kubernetes

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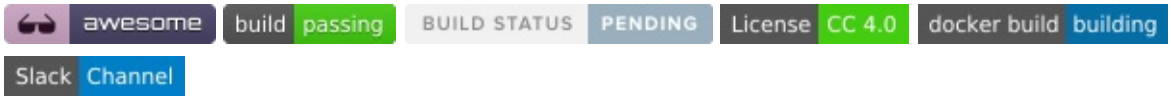
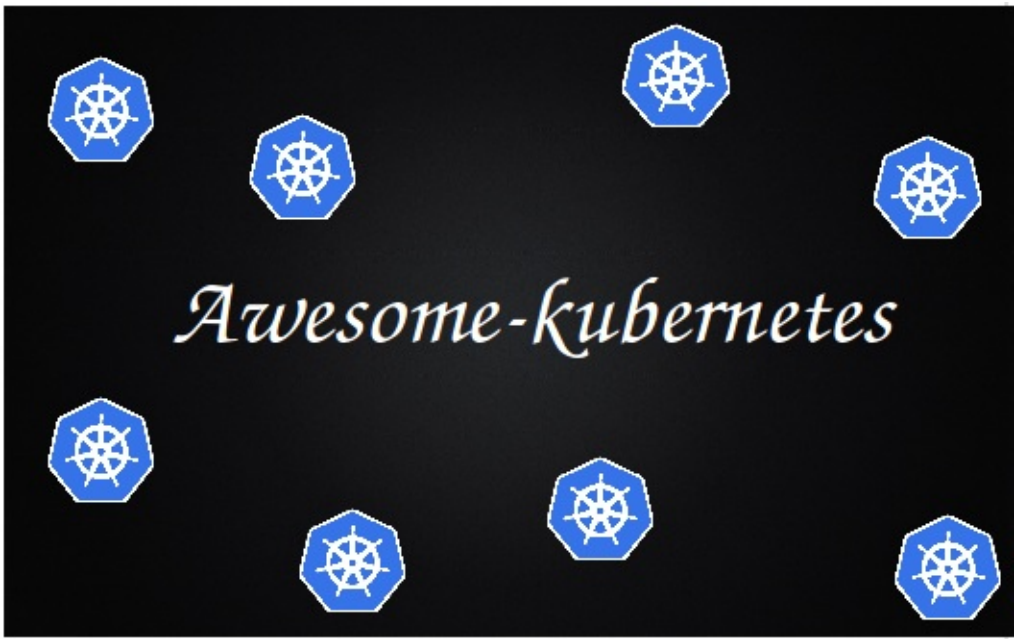
# Awesome-Kubernetes




A curated list for awesome kubernetes sources Inspired by @sindresorhus' awesome




> "Talent wins games, but teamwork and intelligence wins championships."
>
> -- Michael Jordan

Without the help from these amazing contributors, building this awesome-repo would never has been possible. Thank You very much guys !!

**Thanks to Gitbook.This awesome list can now be downloaded and read in the form of a book.Check it out --> https://www.gitbook.com/book/ramitsurana/awesome-kubernetes/ .Keep Learning Keep Sharing !!**

**If you see a package or project here that is no longer maintained or is not a good fit, please submit a pull request to improve this file. Thank you!**

# What is Kubernetes? :ship:

> Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications. It groups containers that make up an application into logical units for easy management and discovery.

*Source:* What is Kubernetes

# History:

**Kubernetes is known to be a descendant of Google's system BORG**

> The first unified container-management system developed at Google was the system we internally call Borg. It was built to manage both long-running services and batch jobs, which had previously been handled by two separate systems: Babysitter and the Global Work Queue. The latter's architecture strongly influenced Borg, but was focused on batch jobs; both predated Linux control groups.

*Source:* Kubernetes Past

# Date of Birth:

Kubernetes celebrates its birthday every year on 21st July. Kubernetes 1.0 was released on July 21 2015, after being first announced to the public at Dockercon in June 2014.

