



| 2019 IBM Cloud 用戶實作研習營 |

| 2019 IBM Cloud

用戶實作研習營 |

IBM Cloud Kubernetes Service (IKS)

聰明客製化叢集管理

講義與實作文件下載處



Developer Productivity, Choice, Control, & Consistency

Speed



Portability



Performance &
Control



Cloud Functions

"Serverless" / Event Driven Apps



Cloud Foundry

Open PaaS Environment



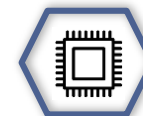
Container

Maximum Portability



Virtual Server
or VMware

Leverage Existing Images & Tools



Bare Metal

Maximum Performance & Control

Language/
Framework

.js .java
liberty

.py .php

.go

.rb

ANGULARJS

express

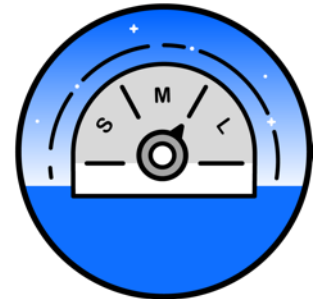
spring



Intelligent Scheduling



Self-healing



Horizontal scaling



Service discovery & load balancing



Automated rollouts and rollbacks



Secret and configuration management



IBM Cloud
Kubernetes Service

A **managed Kubernetes service** providing an intuitive user experience with on-going cluster management. Built-in **security and isolation** to enable rapid delivery of apps, while leveraging IBM Cloud Services including Weather data, IoT, Analytics, or **AI capabilities with Watson**. Available in six IBM regions WW, including **20+ datacenters**.

<https://www.ibm.com/cloud/container-service>

Kubernetes Certified Service Provider
Kubernetes Technology Partner
Kubernetes Service Providers

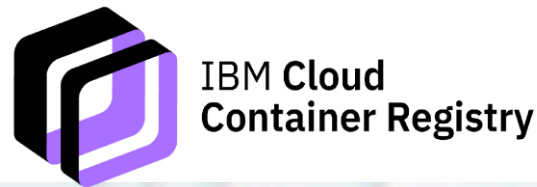


Datacenter Expansion - 6 IBM Cloud Regions, 20+ Datacenters



https://console.bluemix.net/docs/containers/cs_regions.html#regions-and-locations

Region	Location	City
AP North	hkg02, tok02, sng01	Hong Kong, Tokyo, Singapore
AP South	mel01, syd01, syd04	Melbourne, Sydney
EU Central	ams03, fra02, par01, mil01	Amsterdam, Frankfurt, Paris
UK South	lon02, lon04	London
US East	tor01, wdc06, wdc07, mon01	Toronto, Washington, DC, Montreal
US South	dal10, dal12, dal13, hou01, sao01	Dallas, Sao Paulo



Product Definition

IBM managed stand-alone Docker image registry with integrated Vulnerability Advisor.

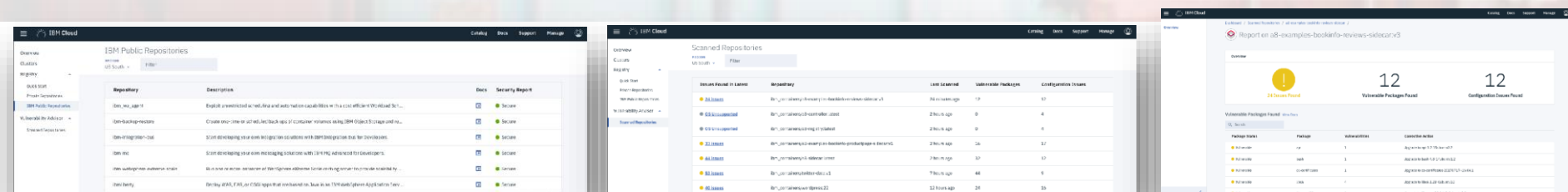
Value Proposition

IBM preferred image registry. Pre-integrated with our Kubernetes service. Secure with integration to IBM Identity and Access Manager. No need to configure and maintain storage for your images. Advanced capabilities such as vulnerability scanning, policy scanning, deployment policy enforcement, and integration to Docker Notary for image signing. The registry stores IBM curated content, open source, and customer provided images and Helm charts.

With our container service, users also have the option to deploy from an existing Docker registry (i.e., DockerHub, Quay, Artifactory, etc).

<https://console.bluemix.net/docs/services/Registry/index.html>

https://console.bluemix.net/docs/containers/va/va_index.html#va_index



Bring familiar tools to your Kubernetes clusters

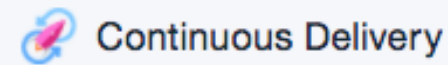
Security



Orchestration



CI/CD Pipeline



Monitoring





Red Hat OpenShift Cluster

IBM

← View All



Create a new cluster

Select a plan

Free

New to Kubernetes? Create a cluster with 1 worker node to explore the capabilities.

