October 20, 2022

Media Alert: Intel at KubeCon + CloudNativeCon North America 2022

Learn more about Intel's contributions to open source projects that advance sustainability and cloud native computing.

SANTA CLARA, Calif.--(BUSINESS WIRE)-- Join Intel at KubeCon + CloudNativeCon North America 2022, virtually or in person, Oct. 24-28 in Detroit. The hybrid conference, hosted by the Cloud Native Computing Foundation (CNCF), gathers top technologists from leading open source and cloud native communities to further the education and advancement of cloud native computing.

Experts from Intel will be on hand to talk about the company's contributions to open source projects and forward-looking initiatives that have the potential to shape, empower and support the future of the cloud native ecosystem.

KEYNOTE:

From Silicon to Serverless: A Full-Stack Journey
When: 9:45-9:50 a.m. EDT, Thursday, Oct. 27
Where: Live | Halls CD
Presenter: Cathy Zhang, senior principal engineer, Software and Advanced Technology Group, Intel
Abstract: The cloud native journey starts with silicon and ends with delivered applications. In this talk, Cathy Zhang will walk through everything from cores to cloud.

SESSIONS:

Overview of Challenges and Solutions for Orchestrating Applications to Multiple Data Centers and Edge Clusters
When: 4:30-5:05 p.m. EDT, Wednesday, Oct. 26
Where: Virtual | Viewable in Platform
Presenters: Ritu Sood, cloud software engineer, Software and Advanced Technology Group, Intel; Cathy Zhang, senior principal engineer, Software and Advanced Technology Group, Intel
Abstract: To reduce the operational cost of deploying and managing complex applications, automation is a must. The goal is to achieve zero-touch deployments. This talk will examine the landscape of available solutions, such as Kubedge, ArgoCD, Karmada, EMCO, etc., and provide an in-depth analysis of each.

Discover the Business Value of Edge Computing
When: 5:35-6 p.m. EDT, Wednesday, Oct. 26
Where: Live | 251 ABC
Presenters: Muneyb Minhazuddin, CMO, Network and Edge Group, Intel; Larry Carvalho,

RobustCloud LLC; Stu Miniman, Red Hat; Marilyn Basanta, VMware
Abstract: This panel will discuss how cloud native tools provide business benefits to applying edge technology for physical process efficiencies. Specifically, Muneyb Minhazuddin will talk about how a manufacturer modernizes applications on the factory floor as they converge IT and OT to create a dynamic and agile production line by software defining constrained devices.

Energizing the Manufacturing Industry with Kubernetes and Cloud Native
When: 11:55 a.m.-12:30 p.m. EDT, Thursday, Oct. 27
Where: Virtual | Viewable in Platform
Presenter: Marcel Wagner, principal engineer, Network and Edge Group, Intel
Abstract: In his talk, Marcel Wagner will present the Cloud Native Digital Twin architecture of IndustryFusion Foundation (IFF). He will showcase a special Kubernetes operator to monitor and deploy the factory processes as Apache Flink jobs, defined with Streaming SQL. He will also describe his experience running Kubernetes and cloud native in a manufacturing environment, especially the challenges he overcame with the machine builders and factory owners to make them comfortable with this approach.

Class Resources: Kubernetes' Fastest Way of Shushing Noisy Neighbors
When: 4:30-5:05 p.m. EDT, Thursday, Oct. 27
Where: Live | 140 ABC
Presenters: Markus Lehtonen, cloud orchestration software engineer, Software and Advanced Technology Group, Intel; Peter Hunt, Red Hat
Abstract: In this joint talk, Markus Lehtonen and Peter Hunt present the concept of class resources, the prior work done in the container runtimes, as well as the future of first-class integration. People who join will learn that class resources is the best way to let their applications run in peace.