# Roadmap

The awesome-kubernetes will now soon be available in the form of different releases and package bundles, It means that you can download the awesome kubernetes release up to a certain period of time, The release for awesome kubernetes 2015 bundle is released.Checkout the releases column for more info.Stay tuned for more updates.

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# Menu

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# Starting Point

*A place that marks the beginning of a journey*

- Kubernetes Community Overview and Contributions Guide by Ihor Dvoretskyi
- Are you Ready to Manage your Infrastructure like Google?
- Google is years ahead when it comes to the cloud, but it's happy the world is catching up
- An Intro to Google's Kubernetes and How to Use It by Laura Frank
- Getting Started on Kubernetes by Rajdeep Dua
- Kubernetes: The Future of Cloud Hosting by Meteorhacks
- Kubernetes by Google by Gaston Pantana
- Key Concepts by Arun Gupta
- Application Containers: Kubernetes and Docker from Scratch by Keith Tenzer
- Learn the Kubernetes Key Concepts in 10 Minutes by Omer Dawelbeit
- Top Reasons Businesses Should Move to Kubernetes Now by Mike Johnston
- The Children's Illustrated Guide to Kubernetes by Deis
- The 'kubectl run' command by Michael Hausenblas
- Docker Kubernetes Lab Handbook by Peng Xiao
- Curated Resources for Kubernetes
- Kubernetes Comic by Google Cloud Plaatform
- Kubernetes 101: Pods, Nodes, Containers, and Clusters by Dan Sanche
- An Introduction to Kubernetes by Justin Ellingwood
- Kubernetes and everything else - Introduction to Kubernetes and it's context by Rinor Maloku

- Installation on Centos 7
- Setting Up a Kubernetes Cluster on Ubuntu 18.04

# Installers

- Minikube - Run Kubernetes locally
- Kops - OS Agnostique - AWS
- Kube-deploy
- Kubeadm - OS Agnostique - Cloud Agnostique
- Kubespray - OS Agnostique - Cloud Agnostique
- Bootkube - CoreOS - Cloud Agnostique
- Kube-aws - CoreOS - AWS
- Kismatic - CentOS - Cloud Agnostique
- Juju - Ubuntu - Cloud Agnostique
- Terraform - CoreOS - AWS
- Supergiant - CoreOS - Cloud Agnostique
- Archon - OS Agnostique - Cloud Agnostique
- KubeNow - Ubuntu - Cloud Agnostique
- Kubicorn - OS Agnostique - Cloud Agnostique
- Simplekube - `systemd` OS - Cloud Agnostique
- Conjure-up - Ubuntu - Cloud Agnostique
- Kube-ansible - OS Agnostique - Cloud Agnostique
- Kubernetes-Saltstack - `systemD` OS - Cloud Agnostique
- matchbox - CoreOS - Network boot and provision Container Linux clusters (e.g. etcd3, Kubernetes, more).
- RKE - OS Agnostique - Cloud Agnostique
- Typhoon - Container Linux - Cloud Agnostique
- Docker for Windows - Run Kubernetes and Docker locally on your Windows PC (Edge Channel)
- Docker for MAC - Run Kubernetes and Docker locally on your MAC (Edge Channel)
- MetalK8s - CentOS - On-Prem - Cloud Agnostique - Apache-2.0

# Main Resources

*Official resources from the Kubernetes team*

- Kubernetes Documentation
- Kubernetes Source

- Kubernetes Troubleshooting

# Release Notes

*Official release notes from the Kubernetes team on Stable Kubernetes Releases*

- Kubernetes-1.12
- Kubernetes-1.11
- Kubernetes-1.10
- Kubernetes-1.9
- Kubernetes-1.8
- Kubernetes-1.7
- Kubernetes-1.6
- Kubernetes-1.5
- Kubernetes-1.4
- Kubernetes-1.3
- Kubernetes-1.2

# Useful Articles

*A piece of writing included with others in a newspaper, magazine, or other publication*

