She is currently a Software Engineer/QA Architect at [ShipEngine] (<https://www.shipengine.com>) – the #1 shipping API.

Vincent Behar

Go Developer, Dailymotion

Vincent has been using Jenkins since 2007 and Kubernetes since 2015. He built the new CI/CD pipelines for Dailymotion's adtech platform, using Jenkins X on GKE.

Christine Yen

CTO/Co-founder, Honeycomb

Christine Yen is a co-founder of Honeycomb, a startup with a new approach to observability and debugging systems with data. Christine has built systems and products at companies large and small and likes to have her fingers in as many pies as possible. Previously, she built Parse's analytics product (and leveraged Facebook's data systems to expand it) and wrote software at a few now-defunct startups.

Arun Gupta

Principal Technologist, Amazon Web Services

Arun Gupta is a Principal Open Source Technologist at Amazon Web Services. He has built and led developer communities for 10+ years at Sun, Oracle, Red Hat and Couchbase. He has deep expertise in leading cross-functional teams to develop and execute strategy, planning and execution of content, marketing campaigns, and programs. Prior to that he led engineering teams at Sun and is a founding member of the Java EE team. Gupta has authored more than 2,000 blog posts on technology. He has extensive speaking experience in more than 40 countries on myriad topics and is a JavaOne Rock Star for four years in a row. Gupta also founded the DevOxx4Kids chapter in the US and continues to promote technology education among children. An author of several books on technology, an avid runner, a globe trotter, a Java Champion, a JUG leader, NetBeans Dream Team member, and a Docker Captain, he is easily accessible at @arungupta.

Justin Ryan

Senior Software Engineer, Netflix

Justin Ryan is a Senior Software Engineer in the Engineering Tools team at Netflix, where he applies his years of experience as a developer to the problems of build automation and dependency management, raising the bar for the quality of build tools and build analysis. He is tasked with finding patterns and best practices between builds and applying them back to the hundreds of projects at Netflix. Justin has worked on Web UIs to Server development to Embedded programming.

Matthew Labrasseur

Vice President, IT, Simplified Telephony Solutions Inc.

(Bio coming soon)