Document title	CloudStack Container Service Release Notes
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Version	1.0.0

1   What's New

Since this release is the very first, everything is new. The following is a summary of features provided by the CloudStack Container Service (CCS) 1.0.0 release:

- Orchestrates provisioning of Kubernetes 1.2.4 container clusters using KVM, VMware, or XenServer hosted virtual machines using the CloudStack Admin Console or API

- Embeds the [Kubernetes Dashboard](#) in the CloudStack Admin Console to deploy containerized applications

- Integrates the Kubernetes cluster lifecycle with the CloudStack event log

- Injects CloudStack managed SSH keys into Kubernetes clusters

- Monitor Kubernetes cluster health

- Connect Kubernetes clusters to CloudStack isolated networks with integrated DNS (using [SkyDNS](#))

- Use private docker repositories as a source for container images

- Support for CoreOS guests

We will continue deepen the integration between CloudStack and Kubernetes in future CCS releases.

2   Known Issues/Limitations

The following are the known issues in the CCS 1.0.0 release:

- Recovery of the Kubernetes cluster master is not supported. If a cluster master node fails, the cluster must be rebuilt.

- Recovery of a Kubernetes node VM is not supported. If a VM underlying a Kubernetes node fails, the cluster must be rebuilt to bring the cluster back to full capacity.

- Kubernetes high-availbility master node deployment is not supported.

- Docker is the only supported container manager

- The etcd store for each Kubernetes cluster is deployed on the cluster master and not configured for high-availability or replication

- An existing CloudStack defect causes numerous warnings to be logged about the an unknown parameter, listAll, for the listContainerCluster API. This warning is spurious and is not an indication that management server is malfunctioning.

- Safari on Mac OS X treats the embedded Kubernetes Dashboard as a phishing site. Therefore, when accessing it will cause Safari to display a phishing warning.

- UI Issue: In Container Cluster Details view, if the user issues Destroy Cluster command and stays on the same page until the command is finished, they might encounter an error message "Unable to find account by id: …". The container cluster will be deleted as expected and a page refresh will display the correct information.