## Cloud Providers

- Kubernetes on AWS by CoreOS
- AWS Advent 2014 - CoreOS and Kubernetes on AWS by Tim Dsyinger
- Kubernetes and AWS VPC Peering by Ben Straub
- Testing Kubernetes on AWS by Alan Will
- Kubernetes: First steps on Amazon AWS by Remco
- Logging in Kubernetes with Fluentd and Elasticsearch by Jon Langemak
- Manage Kubernetes Clusters on AWS Using Kops
- Corekube: Running Kubernetes on CoreOS via OpenStack by Mike Metral
- Production grade Kubernetes on AWS: Primer (Part 1) by Guy Maliar
- Production grade Kubernetes on AWS: 4 tools that made our lives easier (Part 2) by Guy Maliar
- Production grade Kubernetes on AWS: 3 tips for networking, ingress and microservices (Part 3) by Guy Maliar
- Production grade Kubernetes on AWS: 3 lessons learned scaling a cluster (Part 4) by Guy Maliar

- Continuous Deployment with Google Container Engine and Kubernetes
- Creating a Kubernetes Cluster on DigitalOcean with Python and Fabric
- Deploy a Kubernetes development cluster with Juju! by Matt Bruzek
- Containers at Scale with Kubernetes on OpenStack by Keith Tenzer

## Logging

- Logging - Kafka topic by namespace by Michael Ward

## Monitoring

- Kubernetes Monitoring Guide by JM Saponaro
- Installing cAdvisor and Heapster on bare metal Kubernetes by Jon Langemak
- How to Monitor Kubernetes: A 4-Part Series
- Microservice Monitoring in Kubernetes with Netsil by Matt Baldwin

## Security

- Kubernetes Security Guide - RBAC, TLS, Security policy, Network policy, etc.
- Handling Sensitive Data In A Docker Application with Kubernetes Secrets by John Kariuki
- How to Create and Use Kubernetes Secrets by Mohamed Ez Ez
- Kubernetes Security Best Practices by Peter Benjamin

## Authentication

- Kubernetes Authentication plugins and kubeconfig by Jon Langemak
- Kubernetes Authentication - OpenID Connect by Michael Ward

## Networking

- Enable IPv6 on Kubernetes with Project Calico by Valentin Ouvrard
- Kubernetes in IPV6-only by Valentin Ouvrard
- Kubernetes 101 – Networking by Jon Langemak
- Kubernetes with OpenStack Cloud Provider: Current state and upcoming changes (part 1 of 2)
- Comparison of Networking Solutions for Kubernetes

## CI/CD

- GitOps: High-Velocity CI/CD for Kubernetes

- Achieving CI/CD with Kubernetes by Ramit Surana
- Jenkins declarative pipelines with Kubernetes

## Deep Learning

- Automate deep learning training with Kubernetes GPU-cluster

## Others

- Packaging Multiple Resources together
- Scaling Docker with Kubernetes by Carlos Sanchez
- Creating a Kubernetes Cluster to Run Docker Formatted Container Images by Chris Negus
- Containerizing Docker on Kubernetes !! by Ramit Surana
- Quay: Introducing an Application Registry for Kubernetes by Antoine Legrand
- Play With Kubernetes Quickly Using Docker
- 1 command to Kubernetes with Docker compose by Sebastien Goasguen
- Nginx Server Deployment using Kubernetes by Rajdeep Dua
- What even is a kubelet? by Kamal Marhubi
- Kubernetes from the ground up: the API server by Kamal Marhubi
- Dynamic Kubernetes installation/configuration with SaltStack by Jon Langemak
- Deploying Kubernetes with SaltStack by Jon Langemak
- CoreOS + Kubernetes Step By Step by Coreos
- Deploying to Kubernetes with Panamax by Brian DeHamer
- Deploy Kubernetes with a Single Command Using Atomicapp by Jason Brooks
- Deploying a Bare Metal Kubernetes Cluster by James Kyle
- Try Kubernetes with Vagrant by Christoph Hartmann
- Keycloak on Kubernetes with OpenShift 3 by Marko Strukelj
- Kubernetes clusters with Oh-My-Vagrant by James
- Fleet Unit Files for Kubernetes on CoreOS by Michael Hamrah
- Kubernetes Container Orchestration through Java APIs by Keith Tenzer
- Docker Clustering Tools Compared: Kubernetes vs Docker Swarm
- Why Docker and Google Kubernetes Are Like PaaS Done Right
- Kubernetes with SaltStack revisited by Jon Langemak
- Deploying Kubernetes with Ansible and Terraform
- Cluster Consul using Kubernetes API
- Kubernetes Production Patterns (and Anti-Patterns)
- Kubernetes with SaltStack revisited
- Introducing Kubic Project
- Three post learn k8s

