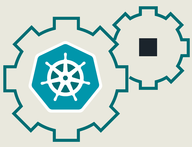
Kubernetes: DIY or DI-Don't?

The steep and continuous learning curve of a K8s ecosystem can quickly erode the productivity gains of containerization.



The quest for Kubernetes efficiencies

Time is of the essence

IT teams are shifting away from VMs as a means to abstract and efficiently utilize cloud resources. They need faster resource provisioning, and VMs are burdened by a software stack that includes a hypervisor and a guest OS in each VM.

Enter lightweight, flexible containers

Containers don't use a hypervisor and the OS is shared, so resource provisioning is much faster than a VM. Plus, the same lightweight image can be used across cloud environments, helping dev teams move faster.

Containers everywhere- Kubernetes to the rescue!

Containers facilitate loosely coupled microservice architectures, and K8s automates deployment and management of containerized applications.

If only you could 'deploy and forget' K8s

Despite automation, maintaining a K8s ecosystem requires constant monitoring, tuning, and updating. The result is an unnecessary distraction that erodes the productivity gains of containerization.

This is getting complicated

Cloud Kubernetes services like AWS EKS, Azure AKS, and Google GKE reduce the maintenance burden significantly by managing the control plane nodes. However, you still handle ongoing management and configuration of K8s worker nodes as well as pod & network security.

Kubernetes is an enticing target

Speaking of security, the complex Kubernetes ecosystem opens many potential vulnerabilities that hackers have learned to exploit. Cluster misconfiguration, stolen credentials, backdoors, unencrypted secrets, and tricking automated processes into deploying malicious code, to name a few.

Scaling K8s across applications is just rinse/repeat, right?

Not exactly. CloudOps, DevOps, and SRE teams must hammer out telemetry needs, tooling, and deployment strategies. Then, ahem, document them to ensure consistent practices across enterprise apps.

Time to get out of the Kubernetes admin business!

UST's Managed Kubernetes service lets your teams deploy containerized apps consistently and securely, without needing to become K8s experts. Our DevSecOps practices ensure security is integrated into every element of the CI/CD pipeline, so your development teams can innovate freely while maintaining your organization's security posture.

UST customers trust us to manage thousands of containers and process > 1 billion requests every day.

UST Managed Kubernetes services include:

Standardized deployments

Policy-driven **security and compliance**

Cluster lifecycle management

Infrastructure telemetry

Worldwide service and support

Kubernetes

Deployment strategies

Developer self-service provisioning

Operators to enhance **SRE practices**

Monitoring and **Observability**

Accelerators such as starter kits, **libraries, templates, and sidecars**

GitOps for config and infrastructure **version control**

Contact us

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