## UNDERSTANDING THE KUBERNETES ECOSYSTEM

### VIRTUAL SUMMIT

*Thursday, August 8, 2019 10:00 AM EST*

## AGENDA

*All sessions are scheduled in Eastern Standard Time*

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- Alan Shimel                                                      |
| 10:05 AM - 10:30 AM | Keynote: The Future of Kubernetes  
- Tim Hockin                                                      |
| 10:30 AM - 11:00 AM | Keynote: How Flexibility and Open Source Enable Businesses to Shape the Cloud-Native Future  
- Abby Kearns                                                    |
| 11:00 AM - 11:20 AM | Defining a Kubernetes Pipeline: A Case Study That Gets You Ready for Microservices  
- Steve Taylor & Nathan Martin                                    |
| 11:00 AM - 11:20 AM | Containers at Risk: A Review of 21,000 Cloud Environments  
- Dan Hubbard                                                    |
| 11:20 AM - 11:40 AM | Deep Dive into Containers Security  
- Shiri Ivtsan                                                    |
| 11:20 AM - 11:40 AM | Observability in Jenkins X  
- Oscar Medina                                                    |
| 11:45 AM - 12:15 AM | Application Observability with Kubernetes – Understanding the Benefits of Tracing, Logs and Metrics  
- Kevin Crawley                                                   |
| 11:45 AM - 12:15 AM | Kubernetes Best Practices and Architecture  
- Eamon Bauman & Samira Barouti                                    |
<p>| 12:15 PM - 12:45 PM | Visit the Solution Zones and ask questions!                                                   |</p>
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| 12:45 PM - 1:15 PM | **Keynote:** Kubernetes – Security Threat or Opportunity?  
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| 1:15 PM - 1:45 PM | Operators: Distributing Software in the Kubernetes Ecosystem  
- Josh Wood                                  | Naked and Afraid: Surviving the Kubernetes Sprawl  
- Moe Anderson & Gareth Greenaway              |
| 1:45 PM - 2:15 PM | The Evolution of the Kubernetes Landscape  
- Brandon Jung                                   | Kubernetes Security 101  
- Ali Naqvi                                      |
| 2:15 PM - 2:45 PM | Reality-Check: Key Considerations for Your Kubernetes Operationalization Strategy  
- Oleg Chunikhin & Terry Shea                    | The 4 Pillars of DevSecOps Observability  
- Frank Reno                                      |
| 2:45 PM - 3:15 PM | Kubernetes Monitoring and Metrics with Time Series  
- Gianluca Arbezzano                                  | Continuous Kubernetes Cluster Hygiene in Your CI+CD Pipeline  
- Gadi Naor                                      |
| 3:15 PM - 3:45 PM | Securing Kubernetes, Istio Service Meshes, and the Workloads That Run on Them  
- Gary Duan                                     | Why to Cloud Native  
- Karthik Gaekwad                                |
| 3:45 PM - 4:15 PM | Tracing is More Than Traces: The Insights in Trace Aggregates  
- Daniela Miao                                  | Uncharted Rapids: The Challenge of Storage for Kubernetes  
- Shailesh Mittal                               |
| 4:15 PM - 4:45 PM | Security as Code – Leveraging Kubernetes to Enable Better Security for Cloud-Native Applications  
- Kamal Shah                                    |                                                                                                                                    |
| 4:45 PM - 5:00 PM | **Keynote:** Stitching Things Together  
- Dan Kohn                                        |                                                                                                                                    |

** Make sure to join Kubernetes Ecosystem Scavenger Hunt! Earn points for watching sessions, visiting booths, chatting with Booth Representatives, and interacting with other summit features. Top 10 participants who receive the most points will win an Amazon Gift Card valued at $50 dollars!  
*** The Scavenger Hunt Leaderboard and all live chats in the Virtual Summit will close at 5:00 PM EST Time. The event will remain open for viewing.
10:00 AM - 10:05 AM

**Alan Shimel**, MediaOps

**Welcome & Agenda Overview**

Alan Shimel, CEO & co-founder at MediaOps, will give the opening remarks to the Kubernetes Virtual Summit.