- Kubernetes tips & tricks
- Running Flask on Kubernetes

# Managed Kubernetes

- Platform9
- OpenShift Online
- Eldarion Cloud
- StackPoint Cloud
- Hasura

## Cluster Managers

- Cisco Container Platform
- Gardener - AWS, Azure, GCP, and OpenStack cluster manager
- Kubermatic
- Rancher
- PKS - Cluster manager by Pivotal, VMWare and Google
- Telekube
- Kqueen

### Developer Platform

- Fabric8

- Spring Cloud integration
- Mantl
- goPaddle
- VAMP
- Draft - a tool for developers to create cloud native applications with Kubernetes
- Knative - Platform to build, deploy, and manage modern serverless workloads
- DevSpace - Build, test and run code directly inside any Kubernetes cluster

## Enterprise Kubernetes Products

- CoreOS Tectonic
- OpenShift - Container Platform
- SUSE Container as a Service
- Kubermatic
- Canonical Distribution of Kubernetes - CDK

- IBM Cloud Private

### Public/Private Cloud

- GKE - Google Kubernetes Engine
- AWS EKS - Amazon Elastic Container Service
- Azure AKS - Azure Kubernetes Service
- Vsphere - VMWare VSphere
- Rackspace - Rackspace
- Alibaba Cloud - Alibaba Cloud Container Service for Kubernetes
- IKS - IBM Cloud Kubernetes Service
- Docker EE - Docker Enterprise Edition 2.0
- DigitalOcean - DigitalOcean Kubernetes

### PaaS

*Kubernetes Platform as a Service providers*

- Kel
- WSO2
- Rancher
- OpenShift Origin (OKD)
- OpenShift Online/Dedicated/Container Platform
- Eldarion Cloud
- Alauda Container Platform
- Hasura
- teresa - Simple PAAS that runs on top of Kubernetes.
- Containerum

# Interactive Learning Environments

*Learn Kubernetes using an interactive environment without requiring downloads or configuration*

- Katacoda
- Play with Kubernetes
- Kubernetes Bootcamp
- Magic Sandbox

# MOOC Courses / Tutorials

*List of available free online courses(MOOC) and tutorials*

## Courses

- Scalable Microservices with Kubernetes at Udacity
- Introduction to Kubernetes at edX

### Tutorials

- Kubernetes Tutorials by Kubernetes Team
- Kubernetes By Example by OpenShift Team
- Kubernetes Tutorial by Tutorialspoint

# Case Studies

*Study of Various different case studies*

- Building a Bank with Kubernetes
- Bringing Pokemon Go to Google Cloud
- Monitoring Kubernetes at Wayblazer
- Major League Soccer Monolith to Kubernetes Transition
- Using Kubernetes on AWS
- Kubernetes at Github
- Kubernetes the hard way (installation from scratch)

# Persistent Volume Providers

*List of some Persistent Volume Providers for Kubernetes.Check out Persistent Volume Providers for more info*

- GCE
- AWS
- Rook
- Glusterfs
- OpenStack Cinder
- CephRBD

- QuoByte
- Kube-Aliyun
- Portworx
- Rancher Longhorn
- Stork
- OpenEBS
- StorageOS

