# SUSE OpenStack Cloud 8 Delivers Improved Interoperability, Scalability and Flexibility to Better Enable IT Transformation

Powered by OpenStack Pike, Includes full NSX-V support and CaaS Capabilities

Frequently Asked Questions

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## What is SUSE announcing?

On Thursday, May 3rd, 2018, SUSE is announcing SUSE OpenStack Cloud 8. SUSE OpenStack Cloud 8 is our latest enterprise-ready OpenStack platform for building Infrastructure-as-a-Service private clouds.

Powered by OpenStack Pike, SUSE OpenStack Cloud 8 makes it easier for enterprises to get started with Kubernetes using Container-as-a-Service capabilities offering prebuilt container images and non-disruptive upgrade capabilities to avoid downtime and service interruption. These enhancements offer customers the ability to accelerate innovation and improve agility to deliver value faster and overcome the challenges of today's business environment.

## When will SUSE OpenStack Cloud 8 be available?

SUSE OpenStack Cloud 8 is being announced on 3rd May, 2018 and is expected to be generally available at the same time.

## What's new in SUSE OpenStack Cloud 8?

Here are some of the new capabilities that are included in this release:

- Built on OpenStack Pike code release, giving access to the latest cloud technologies in areas where innovation is occurring at a rapid pace
- Bare metal provisioning allows quick and easy provisioning of bare metal servers to deploy workloads that require a higher or guaranteed performance level directly onto physical machines, through full support for OpenStack Ironic - ideal for high performance compute (HPC), real-time systems, big data and machine learning applications
- Expanded software-defined networking enables businesses to seamlessly connect existing NSX-V SDNs to a SUSE OpenStack Cloud environment
- Full support for OpenStack Freezer gives an automated data backup and restore process adding distributed backup and restore DRaaS capabilities
- Extended 3-year lifecycle support meets enterprise customers' needs for longer maintenance and rollout timeframes. Note that the first two years are features and fixes, while the last year is security fixes only
- A choice of lifecycle tool options – either Crowbar (traditional SUSE OpenStack Cloud deployment tool) or Cloud Lifecycle Manager (CLM, based on Ardana). Gives customers flexible options for deploying and maintaining their OpenStack environment
- Prebuilt, ready-to-run container images with deployment automation through SUSE Containers as a Service Platform (CaaSP), or bring your own Kubernetes images using OpenStack Magnum

## How does Cloud Lifecycle Manager (CLM) differ to Crowbar?

Cloud Lifecycle Manager (CLM) changes the way that customers plan and deploy their SUSE OpenStack Cloud environments. Based on Ansible, CLM is designed for flexibility and to support template-oriented deployments of larger clouds that can scale out without downtime. It changes the way that customers approach a deployment of SUSE OpenStack Cloud, requiring more upfront decisions and planning, resulting in easily repeatable deployments. Customers decide on the size, scale and hypervisor, then it's validated and deployed using Ansible playbooks. Once deployed, this makes it easier for customers to update and maintain their environments in a consistent, repeatable and robust fashion. This also has the added benefit that Ansible playbooks enforce best practices workflows.

## How has the deployment of Kubernetes on SUSE OpenStack Cloud changed?

SUSE OpenStack Cloud 8 gives customers two options for Kubernetes deployment:

1) OpenStack Magnum – SUSE do not provide an image for Magnum, so customers would need to use a community image, which would not be supported by SUSE, and would need to be manually updated by the customer.

2) SUSE CaaS Platform – we provide ready-to-run images and Heat automation to make this easier to deploy on SUSE OpenStack Cloud. This gives customers the benefit of having SUSE manage the lifecycle of Kubernetes with SUSE updates, release updates and full support.

The second option is our recommended route to Kubernetes with SUSE OpenStack Cloud as this relieves a lot of the stress normally associated with running and maintaining Kubernetes, allowing them to focus on their business objectives instead of keeping the infrastructure updated. This does require that customers purchase a subscription to SUSE CaaS Platform in addition to SUSE OpenStack Cloud.

## What customer references do you have for SUSE OpenStack Cloud?

We have a number of customer success stories that we are able to share, which can be found on the SUSE website at https://www.suse.com/products/suse-openstack-cloud/ including FIS-ASP, Gregor Mendel Institute of Molecular Plant Biology, Datalounges, Pi Datacenters and more.

## Is support for the 64-bit Arm architecture available with SUSE OpenStack Cloud 8?

As an open source technology leader, SUSE is continually evaluating new technologies and working with partners and customers to deliver the solutions they need when these are needed for meet their business needs. The 64-bit Arm architecture is one of the technologies that we continue to monitor closely.

Whilst we are not announcing support for 64-bit Arm with SUSE OpenStack Cloud 8 at this time, we do intend to release at technical preview for Arm compute nodes later in 2018.