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10:05 AM - 10:30 AM

**Tim Hockin**, Google Cloud

**Keynote: The Future of Kubernetes**

Join a discussion with Alan Shimel, founder and CEO of DevOps.com and ContainerJournal.com, and Tim Hockin, the founder of Kubernetes at Google, for an in-depth look at the state of Kubernetes and what is predicted for the future.

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10:30 AM - 11:00 AM

**Abby Kearns**, Cloud Foundry Foundation

**Keynote: How Flexibility and Open Source Enable Businesses to Shape the Cloud-Native Future**

Technology has fundamentally changed the way we live and the way we work. Enterprises have shifted from the question of “How can my company take advantage of the cloud?” to “What is cloud-native, and why do I need it?” in just a few short years. At the same time, they find themselves wondering, “What role does open source software play in this?” Perhaps most importantly, as software overtakes the business world, they ask, “How do I keep my technology team happy?” The answer to all of these questions is one word: flexibility.

Open source software offers flexibility, and the opportunity for broad collaboration. When combined with cloud-native application architectures and continuous delivery practices, large-scale transformation happens across every industry. In this talk, Abby Kearns will walk us through the cloud-native explosion, why it matters to enterprises, the flexibility it delivers and the role that open source software, platforms and ecosystems play in developing software at scale.

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11:00 AM - 11:20 AM

**Steve Taylor**, DeployHub

**Nathan Martin**, Sagecore Technologies

**Defining a Kubernetes Pipeline: A Case Study that Gets You Ready for Microservices**

Sagecore creates value by providing enterprise (ERP) solutions which are tailored to the needs and workflows of businesses, non-profits, education and government entities. With the increasing need for performance, security and manageability for an expanding customer base, Sagecore realized Kubernetes could provide these benefits and more!
The transition to Kubernetes and Docker was the best decision Sagecore had made. It enabled monitoring, collaboration and tighter library management as one service could be re-used by multiple Sagecore customers deployed into multiple private clusters.

While Kubernetes was extremely powerful, the process of deployment and management of Kubernetes was time-consuming and not as scalable as it needed to be. This is why Sagecore connected with DeployHub. DeployHub provided the platform for cataloging, sharing and deploying components and microservices with dependency tracking.

This presentation will tell the story about how Sagecore created a scalable and manageable Kubernetes pipeline using DeployHub to perform both configuration management and deployments of the shareable services and components.

Dan Hubbard, Lacework

Containers at Risk: A Review of 21,000 Cloud Environments

Securing workloads in public clouds requires a different approach than the one used for traditional data centers. The need to operate security at cloud speed, respond to continuous change and adapt at scale all require a dramatic shift in the type of security solution required by today’s operation. This session will deliver a detailed analysis of the threats and risks discovered by recent research done by Lacework when it comes to deploying containers and orchestration services such as Kubernetes running on AWS.

Shiri Ivtsan, WhiteSource

Deep Dive into Containers Security

Many organizations are using containers to develop and manage their applications. Containers enable development teams work faster, deploy more easily and efficiently, and operate at a much larger scale. However, there are many security measures that need to be taken across the entire software development lifecycle, especially when it comes to open source security.

In this session, Shiri Ivtsan, Product Manager at WhiteSource, will discuss: 1) The complexity and security challenges with containers; 2) the most common layers in a typical container deployment; and 3) how to build and automate a container security solution into each layer.

Oscar Medina, CloudBees

Observability in Jenkins X

If you are using Jenkins X, you’re already building at rapid pace. However, most miss the opportunity to gain real insights into their build and release pipeline. Oscar will show you how you can increase observability by activating metric capture and analysis during a containerized application deployment with Jenkins X. This entails modifying the declarative Tekton pipelines. In this session/demo, Oscar shows you how to do just that.