# Developer Libraries/ Scripts

*List of some libraries & scripts for executions and good referrals*

## Python

- Pykube

### Jenkins

- Jenkinsfile with Helm, Go, Docker, Kubectl, JNLP

# Projects

*Kubernetes-related projects that you might find helpful*

# Related Software

*Projects built to make life with Kubernetes even better, more powerful, more scalable*

- Argo - The Workflow Engine for Kubernetes
- Hypernetes
- Kubernetes Cluster Federation (previously Ubernetes)
- kmachine
- Kubefuse
- Kubefwd - Bulk port forwarding Kubernetes services for local development.
- KubeSpray
- Kubernetes Ec2 Autoscaler
- Kubeform
- kube-openvpn

- Archon
- Client Libraries
- Kubic-Project
- Telepresence - Locally develop/debug services against a remote Kubernetes cluster
- Fission Workflows - Workflow-based serverless function composition
- Ambassador - API Gateway built on the Envoy Proxy

# Package Managers

- Helm - For further information, please check out - Awesome Helm.

# Monitoring Services

*To maintain regular surveillance over kubernetes*

- Console
- Datadog
- eventrouter - simple introspective kubernetes service that forwards events to a specified sink.
- Grafana Kubernetes App
- Heapster
- Instana
- Kubebox - Terminal console for Kubernetes
- Kubedash
- Kubernetes Operational View - read-only system dashboard for multiple K8s clusters
- Kubetail
- Kubewatch
- Netsil
- Outcold Solutions - monitoring Kubernetes, OpenShift and Docker in Splunk Enterprise and Splunk Cloud (metrics and log forwarding)
- Prometheus
- Sysdig Monitoring
- Sysdig Open Source
- Weave Scope
- Searchlight
- Ingress Monitor Controller - A Kubernetes Controller to watch your ingresses and create liveness alerts for your endpoints
- Kubespy - Tools for observing Kubernetes resources in real time, powered by Pulumi.

# Testing

*Test your applications running on Kubernetes*

- kube-monkey - Chaos Monkey for Kubernetes clusters
- k8s-testsuite - Helm chart for network and loadtesting of a Kubernetes cluster
- Test-Infra
- Sonobuoy - Diagnostic tool that runs Kubernetes conformance tests
- PowerfulSeal - kills targeted pods and machines to test your software reliability
- Litmus - Chaos engineering for stateful workloads on Kubernetes
- Kubeadm-dind-cluster - multi-node test cluster based on kubeadm
- kind - A single node cluster to run your CI tests against thats ready in 30 seconds

# Continuous Delivery

*Build-test-deploy automated workflow software designed to make production environments more stable and life better for engineers*

- Jenkins
  - Jenkins-Kubernetes Plugin by Carlos Sanchez
  - Automated Image Builds with Jenkins, Packer, and Kubernetes
  - On-demand Jenkins slaves with Kubernetes and the Google Container Engine
  - Jenkins setups for Kubernetes and Docker Workflow
  - Lab: Build a Continuous Deployment Pipeline with Jenkins and Kubernetes
- Jenkins X - CI/CD for Kubernetes using Jenkins
- kb8or
- Wercker
- Shippable
- GitLab
- Kontinuous
- Kit
- Spinnaker
- CircleCI
- KubeCI
- Vili
- Keel
- Apollo - Open Source application providing teams with self service UI for creating and deploying their services to Kubernetes.
- Weave Flux – GitOps reconcoliation operator
- Codefresh - Kubernetes CI/CD platform (with private Docker and Helm Chart

repositories)
- k8s-deploy-helper - Framework to easily deploy Kubernetes applications via GitLab.

# Serverless Implementations

- Funktion
- Fission
- Kubeapps - set of tools (application dashboard, Serverless framework, and Secret generator) to build FaaS apps on top of Kubernetes
- Kubeless
- OpenWhisk
- Iron.io
- OpenFaaS
- FaaS-netes
- Nuclio
- Virtual Kubelet - Allows nodes to be backed by other services and providers.