Improving User Experience for Device Consumption in Kubernetes
Time: 5:25-6 p.m. EDT, Thursday, Oct. 27
Where: Live | 140 ABC
Presenters: Alexander Kanevskiy, principal engineer, Cloud Orchestration Software, Software and Advanced Technology Group, Intel; Patrick Ohly, system software engineer, Software and Advanced Technology Group, Intel; Kate Goldenring, Microsoft
Abstract: This talk will cover several stories of how different types of devices can be used in Kubernetes clusters. Presenters will discuss projects and proposals in the Kubernetes ecosystem that are working toward the goal of connecting devices and workloads. They will also discuss how to get involved in this evolution to let workloads be utterly materialistic.

Node Resource Interface: Extending Containers and CRI-O with Common Plug-ins
When: 11-11:35 a.m. EDT, Friday, Oct. 28
Where: Live | 140 ABC
Presenters: Krisztian Litkey, cloud orchestration software engineer, Software and Advanced Technology Group, Intel; Mike Brown, IBM
Abstract: This talk will take a closer look at how node resource interface (NRI) and plug-ins fit into runtimes, as well as cover some common and novel use cases and plug-ins for OCI hook injection and custom resource assignment.

Kubernetes Networking Infrastructure Offload
When: 4-4:35 p.m. EDT, Friday, Oct. 28

Where: Live | 330 AB | Huntington Place
Presenters: Dan Daly, software architect, Network and Edge Group, Intel; Nupur Jain, software cloud architect, Network and Edge Group, Intel; Nabil Bitar, Bloomberg; Moshe Levi, Nvidia; Valas Valancius, Google
Abstract: Networking is central to Kubernetes, as it enables secure and deterministic scale out. This panel will discuss approaches that share a common methodology based on existing Kubernetes APIs to improve performance, free up compute cycles and preserve compatibility with existing cloud native applications.

DEMOS:

Intel Booth (D2) Demos

- Protect End-to-End Data Pipelines with BigDL PPML
- Simplify Deployments Using Intent Driven Orchestration
- Boost Performance for Stateful Apps Deployed in K8s with Lightbits
- Deploy Network Sockets with Efficiency using Cloud Native Data Plane
- Autonomous, Continuous Workload Optimizations by Granulate

Partner Demos

- **Anaconda:** Helping to Secure the Journey to Production – Intel® Software Guard Extensions (SGX) plus the world's most popular Python platform
- **SUSE:** Showcasing FDO and oneAPI components as part of rock/paper/scissors microservices

INTEL-HOSTED ACTIVITIES:

Intel Capital Event: Secrets to Scaling in a Cloud Native World
When: 4-7 p.m. EDT, Tuesday, Oct. 25
Where: Detroit Marriott at the Renaissance Center | Ontario West Ballroom
Host: Intel Capital, Tetrate, MinIO and Upbound
Registration: Interested parties can register here.

Welcome Reception + Booth Crawl
When: 6-8 p.m. EDT, Wednesday, Oct. 26
Where: Virtual and Live | Halls AB
Description: Join onsite for drinks and appetizers, games and conversations with old and new friends in the Solutions Showcase. Those participating online won't want to miss the expert office hours and interactive sessions presented by sponsors. Explore nearly 250+ exhibit booths to learn more about the latest technologies, browse special offers and job posts, and much more.

Karaoke & Pizza – Hosted by Intel
When: 8-10:30 p.m. EDT, Wednesday, Oct. 26
Where: Sid Gold's Request Room | 1511 Broadway Street
Registration: Interested parties can register here.

RESOURCES:

- Open Ecosystem Commitment

- Open Source Contributions
- Intel at KubeCon + CloudNativeCon North America 2022

For more information about Intel's presence at KubeCon, visit the Intel at KubeCon website on Intel.com or stop by Booth D2 during the show (virtual link).

About Intel

Intel (Nasdaq: INTC) is an industry leader, creating world-changing technology that enables global progress and enriches lives. Inspired by Moore's Law, we continuously work to advance the design and manufacturing of semiconductors to help address our customers' greatest challenges. By embedding intelligence in the cloud, network, edge and every kind of computing device, we unleash the potential of data to transform business and society for the better. To learn more about Intel's innovations, go to newsroom.intel.com and intel.com.

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