



What's New with SUSE CaaS Platform 3?

SUSE CaaS Platform 3 continues to deliver rapid advancements, with expanded options for cluster optimization, support for more efficient and secure container image management, and an updated release of Kubernetes that simplifies deployment and management of long-running workloads.

With SUSE CaaS Platform 3 you can:



Optimize your cluster configuration with expanded data center integration and cluster re-configuration options.

Setting up your Kubernetes environment is easier than ever with improved integration of private (OpenStack) and public (Amazon Web Services, Microsoft Azure, and Google Cloud Platform) cloud storage and automatic deployment of the Kubernetes software load balancer.

A new SUSE toolchain module enables you to tune the MicroOS container operating system to support your custom hardware configuration needs. Now you can, for example, install additional packages required to run your own monitoring agent or other custom software.

You can also easily transform your start-up cluster into a highly available environment. With new cluster reconfiguration capabilities, you can switch from a single-master to a multi-master environment, or vice-versa, to accommodate your changing needs.

Manage container images more efficiently and securely with a local container registry.

Download a container image from an external registry once, and then save a copy in your own local registry for sharing among all nodes in your cluster. By connecting to an internal proxy rather than an external registry, and by downloading from a local cache rather than a remote server, you'll improve security and increase performance every time a cluster node pulls an image from the local registry.

For even greater security, disconnect from external registries altogether and use only trusted images that you've loaded into your local registry.

Try out the new, lightweight CRI-O container runtime, designed specifically for Kubernetes, and introduced in CaaSP 3 as a tech preview feature. Stable and secure, Crio-I is also smaller and architecturally simpler than traditional container runtimes.



kubernetes

Simplify deployment and management of long running workloads through the Kubernetes Apps Workloads API.

Promoted to 'stable' in upstream Kubernetes 1.9 code, the Apps Workloads API is now supported by SUSE. This API generally facilitates orchestration (self-healing, scaling, updates, termination) of common types of workloads through access to the following controllers:

- DaemonSet, for ensuring that daemons are consistently configured and deployed across some or all nodes in a cluster
- Deployment, for orchestrating updates of stateless apps
- ReplicaSet, for managing simple, stateless apps
- StatefulSet, for managing stateful apps