# Operators

- Prometheus
- Kong API
- Kubernetes Operators
- K8s Operator Workshop
- Cert Operator
- Cert manager by @kelseyhightower
- cert-manager by @jetstack
- Operator Kit
- Container Linux Update Operator
- DB Operator
- etcd
- Elasticsearch
- Memcached
- MySQL
- MongoDB
- PostgreSQL
- PostgreSQL - manage PostgreSQL clusters using StatefulSets and Patroni.
- Couchbase
- Kafka
- KubeVirt

- Operator SDK
- kooper - Simple Go library to create Kubernetes operators and controllers

# Custom Schedulers

- Scheduler - Cost based scheduler
- Sticky Node Scheduler
- ksched - Experimental flow based scheduler
- escheduler - Written in elixir
- bashScheduler - Written in bash

# Container Support

*A list of linux containers supported by kubernetes.*

- Docker:
- Rkt
  - Rktnetes
  - rktlet - Rkt implementation of a Kubernetes
- containerd
- cri-containerd - Containerd-based implementation of Kubernetes Container Runtime Interface
- CRI-O (OCI)
- Hyper.sh/frakti - Hypervisor-based container runtime
- virtlet - Kubernetes CRI implementation for running VM workloads
- infranetes

# Database

- Apache Ignite - Memory-centric distributed database, caching, processing platform
- CockroachDB
- Cassandra / DataStax
- MongoDB
- Hazelcast
- Crate
- Minio
- Vitess - Horizontal scaling of MySql by Youtube
- RDS - Provision RDS databases via CRD from Kubernetes

# Networking

- Weave Net
- Canal by Tigera
- OpenContrail
- Nuage
- Kuryr
- Contiv
- Calico
- OpenVSwitch
- Kube-router
- Cilium
- Linen
- CNI-Genie
- Romana
- Infoblox
- External DNS - To control DNS records dynamically via Kube resources
- cni-ipvlan-vpc-k8s
- kubernetes-network-policy-recipes
- Multus-cni - Multi-homed pod cni
- Network-Controller - Open vSwitch, Multiple network interfaces that associate with Kubernetes pods
- AWS VPC CNI - Networking plugin using Elastic Network Interfaces
- NSX-T - CNI plugin supporting load balancing and distributed firewalls.

# Service mesh

- Envoy
- Amalgam8 - Acquired by Istio
- Linkerd
- Weave Mesh
- Conduit

# RPC

- gRPC
- Micro

# Secret generation and management

- CyberArk Conjur Kubernetes Authenticator - Secure your Kubernetes-deployed applications with CyberArk Conjur
- Vault auth plugin backend: Kubernetes
- Vault controller
- kube-lego
- k8sec
- kubernetes-vault
- kubesec - Secure Secret management
- Sealed Secrets
- Secure GitOps Using Weave Cloud Deploy And Bitnami's Sealed Secrets

# Web applications

- Kubernator

# Desktop applications

- Kubernetic

# Mobile applications

- Cabin
- Cockpit

# API/CLI adaptors

- click - A CLI focused REPL for quickly interacting with Kubernetes objects.
- kube-prompt - Interactive kubernetes client built using go-prompt.
- Kube-shell - Integrated shell for working with the Kubernetes CLI
- Kubebot
- kubectx - switch between clusters on kubectl
- kubens - switch between namespaces on kubectl
- StackStorm
- Kubefuse
- Ksql

- kubectld
- Kubesh - Work around kubectl
- Kubectl Aliases - Aliases for Kubectl
- Vikube - Kubernetes operations from Vim, in Vim
- kube-ps1 - Kubernetes prompt helper for bash and zsh.
- kube-tmux - Kubernetes tmux plugin to display the current context and namespace
- kubensx - Simpler Cluster/User/Namespace switching for Kubernetes (featuring interactive mode and wildcard/fuzzy matching).
- stern - Multi pod and container log tailing
- kubeplay
- kubectl-plugins - A collection of kubectl plugins handling everything from easy context switches to connecting to a container as any user (root included) via exec. Slightly tailored towards GKE users.