Free

Standard

Ready for production? Create a fully customizable cluster with your choice of hardware isolation.

Starting from \$0.08 hourly

Learn more about the differences between Free and Standard clusters in our [docs](#).

Cluster type and version



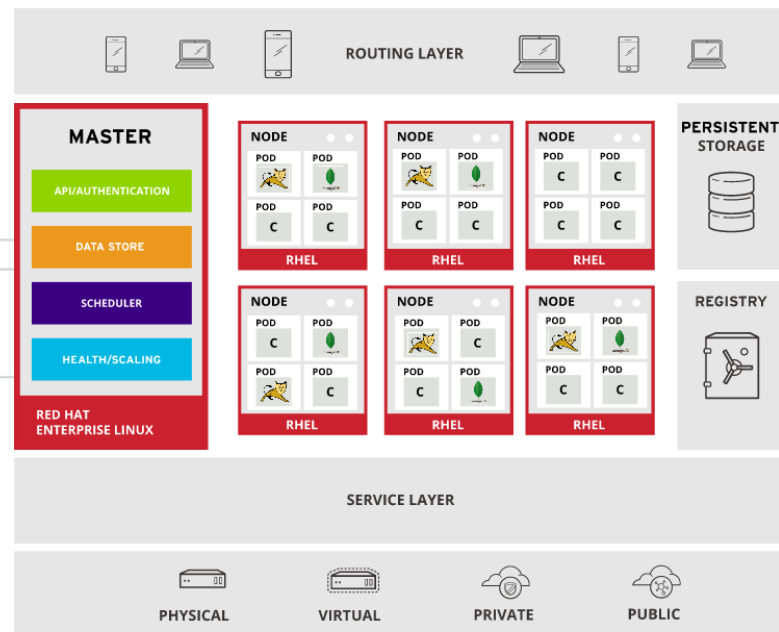
Kubernetes

1.13.8 (Stable, Default)



OpenShift

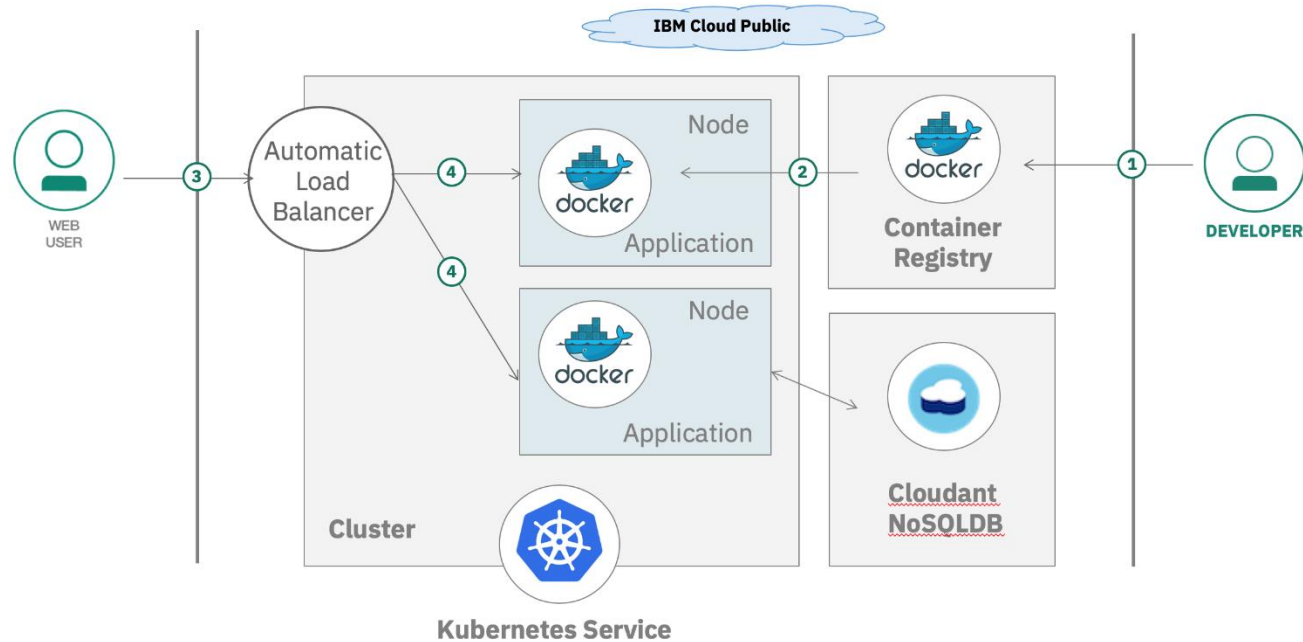
3.11.129 (Latest, Stable, Default)



IKS 實作

Configure a custom Kubernetes cluster

laasPaas Workshop - IKS.pdf



THANK YOU

Jack Wu
scwu@tw.ibm.com