Kevin Crawley, Instana

Application Observability with Kubernetes - Understanding the Benefits of Tracing, Logs and Metrics

In this session, we will discuss how distributed tracing, logs and metrics (and analyzing their aggregates) offers the deepest level of observability available for cloud native workloads. Join our session to learn about: 1) The theory behind observability, 2) best practices for analyzing data (traces, logs, metrics); and 3) how to ship faster, and handle change management for large and complex distributed systems.
**Eamon Bauman**, Rancher Labs  
**Samira Barouti**, CloudOps  
**Kubernetes Best Practices and Architecture**

During this information session we will gain first-hand knowledge of a variety of Kubernetes best practices and architecture through an interview style presentation. Hosted by both Rancher and CloudOps, this presentation will help us navigate this complicated landscape by highlighting the answers to some of our most interesting questions about Kubernetes by engaging the experts directly.

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**12:15 PM - 12:45 PM**

**Visit Solution Zones and explore the uncharted waters of Kubernetes!**

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**12:45 PM - 1:15 PM**

**Liz Rice**, Aqua Security  
**Keynote: Kubernetes – Security Threat or Opportunity?**

When we run an application in containers under Kubernetes, we no longer control which machine a piece of code will run on. Does this constitute a security weakness? How do we cope when security patches need to be applied in response to vulnerabilities? In this talk, we will see how automation and DevSecOps processes can help us address these concerns, and explore how the properties of an orchestrated deployment can even help us keep our software safer from attack.

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**1:15 PM - 1:45 PM**

**Josh Wood**, Red Hat  
**Operators: Distributing Software in the Kubernetes Ecosystem**

Kubernetes scales and manages stateless applications quite easily. Stateful applications require more work. Databases, caching systems and file stores are harder to dynamically manage with data intact, and sometimes come with their own notion of clustering. Operators are Kubernetes agents that know how to deploy, scale, manage, backup and even upgrade complex, stateful applications. Operators are a pattern for extending Kubernetes and are at the heart of Red Hat’s OpenShift Kubernetes distribution. Operators make it easier to consume foundation software on orchestrated clusters, they present a Kubernetes-native mechanism for automating, packaging and distributing software. With Red Hat's OperatorHub.io catalog, an SDK supporting a growing list of languages, and a vibrant community of partners and developers already building them, Operators enable a flexible way to extend Kubernetes automation to arbitrarily complex applications.

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**Moe Anderson**, SaltStack  
**Gareth Greenaway**, SaltStack  
**Naked and Afraid: Surviving the Kubernetes Sprawl**

In this session Gareth and Moe will reflect on the accelerated adoption of Kubernetes and the challenges it introduces.
From management to lifecycle integration and compliance, enterprises are starting to look for solutions to these challenges. This “chat amongst friends” will uncover some of the proven best practices and techniques to consider when tackling this journey.

Gareth Greenaway

1:45 PM - 2:15 PM

Brandon Jung, GitLab

The Evolution of the Kubernetes Landscape

We will give you an overview of the players in the Kubernetes landscape, how these providers got to where they are now and what this means for the space moving forward.

Brandon Jung

Ali Naqvi, Aqua Security

Kubernetes Security 101

Kubernetes is fundamentally a complex system with lots of different potential attack vectors aimed at data theft, currency mining and other threats. This talk provides an overview of the current state of security-related features in Kubernetes, and gives directional starting points on how to secure Kubernetes components and the applications that run on top of these Kubernetes components. For the topics explored, pointers on where to further investigate will be offered.

Topics Covered:
1) Container image scanning and container security,
2) Security boundaries (pod, namespace, node, cluster)
3) Securing the control plane and Kubernetes APIs,
4) Authentication and authorization, including new tools available,
5) Runtime considerations, secrets management and more!

Ali Naqvi

2:15 PM - 2:45 PM

Oleg Chunikhin, Kublr

Terry Shea, Kublr

Reality-Check: Key Considerations for Your Kubernetes Operationalization Strategy

While Kubernetes provides the ‘right level’ of abstraction to develop and run containerized applications in multiple environments, these abstractions as well as the numerous cloud-native and legacy technologies involved make deployment a complex endeavor.

