Simple Multicloud Kubernetes Management?
Yes. With Hitachi Kubernetes Service
Forecast

There is no doubt that a more agile, automated and efficient infrastructure is key to realizing the cost savings and productivity gains businesses need to succeed in today’s highly competitive market.

According to experts, 88% of enterprises are currently using cloud in some form or another.¹ And 86% of IT organizations are prioritizing containers for more applications.² Kubernetes has become the acknowledged defacto standard for container creation, orchestration and management. But if you have a complex private, hybrid or multicloud Kubernetes environment, how do you choose the right service for your business? How do you pull together all the disparate tasks, actions and business processes to make your multicloud Kubernetes environment successful? In this e-book, we talk you through the benefits and challenges associated with managing a hybrid IT or multicloud Kubernetes environment and demonstrate how to implement it for maximum business benefits.

² Forrester Opportunity Snapshot: A Custom Study Commissioned By Capital One, June 2020
Contents

What are Containers and Hybrid IT?  4
Fair to Partly Cloudy                  5
The Challenges                       6
Introducing Hitachi Kubernetes Service 7
Blue Skies on the Horizon            8
The Benefits are Clear               9
Four Steps to Success                10
Next Steps                           11
What are Containers and Hybrid IT?

In the push to increase business agility and competitiveness, more companies are turning to containers to build their applications with. Containers are a type of technology that makes it easier to host applications inside portable environments. They package everything needed to develop and run an application, including the code, the runtimes, and all required system tools. A single container might be used to run anything from a small microservice or software process to a larger application. This saves the developer time and the company money.

According to Gartner, by 2022 more than 75% of global organizations will be running containerized applications in production. Why? In addition to seeking agility and cost savings, 59% of companies report that they use containers to win, serve and retain customers.

Where are they using containers? The short answer is everywhere! A recent InfoWorld article stated that 87% of enterprises have a hybrid cloud strategy. So what is hybrid IT? It is the combination of your data center, private cloud and one or more public clouds. Why hybrid IT? Hybrid IT adds the ultimate flexibility to your data and application strategy by allowing you to keep your data where you want, when you want it – whether that is on one or more public clouds, or on your private cloud – within your data center. It’s all about giving you ultimate control.

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3 Gartner press release, June 25, 2020
4 Forrester Opportunity Snapshot: A Custom Study, June 2020
5 InfoWorld, June 8, 2020
Fair to Partly Cloudy

So we know that people are using containers. What does that mean? Datadog surveyed more than 10,000 customers running 1.5 billion containers. They found that a full half of those organizations running containers use Kubernetes, whether in self-managed clusters, or through a cloud provider service.⁶

Additionally, as container environments grow in size and complexity, nearly 90% are using orchestration for automation and management.⁷ This means that companies are looking for assistance in managing their container, and realistically speaking, their Kubernetes environments. No matter where your Kubernetes development is – on premise, or in one or more public clouds – you don’t want, nor need to relinquish control or compromise security.

But the process of managing your complex Kubernetes environment brings inevitable challenges.

⁶ Datadog, 11 Facts about Real-World Container Use, November 2020
⁷ Datadog, 11 Facts about Real-World Container Use, November 2020

“We have many isolated Kubernetes deployments in various clouds – it’s complex and hard to manage”

“We need to have applications in K8 clusters in different locations and in different clouds”

“I am continually challenged to manage upgrades when I’m not sure I even know about all of my Kubernetes clusters!”

“It’s exhausting to learn and keep up to date with the multiple K8 tools from different providers to manage the different environments”
The Challenges

The perception is that Kubernetes is cheap and easy. The reality is somewhat different. There is a wide range of highly complex tasks and activities that must take place for successful Kubernetes implementations. These include:

- Self-service
- Business process integration
- Service catalog
- Data location compliance
- Availability and protection
- Infrastructure performance
- Security
- Resource planning
- Automatic upgrades and system management
- Change control for data services integration
- Monitoring, alerting and reporting

And the list goes on.