# Application deployment orchestration

- ElasticKube
- AppController
- Kb8or
- IBM UrbanCode
- Nulecule
- Deployment manager
- Psykube
- Brigade - Event Based Scripting using JavaScript
- Skaffold - Command line tool that facilitates continuous development for Kubernetes applications.
- Gitkube - Build and deploy docker images on Kubernetes using `git push`.

# Configuration

- Kompose
- Jsonnet
- K8comp
- Ktmpl
- Konfd
- kenv
- kubediff
- thesus - A command-line utility and importable package for comparing sets of Kubernetes objects

- Habitat
- Puppet
- Ansible
- Saltstack
- Chef
- kubegen
- kustomize - Customization using partial specs
- kapitan - Manage complex deployments using jsonnet and jinja2

# Security

- Aquasec
- Authenticator - A tool for using AWS IAM credentials to authenticate to a Kubernetes cluster
- Dex - OpenID and OAuth for Kubernetes
- Guard - Authenticaton webhook server with support for Github, Gitlab, Google, Azure and LDAP (AD) as identity providers.
- kiam - Allows cluster users to associate AWS IAM roles to Pods.
- kube-bench - The Kubernetes Bench for Security is a Go application that checks whether Kubernetes is deployed according to security best practices.
- kube-hunter - Hunt for security weaknesses in Kubernetes clusters.
- kube2iam - Provides different AWS IAM roles for pods running on Kubernetes
- Kubesec.io
- Sysdig Falco
- Sysdig Secure
- Trireme
- Twistlock

# Load balancing

- Avi Networks - Software Load Balancer | Intelligent WAF | Elastic Service Mesh
- AWS ALB Ingress Controller
- Cloudflare Warp Ingress
- Contour - Kubernetes ingress controller for Lyft's Envoy proxy
- F5 Big IP Controller
- Gimbal - Platform capable of routing traffic to multiple Kubernetes and OpenStack clusters
- Gloo - Envoy-based API gateway and ingress controller
- HAProxy Ingress

- MetalLB - load-balancer implementation for bare metal Kubernetes clusters, using standard routing protocols.
- NGINX Ingress Controller
- Nginx Plus
- Skipper - HTTP router and reverse proxy for service composition, including use cases like Kubernetes Ingress
- Traefik
- Voyager - Secure HAProxy based Ingress Controller

# Big Data

- Kube-Yarn
- Spark

# Machine Learning

- TensorFlow k8s
- mxnet-operator - Tools for ML/MXNet on Kubernetes.
- kubeflow - Machine Learning Toolkit for Kubernetes.
- seldon-core - Open source framework for deploying machine learning models on Kubernetes
- FfDL - Deep Learning Platform offering TensorFlow, Caffe, PyTorch etc. as a Service on Kubernetes
- Polyaxon - An open source platform for reproducible machine learning and deep learning on kubernetes
- MLT - Machine Learning Container Templates: easy to use container and kubernetes object templates.

# Service Discovery

- Consul
  - Kelsey Hightower Consul
  - Bridge between Kubernetes and Consul

# Operating System

- CoreOS

- Kurma
- GCI
- LinuxKit

## YAML/JSON Config

- Kube.libsonnet
- kompose
- kubeval
- kubegen

## Tuning

- Ktune

## Backup and Disaster Recovery

- Ark - Utility for managing backup and restore of Kubernetes clusters.
- burry.sh - Cloud Native backup and recovery for etcd, zookeeper and consul
- kube-backup - Sync kubernetes state to git.