Oleg Chunikhin, CTO of Kublr, and Terry Shea, CRO, will discuss the Kubernetes ecosystem and what they see as a comprehensive, production-ready Kubernetes management platform. Topics will include the relationship between Kubernetes and infrastructure automation solutions – both cloud-based and environmentally independent, DevOps tooling/pipelines, and Kubernetes and other frameworks like Apache Spark or service meshes.

Oleg Chunikhin

Terry Shea
Frank Reno, Sumo Logic

The 4 Pillars of DevSecOps Observability

As modern development teams continue to own more of the full lifecycle of microservices, it is time to add a new pillar to the 3 pillars of Observability - Security. Learn how, with an integrated analytics platform approach, you can combine log, metrics and traces with security events to provide true, meaningful DevSecOps visibility. We will cover how it is possible to bring both a DevOps and a SecOps perspective together and enable your team to move faster, and more confidently, forward.

2:45 PM - 3:15 PM

Gianluca Arbezzano, InfluxData

Kubernetes Monitoring and Metrics with Time Series

In this presentation, Gianluca Arbezzano, SRE of InfluxData, will look into monitoring Kubernetes with InfluxDB. He will cover metrics that should be collected, when to use push and pull metric collection, and the role that Prometheus plays in any KBs monitoring environment.

Gadi Naor, Alcide

Continuous Kubernetes Cluster Hygiene in Your CI+CD Pipeline

Kubernetes adoption is growing by the day. As the pace and complexity of Kubernetes deployments are increasing, misconfiguration drifts translate into security risks. DevOps, who are now also tasked with security responsibilities, are dealing, on a daily basis, with questions like: Am I pulling software from an approved list of Image registries? Can I prevent tainted CI/CD deployments? Are my all of my clusters conform to X?

In this presentation we will talk about the unique challenges of this use case, such as how to automatically generate ‘good’ profile/baseline for each cluster, and make sure your continuous cluster hygiene level checks are automatically tuned.

3:15 PM - 3:45 PM

Gary Duan, NeuVector

Securing Kubernetes, Istio Service Meshes, and the Workloads That Run on Them

With the recent Kubernetes vulnerabilities, it has become clear that orchestration tools such as Kubernetes and Istio can be an attractive target for hackers. These systems need to be monitored and secured just as much as the application workloads which run on them.

Join Gary Duan, NeuVector co-founder and CTO, in this session for an overview of the attack surface of a container infrastructure, and how to protect against attacks with built-in security features of these tools combined with third party offerings which extend security for business critical deployments.

Karthik Gaekwad, Oracle

Why to Cloud Native

You’ve most likely heard of Kubernetes, serverless and cloud native technologies, and how everyone is using it. But why? Is it just a passing phase in tech? Or is there something more to it than just another set of technologies? Join Karthik Gaekwad in this talk to explore why you should consider the cloud native stack for your new software development projects, and how you can leverage the power of Kubernetes and serverless in your application development.
Daniela Miao, LightStep

Tracing is More Than Traces: The Insights in Trace Aggregates

The value proposition for distributed tracing is well-understood: assembling and visualizing end-to-end transactions helps to identify latency bottlenecks complex distributed Kubernetes-based environments. Yet the data from traces — when aggregated — can reveal much more, and can do so with greater precision and certainty. This talk presents the profound insights trace aggregates help unlock, including sources of resource contention, latency anomalies in the context of service infrastructure, and correlations of metrics with high-cardinality characteristics of the distributed system.

The talk demonstrates, using concrete examples, how novel applications of aggregated traces reveal new opportunities for performance improvements. However, aggregation is not possible without a standardized tracing output format, as well as a proliferation of traces via cloud-native service mesh integration.

Shailesh Mittal, Datera

Uncharted Rapids: The Challenge of Storage for Kubernetes

Within the Kubernetes ecosystem, storage remains one of the greatest challenges. Why? Because traditional storage was not built for Kubernetes, and many storage solutions are simply not up to the challenges of monolithic and microservices-based applications running in dynamic Kubernetes environment. Explore the challenges of application data management. Learn how an AI/ML storage architecture can complement Kubernetes by matching its simplicity, scale and flexibility, so that non-storage admins can quickly deploy persistent volumes in a self-service model.

