

Red Hat OpenShift

Kubernetes based system to manage

Containerized applications. Works with Mas9

to help scalability, security, automation

Containers lightweight portable units that package an application and all of its dependencies. Good to ensure consistency.

Makes it much easier to deploy, manage, and scale applications.

Kubernetes open source platform designed to automate the deployment, scaling, and management of containerized applications. ie...

- Service Discovery : load balancing

Kubernetes can expose containers using DNS or IP addresses and distribute network traffic.

- Storage Orchestration

Allows automatic mounting of storage systems

- Automated Rollouts : Rollbacks

Kubernetes can manage the desired state of containers. Automating updates : rollouts

- Self Healing It can restart failed containers, replace them, and manage health checks.

Secret : Configuration Management

Kubernetes securely stored : manages sensitive information like passwords and tokens.

- Containers share the host OS kernel

this means they are more efficient than running VMS which all need separate OS instances.

- Containers can be easily moved between dev / TST / PRD environments.