



OPCITO TECHNOLOGIES

Automated OpenShift Cluster Deployment as Micro Load Balancer

About The Customer

The customer is a leading software provider for delivering enterprise applications in data centers and clouds. The customer's flagship product delivers cloud-like agility for application services beyond load balancing, including application analytics, predictive auto-scaling, and data center or public cloud security.

Business Challenge

Using OpenShift as a cloud requires creating and configuring the OpenShift cluster. It was a manual process, and setting it up each time was time-consuming and repetitive. Also, once the cluster is configured, it will be added as a cloud against which the customer provides a list of services like load balancing, service discovery, health check, and analytics. But to bring up the OpenShift cluster with a single click was a big challenge.

How Opcito Helped

After understanding the problem and analyzing the existing system, the Opcito team came up with a solution that involved creating an OpenShift cluster and configuring it to add it as a cloud. The implementation involved the following steps:

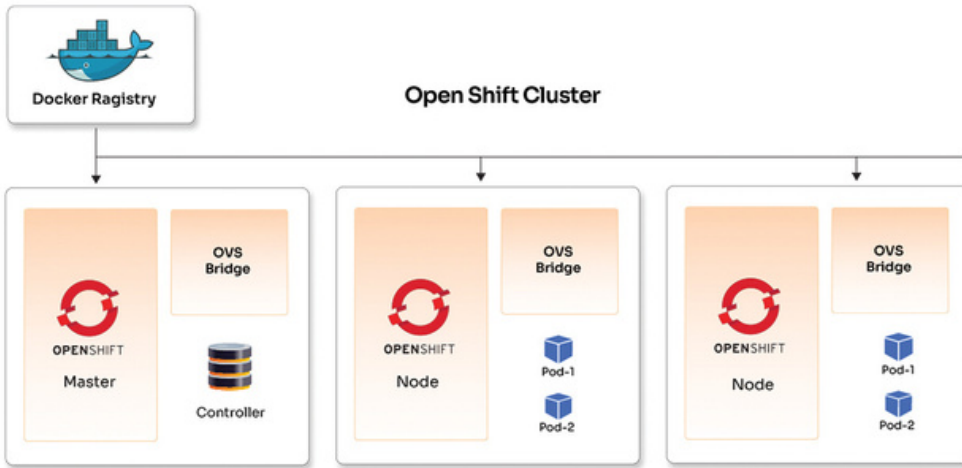
- Developing Ansible playbook to support installation, upgrade, and manage OpenShift clusters on VMware infrastructure
- Configuring OpenShift as a cloud in the ADC controller, which internally auto-discovers the cluster configuration and deploys agents on it
- Creating application deployments and services in the ADC controller containing information like the number of replicas, docker images to use, and other parameters and then creating services with information like ports and other metadata information.



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Technologies, Tools, and Platforms used

DOCKER

OPENSIFT

VMWARE

Benefits

FASTER DEPLOYMENT AND CONFIGURATION

Reduced time required for bringing up the cluster, configuring, and adding it as a cloud by 40%

SEAMLESS ENVIRONMENT SETUP

Got the environment running with zero manual steps

About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.