Discover composable storage that provides dynamic volumes mapped to Kubernetes namespaces and orchestrated according to Kubernetes, PVCs to not only work in a Kubernetes environment, but actually optimize it.

Kamal Shah, StackRox

Security as Code – Leveraging Kubernetes to Enable Better Security for Cloud-Native Applications

The security capabilities inherent in cloud-native applications – specifically microservices, containers, and Kubernetes – give us the potential to build the most secure applications ever. That potential has been hard to realize, though. Complexity, a steep learning curve, rich capabilities, and a “default allow” approach have all contributed to the challenge.

This session will detail how you can build more secure applications from the start, reduce your attack surface, and effectively prioritize risk in your environment. Effectively leveraging the powerful capabilities of containers and Kubernetes is a key enabler to delivering Security as Code.

Dan Kohn, Cloud Native Computing Foundation

Keynote: Stitching Things Together

Why are similar technologies often developed independently at the same time? Why has Kubernetes become so popular? Dan will take a quick tour of some surprising science and technology history and suggest some answers.
**Speakers**

**Tim Hockin**  
*Software Engineer, Google Cloud*

Tim is a principal software engineer at Google, where he works on the Kubernetes and Google Container Engine (GKE). He is a co-founder of the Kubernetes project, and he is responsible for topics like networking, storage, node, multi-cluster, resource isolation, and cluster sharing. Before Kubernetes, he worked on Google’s Borg and Omega projects as well as the Linux Kernel, and before that he enjoyed playing at the boundary between hardware and software in Google’s production fleet.

**Abby Kearns**  
*Executive Director, Cloud Foundry Foundation*

With nearly twenty years in the tech world, Abby Kearns is a true veteran of the industry. Her lengthy career has spanned product marketing, product management and consulting across Fortune 500 companies and startups alike. As Executive Director of Cloud Foundry Foundation, Abby helms the ecosystem of developers, users and applications running on CloudFoundry, and works closely with the Board to drive the Foundation’s vision and grow the open source project. Prior to Cloud Foundry Foundation, Abby focused on Pivotal Cloud Foundry as part of the Product Management team at Pivotal. She spent eight years at Verizon where she led Product Management and Product Marketing teams dedicated to the early days of cloud services. In her free time, Abby enjoys indulging in food and wine, and spending time with her husband and son.

**Steve Taylor**  
*Co-founder and CTO, DeployHub*

Steve is expert in all things build and release automation for multiple platforms, from physical to Kubernetes. He is a specialist in configuration management from an application “full-stack” perspective and understands how to solve the complexities around microservice developments. Steve is the creator of DeployHub, a library management, sharing and deployment platform designed for Kubernetes, with support for monolithic environments. Steve is the main contributor to the Orteius open source project for microservice mapping and configuration control. He leads Though Leadership programs on the topics of Kubernetes and the K8S Pipeline.

**Nathan Martin**  
*President and Co-founder, Sagecore Technologies*

Nathan Martin is president and co-founder of Sagecore Technologies. Sagecore Technologies assist organization in designing and developing enterprise solutions on a Kubernetes platform. They have assisted large banks and government organizations such as Melloy Enterprises, The Albuquerque International Balloon Fiesta, and MVDNow implement software using modern architecture. Nathan was an early user of Kubernetes and has extensive experience working on hybrid and cloud native platforms.

**Dan Hubbard**  
*Chief Product Officer, Lacework*

Dan Hubbard is Chief Product Officer at Lacework, driving innovation and expanding the company’s security strategy for public and private clouds. A pioneering force in Internet security, Dan’s expertise spans from reputation and advanced classification systems to largescale security data mining, and cloud security. Prior to Lacework, Dan was CTO at OpenDNS, helped deliver the world’s largest cloud security network that led to the $600M acquisition by Cisco. Prior to OpenDNS, Dan was CTO at Websense, led R&D, launched the WebsenseSecurity Labs, and was instrumental in the company’s success from early days through successful IPO. Dan owns several patents in the areas of data classification and cloud security and is a frequent speaker at security conferences globally.
Shiri Ivtsan  
*Product Manager, WhiteSource*

Shiri is an experienced cloud solutions architect and product manager and holds a B.Sc. in Industrial Engineering and Management. Prior to joining WhiteSource as a product manager, Shiri worked for various companies where she held roles in R&D, such as solutions architect, R&D team leader and product manager.

