The Next Generation of the D2iQ Kubernetes Platform: DKP 2.0

Overview
As the leading independent platform for Kubernetes in production, the D2iQ Kubernetes Platform (DKP) provides a holistic approach and a complete set of enterprise-grade technologies, services, training, and support to build and run applications in production at scale. Built around the open-source Cluster API, the new version of DKP becomes the single, centralized point of control for an organization's application infrastructure, empowering organizations to more easily deploy, manage, and scale Kubernetes workloads in Day 2 production environments.

Why Use DKP 2.0?
Avoid Vendor Lock-In and Reduce TCO. DKP is built on pure upstream open-source Kubernetes providing our customers the freedom to leverage ongoing open-source innovation, immune to the lock-in of proprietary solutions with a lower TCO.

Simplify Ongoing Operations. DKP embraces a declarative approach to Kubernetes, including the adoption of CAPI and FluxCD, that automates many of the manual operational tasks for continuous delivery and lifecycle management. This dramatically reduces operational costs and frees up IT resources to focus on more strategic projects.

Flexible and Scalable Deployments. DKP radically simplifies the deployment of applications across distributed, heterogeneous infrastructures—on-prem, cloud, air-gapped, and edge—in both multi-cluster and multi-tenant environments, which means tremendous flexibility to deliver success where you need it, now and in the future.

Leverage Cloud-Native Expertise. DKP provides consulting services, training, and end-to-end support for both Kubernetes and your entire cloud-native stack of services and applications in your deployment. By leveraging our expertise and operational guidance, you can avoid common pitfalls and ensure faster time-to-market.

Enterprise-Grade Technology
DKP is uniquely designed to provide a fully interoperable and Cloud Native Computing Foundation (CNCF) conformant Kubernetes experience, so you can leverage the best innovation that the industry has to offer, while ensuring the security, resilience, and TCO that your organization demands.

The technology footprint of DKP is composed of the following:

D2IQ Konvoy 2.0: A comprehensive, enterprise-grade Kubernetes distribution built on pure open-source with the ancillary platform services needed for Day 2 production that are tightly integrated, secured, and tested at scale.

What's New in DKP 2.0
Cluster API (CAPI)
DKP 2.0 is architected around the new CNCF technology, CAPI. CAPI simplifies declarative infrastructure management using GitOps, automating many of the formerly manual processes required to keep systems running and scaling.

FluxCD
The adoption of FluxCD into DKP 2.0 enables GitOps power of cloud-native GitOps for both application and infrastructure lifecycle management, supporting canary deployments and A/B roll outs. Rapidly build, test, and deploy applications at scale, without requiring configuration changes.

Multi-tenant and Workspace-level Logging
DKP 2.0 adds the ability to manage logs by tenant or workspace, for more granular control and simpler troubleshooting of problems.

Multi-cluster Platform Application Management
All platform applications for Day 2 readiness, including, logging, monitoring, networking, and more, are now deployed and managed through Kommander. Multi-cluster support means these critical Day 2 applications can be deployed in any Kubernetes managed or self-attached clusters on prem, in the cloud, and air-gapped scenarios.

Immutable OS Support
Enhanced security and stability provided by an immutable OS, such as Flatcar Linux.
D2iQ Kommander 2.0: A federated management plane that delivers centralized observability, control, and governance and federated management of disparate Kubernetes clusters from a single, central point of control, while ensuring lifecycle management for both infrastructure (through CAPI) and applications (through FluxCD), unified policy, and better operational insights.

D2iQ Kaptain: An enterprise-ready distribution of open-source Kubeflow that reduces the time needed to go from prototype to production from months to minutes. It bundles together best-of-breed open-source technologies to build, deploy, and manage Machine Learning (ML) models across their entire lifecycle.

Support Services
D2iQ provides a wide range of Kubernetes 24/7 support offerings to help you quickly resolve issues for core Kubernetes and its supporting platform services. Our team delivers a unique mixed workload testing methodology and process that ensures your stack of technologies are initially and continuously tested to ensure interoperability of key services.

Professional Services
D2iQ’s professional services team provides expert guidance from Day 0 design to Day 2 operations—and everything in between.

- Advise: Our Advisory Services answer your most pressing questions and guide your wide-ranging cloud-native endeavors to achieve enterprise-grade outcomes.

- Activate: Our Activation Services are tailored to ensure that Kubernetes is customized to meet your cloud-native application needs for scalability, efficiency, and speed.

- Adopt: Our Adoption Services are designed to help with Day 2 operations enablement and continuous support and improvement in the lifecycle of your applications.

Training Services
D2iQ is a Certified Training Partner (KTP) and delivers instructor-led courses that can equip you with the skills and knowledge to successfully plan, build, and operate on Day 2 in production, both for Kubernetes and its supporting platform services.

To learn more about how D2iQ can be your partner in the cloud native journey, go to [www.D2iQ.com](http://www.D2iQ.com).