

susecondigital ²⁰

Machine Learning Using SUSE CaaS Platform

DEV-1236

Marek Counts

Covered Topics

1. Machine Learning (ML) and common problems
2. What problems Kubernetes solves for ML
3. Pulling it all together with SUSE CaaS Platform



Machine Learning Struggles

- Reproducible building/deploying
- Maintaining the pipelines
- Scaling
- Collaboration

How Can Kubernetes With SUSE CaaS Platform help?



Kubernetes

Helps with:

- Scaling
- Maintaining and building the models

If Kubernetes Is So Great, Why Do We Need SUSE CaaS Platform?

Kubernetes has a lot of moving parts, is hard to keep up to date with bug and security patches, and has more best practices than most can remember.

SUSE CaaS Platform brings an easy install, provides all the latest packages, and makes it simple to keep your cluster securely up to date, following all the best security practices.

SUSE CaaS Platform

- Quick, easy, and secure installation of Kubernetes on top of one of the fastest and most secure Linux distributions.
- Easy updates for security and new features.
- Responsive and knowledgeable support from a diverse world-class team



SUSE CaaS Platform



ML

What Are We Doing To Help Support ML?

Getting involved in projects like Kubeflow to help the entire community as well as SUSE.

Helping with support for latest versions of Kubernetes and expanding the supported ML frameworks.

SUSE works with the community to update projects like Kubeflow and cri-o all the way down to the hardware, so we can ensure that it all works on the latest possible CaaS Platform Kubernetes cluster.

Who's Up For A Demo?

<https://github.com/Klaven/kubeflow-demo>

General Disclaimer

This document is not to be construed as a promise by any participating company to develop, deliver, or market a product. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. SUSE makes no representations or warranties with respect to the contents of this document, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. The development, release, and timing of features or functionality described for SUSE products remains at the sole discretion of SUSE. Further, SUSE reserves the right to revise this document and to make changes to its content, at any time, without obligation to notify any person or entity of such revisions or changes. All SUSE marks referenced in this presentation are trademarks or registered trademarks of SUSE, LLC, Inc. in the United States and other countries. All third-party trademarks are the property of their respective owners.

The background is a solid green color with a white grid pattern that forms wavy, organic shapes. The grid lines are thin and create a mesh-like texture. The overall aesthetic is clean and modern.

SUSEcon digital '20