Oscar Medina  
*Developer Advocate, CloudBees*

Oscar has over 18 years in the technology sector. His experience dates back to the Dotcom boom era, where he managed eCommerce sites based on UNIX, and written in Java. He is an advocate for DevOps practices with a focus on cloud-agnostic tools and modern frameworks. Oscar’s software development coupled with cloud infrastructure (Dev and Ops) has been instrumental in helping companies realize the benefits of cloud solutions by mentoring teams in migrating legacy monolithic applications into Microservices, building CI/CD pipelines and orchestrating Docker containers using Kubernetes on three of the leading clouds AWS, GCP, and Azure.

Kevin Crawley  
*Developer Advocate, Instana*

Kevin works for Instana, a managed service provider that specializes in observability and monitoring production systems, as a Developer Advocate. He has traveled the globe speaking on topics including DevOps, Docker, Observability, and Culture Transformation at conferences such as DockerCon, SREcon, Open Source Summit EU/US, Velocity and DevOpsDays including Tokyo and Houston. He is passionate about educating engineers about the benefits of observability, distributed tracing, and control theory. In addition to his work at Instana, Kevin is the founder and core organizer for the local Docker meetup in Nashville and was the lead organizer for DevOpsDays Nashville in 2019. He has been distinguished by his peers as a Docker Captain for his work both professionally and within the DevOps community. He has been working in software development roles almost his entire career and enjoys learning about how fellow peers are leveraging modern practices and tooling.

Eamon Bauman  
*Field Engineer, Ranchers Labs*

Eamon works with clients on setting up Rancher and Kubernetes and helping them understand and utilize the cloud native landscape. He has been with Rancher since March of 2019 but have been working with Kubernetes for a few years now. Prior to Rancher, Eamon worked for University of Wisconsin-Oshkosh as a systems administrator and data integration engineer. He lives in Wisconsin with his girlfriend Courtney, and two Shiba Inus, Sterling and Krieger. In his free time, Eamon enjoys stock car racing, reading, and discovering new binge-worthy television.

Samira Barouti  
*Cloud Software Architect, CloudOps*

Samira helps drive DevOps transformation for CloudOps from the technical perspective, focusing on containerization, CI/CD and security. She received her degrees in the fields of software engineering and information system security. Before joining CloudOps, she worked as a software developer and platform engineer specializing in Kubernetes, security and CI/CD. Her main interest is to design software systems and processes that maximize productivity of the development team.

Josh Wood  
*OpenShift Developer Advocate, Red Hat*

Josh Wood is a Developer Advocate at Red Hat. Josh has worked in a variety of roles in innovative startups throughout his career, holding diverse titles from systems admin to product director and CTO. He is passionate about constructing the future of utility computing with open source technologies like Kubernetes. When procrastinating, Josh enjoys photographing polydactyl cats and writing short autobiographies. Follow Josh at @joshxisjosh9.
Liz Rice  
*Technology Evangelist, Aqua Security*

Liz Rice is the Technology Evangelist with container security specialists Aqua Security, where she also works on container-related open source projects including kube-hunter and kube-bench. She is chair of the CNCF’s Technical Oversight Committee, and was Co-Chair of the KubeCon + CloudNativeCon 2018 events in Copenhagen, Shanghai and Seattle.

She has a wealth of software development, team, and product management experience from working on network protocols and distributed systems, and in digital technology sectors such as VOD, music, and VoIP. When not writing code, or talking about it, Liz loves riding bikes in places with better weather than her native London, and competing in virtual races on Zwift.