Can you do this yourself? Of course you can, with the right tools, skill sets, time and budget. **But what if there is a better answer?**

* Deloitte Cloud Complexity Management Survey results, 2019
Introducing Hitachi Kubernetes Service

Bringing simplicity to managing your complex Kubernetes environment. Hitachi Kubernetes Service delivers enterprise-grade single-pane Kubernetes cluster management of application and data containers across clouds and on-premises accompanied with world-class training and Hitachi global support.

Hitachi Kubernetes Service is truly cloud platform and Kubernetes engine agnostic. This open API-based hybrid IT and multicloud solution enables you to modernize your existing applications and build new ones. All while delivering the most reliable service for the deployment, management, and centralized monitoring of enterprise grade Kubernetes clusters across all major cloud providers and on-premise.
Blue Skies on the Horizon

Hitachi Kubernetes Service is Simple, Customizable and Comprehensive.

The intuitive dashboard, powerful APIs and service catalog with its broad portfolio of services lets operators, developers and power-users easily gain the flexibility to operate across environments with consistency and centralized command and control. You can now centrally manage all of your Kubernetes clusters, whether powered by the Hitachi Kubernetes Engine, or those created by other Kubernetes engines.

Platform agnostic, Hitachi Kubernetes Service contains all the industry leading features and applications enterprises need. It also comes with a full suite of DevOps and Kubernetes specific readiness training and certification courses, as well as Hitachi’s award-winning global support.
The Benefits are Clear

Hitachi solves the multicloud Kubernetes management challenge for our customers.

Freedom
- Eliminate vendor lock-in with true agnostic support for Kubernetes across all platforms
- Manage all Kubernetes instances, no matter what service created them

Choice
- Take advantage of our service catalog, fully populated with all top applications
- Extend and modify the service catalog to meet your specific requirements

Comprehensive
- Complete training curriculum for your staff from DevOps Essentials to Certification level courses
- Supported by the award-winning global Hitachi Customer Support organization
Four Steps to Success

Our tried-and-tested four-step path eases you through the Hitachi Kubernetes Service adoption process: Start realizing the business benefits of a simplified, comprehensive, secure service for the most important Kubernetes environment - yours.

1. **Analyze** – Work with Hitachi to fully understand your goals and identify the optimal solutions to achieve your business and development outcomes.

2. **Standardize** – Standardizing on pre-integrated service catalog frees up your resources, establishes best practices and consistent processes, reduces risk, improves security and governance, lowers costs and enables fast, risk-free implementation.

3. **Automate** – Automation and end-user self-service are fully managed, as a service, with pre-integrated service catalogs. The resulting improved service levels accelerate development and improve your competitive advantage.

4. **Transform** – This step completes your transformation to truly simple hybrid IT and multicloud Kubernetes management. Enabling users to select the tools, services, platforms and applications they need improves compliance and security by ensuring all are on the latest approved versions, while providing greater visibility and accountability. Now resource allocation can be aligned to the activities with the greatest business value, adding more dollars to your bottom line.

The key to a successful, nondisruptive transformation is to build a simple to use, cost-effective, comprehensive foundation.
Next Steps

Simplify the management of your complex Kubernetes ecosystem. Learn more about how Hitachi Kubernetes Service provides a secure robust, agile, automated and efficient Kubernetes platform, letting you realize cost savings, increased productivity and compliance.

VISIT our solution webpage. Visit Now
READ the Hitachi Kubernetes Service Solution Profile. Read Now
VIEW the Simplify Your Complex Kubernetes Infographic. View Now
WATCH the Hitachi Kubernetes Service video. Watch Now

We Are Hitachi Vantara
We guide our customers from what’s now to what’s next by solving their digital challenges. Working alongside each customer, we apply our unmatched industrial and digital capabilities to their data and applications to benefit both business and society.