Moe Anderson  
*VP Engineering, SaltStack*

Moe leads the engineering team at SaltStack where he is responsible for the delivery of the Open and Enterprise platform across Cloud and datacenter environments. Moe is a passionate, enthusiastic champion of Automation and Integration. Throughout his career, he led initiatives that addressed day to day challenges and worked to bridge gaps between Dev, Sec and ops. Prior to his time at SaltStack, Moe led the IBM Solution Architecture team and was responsible for the delivery of the first generation cloud and container services as well as supporting the key open initiatives in those spaces. When you have a moment, check out his latest book on key lessons on the journey of cloud: “The Cloud Adoption Playbook” - [https://tinyurl.com/y2czzn3d](https://tinyurl.com/y2czzn3d)

Gareth Greenaway  
*Senior Software Engineer, SaltStack*

Gareth is the senior software engineer at SaltStack on the Core team, which is responsible for the open source Salt project. Prior to joining SaltStack, Gareth was a DevOps engineer at a variety companies using a variety of automation platforms and an active community contributor to the Salt project. Gareth lives in Southern California with his wife, where they are owned by several pets.

Brandon Jung  
*VP Alliances – Cloud Native, GitLab*

Before joining GitLab Brandon founded and built the Google Cloud ecosystem that includes technology companies as diverse as Red Hat, Docker, Cloudera, Pivotal and Tableau as well as companies with deep cloud expertise like Cloud Technology Partners, Agosto, C&T, Accenture and McKinsey. In his time outside of work, Brandon can be found having fun outdoors with his wife and three children in Denver.

Ali Naqvi  
*Sr. Director, Solutions Architects, Aqua Security*

Ali is currently the Sr. Director, Solutions Architects at Aqua, where he works to educate organizations on the importance of container security and enable them to improve their security through DevSecOps.

Frank Reno  
*Senior Technical Product Manager, Sumo Logic*

Frank Reno is a senior technical product manager at Sumo Logic where he is focused on all things containers, orchestration and open source. Frank works with customers and our product teams to design and build solutions for Sumo Logic customers leveraging technologies like Docker and Kubernetes. He is also an active contributor to Sumo Logic open source solutions and to the general open source community.
Oleg Chunikhin

**CTO, Kublr**

With 20 years of software architecture and development experience, Kublr CTO Oleg Chunikhin is responsible for defining Kublr's technology strategy and standards. He has championed the standardization of DevOps in all Kublr does and is committed to driving adoption of container technologies and automation. Oleg holds a Bachelor of Mathematics and a Master of Applied Mathematics and Computer Science from Novosibirsk State University, and is an AWS Certified Software Architect. A popular speaker on all things Kubernetes, Oleg's credentials include Interop ITX (Las Vegas), LISA18, DeveloperWeek, Cloud Computing Expo, and 21st Cloud Expo.

Terry Shea

**CRO, Kublr**

Terry Shea is member of the senior management team at Kublr, the developer of a leading enterprise Kubernetes management platform. He has over 20 years of experience at global software companies including Sterling Software, BMC, and IBM, where he led both, Mobile and Cloud teams. He has also participated in the turn-around and growth of several startups and has served as a consultant to software companies on product and market requirements. Currently, Terry is working with the Kublr team on ensuring that enterprise customers can leverage containers and Kubernetes across multiple environments, on-premise or in different clouds.

Gianluca Arbezzano

**Site Reliability Engineer, InfluxData**

Gianluca Arbezzano is an SRE at InfluxData. He is a big Open Source contributor for several projects including and not limited to OpenTracing, Docker, and InfluxDB. He is also a Docker Captain and a CNCF Ambassador. He is passionate about troubleshooting applications at scale, observability, and distributed systems. He is familiar with several programming languages, such as Javascript and Golang and is an active speaker and writer, sharing his experiences and knowledge on projects that he is contributing to.

Gadi Naor

**CTO & Co-Founder, Alcide**

Gadi Naor has 15 years of experience in developing and leading the development of cybersecurity products including at CheckPoint, at which he was Business Development Manager in his last role. Gadi then joined Altor Networks, a pioneer in virtualized data center security, later acquired by Juniper Networks. Prior to Alcide, Gadi co-founded Fitfully, at which he served as CTO. Gadi holds a B.A in Computer Science from the Technion Institute of Technology.

Gary Duan

**CTO & Co-Founder, NeuVector**

Gary Duan has over 15 years of experience in networking, security, cloud, and data center software. He was the architect of Fortinet's award winning DPI product and has managed development teams at vArmour, Fortinet, Cisco and Altigen. His technology expertise includes IDS/IPS, OpenStack, NSX and orchestration systems. He holds several patents in security and data center technology.

Karthik Gaekwad

**Principal Member of Technical Staff, Oracle**

Karthik Gaekwad is a veteran engineer who enjoys building software products using cloud and container technologies. He has worked in both large enterprises and startups with his career spanning National Instruments, Mentor Graphics, Signal Sciences, and StackEngine (acquired by Oracle). Karthik works at Oracle as a Principal Evangelist for Cloud Native technologies at Cloud Native Labs. Karthik graduated from the University of Arizona in 2007 with an MS in Computer Engineering and currently lives in Austin, Texas with his family.
Daniela Miao
Engineering Manager, LightStep

Daniela Miao is currently working at LightStep, where she joined 2 years ago as a software engineer. Prior to LightStep, she was an engineer on the DynamoDB team at Amazon Web Services (AWS), where she spoke at many external events including Big Data meetups and the AWS developer conference, re:Invent. Daniela is interested in various topics including NoSQL, privacy & security and distributed tracing. At LightStep, she is currently working on distributed system performance analysis, and she spends a lot of time thinking about how to provide developers with valuable performance signals.

Shailesh Mittal
Senior Software Architect, Datera

Shailesh is a senior software architect for Datera, bringing more than 13 years of experience in designing and implementing scalable server manageability solutions across the industry. Extensive tenure as a senior software engineer for Cisco, Shailesh was the principle architect of UCS Central, a data center suite to manage multiple UCS domains. Prior to that, Shailesh led the development of management software for HP-UX/Linux platforms for Hewlett Packard Enterprise. He brings his expertise in server architecture, TCP/IP, infrastructure manageability solutions, virtualization, firmware interfaces including ACPI, SMBIOS, IPMI and EFI, C++, C, Unix kernel internals and Kubernetes containers to the challenges of enterprise software defined storage.

Kamal Shah
CEO, StackRox

Kamal brings more than 20 years of experience identifying new markets, creating category-defining products that delight customers, and building large businesses to his role as CEO of StackRox. Previously, Kamal was SVP of products and marketing at Skyhigh Networks, a leading Cloud Access Security Broker (CASB) acquired by McAfee in January 2018. Before that, Kamal was part of the founding executive team at Clearwell Systems (acquired by Symantec) and General Manager at Siebel Systems (acquired by Oracle). Kamal holds a Bachelor of Science in Computer Science and a MBA from Harvard Business School.

Dan Kohn
Executive Director, Cloud Native Computing Foundation

Dan is Executive Director of the Cloud Native Computing Foundation, which sustains and integrates open source technologies like Kubernetes and Prometheus. He also helped create the Linux Foundation’s Core Infrastructure Initiative as an industry wide response to the security vulnerabilities demonstrated by Heartbleed. He previously served as CTO of several startups, including Spreemo, a healthcare marketplace, and Shopbeam, a shoppable ads company. Earlier, he was a general partner at Skymoon Ventures, a seed stage venture capital firm that created startups in semiconductors and telecom infrastructure.
Dan helped manage a number of telecoms firms controlled by Craig McCaw and started his career as founder and CEO of NetMarket, one of the first Internet companies. In 1994, he led the development of the first music store on the web, conducting the first secure commercial transaction after building the first web shopping cart. When not traveling, Dan lives in Manhattan with his wife and two sons.

Make sure to stop by the Booths in the Solution Zones and chat with Speakers and Booth Representatives!

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