# Raspberry Pi

*Some of the awesome findings and experiments on using Kubernetes with Raspberry Pi.*

- Check out Kubecloud
- Setting up a Kubernetes on ARM cluster
- Setup Kubernetes on a Raspberry Pi Cluster easily the official way! by Mathias Renner and Lucas Käldström
- How to Build a Kubernetes Cluster with ARM Raspberry Pi then run .NET Core on OpenFaas by Scott Hanselman

# Books

*A written or printed work consisting of pages glued or sewn together along one side and bound in covers that provide us with information*

- Kubernetes: Up and Running by Kelsey Hightower
- Cloud Native DevOps with Kubernetes by John Arundel, Justin Domingus (blog)
- Docker and Kubernetes Under the Hood (Chinese) by Harry Zhang, Jianbo Sun and ZJU SEL lab
- Kubernetes: Scheduling the Future at Cloud Scale by Dave K. Rensin
- Kubernetes in Action by Marko Lukša
- Kubernetes Cookbook - Second Edition by Hideto Saito, Hui-Chuan Chloe Lee, Ke-Jou Carol Hsu
- Getting Started with Kubernetes by Jonathan Baier
- Kubernetes Handbook (OpenSource Book in Chinese) by Pengfei Ni
- Mastering Kubernetes by Gigi Sayfan
- OpenShift in Action by Jamie Duncan & John Osborne
- The DevOps 2.3 Toolkit: Kubernetes by Viktor Farcic
- Kubernetes Handbook (OpenSource Book in Chinese) by Jimmy Song
- DevOps with Kubernetes by Hideto Saito, Hui-Chuan Chloe Lee, Cheng-Yang Wu
- Golden Guide to Kubernetes Application Development by Matthew Palmer
- Docker in Action, Second Edition by Jeff Nickoloff and Stephen Kuenzli
- Kubernetes Design Patterns and Extensions by Onur Yilmaz

# Slide Presentations

*A slide is a single page of a presentation created with software such as PowerPoint or OpenOffice Impress.*

- Architecture Overview by enakai00
- Package your Java EE Application using Docker and Kubernetes by Arun Gupta
- Scaling Jenkins with Docker and Kubernetes by Carlos Sanchez
- An Introduction to Kubernetes by Imesh Gunaratne
- Musings on Mesos: Docker, Kubernetes, and Beyond. by Timothy St. Clair
- Cluster management with Kubernetes by Satnam Singh
- A brief study on Kubernetes and its components by Ramit Surana
- Moving to Kubernetes - Tales from SoundCloud by Tobias Schmidt
- Kubernetes Scaling SIG (K8Scale) by Bob Wise
- Zero downtime-java-deployments-with-docker-and-kubernetes by Arjan Schaaf
- Kubernetes and CoreOS @ Athens Docker meetup by Mist.io
- Achieving CI/CD with Kubernetes by Ramit Surana
- The Top 5 Metrics to Monitor in Kubernetes

# Videos

*A recording of moving visual images made digitally or on videotape.*

## Main Account

- Google Developers
- Kubernetes

## Other Useful Videos

- Google I/O 2014 - Containerizing the Cloud with Docker on Google Cloud Platform by Google Developers
- Container Orchestration using CoreOS and Kubernetes by Kelsey Hightower
- A Technical Overview of Kubernetes by Bredan Burns
- Docker Containers and Kubernetes with Brian Dorsey by Brian Dorsey
- Alpaca Kubernetes on AWS by Adrien Lemaire
- Arun Gupta: Package your Java applications using Docker and Kubernetes by Arun Gupta
- "Managing Containers at Scale with CoreOS and Kubernetes" by Kelsey Hightower by Kelsey Hightower
- Kubernetes: The Journey So Far - Greg DeMichillie by Greg DeMichillie
- DevNation 2015 - Paul Bakker - Kubernetes: Beyond the basics by Paul Bakker
- Kubernetes-Defined Monitoring
- Testing Distributed Software on Kubernetes with PowerfulSeal at Kubecon 2017 Austin by Mikolaj Pawlikowski

# Interesting Twitter Accounts

*Twitter is quick, it's easy to communicate on, and is a very valuable social channel for a brand or business if you use it to its full potential, By following these news aggregators, rolling news channels, and companies, you can get the inside scoop of a story long before it hits the mainstream news outlets.*

- Kubernetes
- Google Cloud Platform
- Kube Con
- Kismatic
- Engine Yard

- Apcera
- CoreOS
- DevOps Summit
- KubeWeekly
- KubeFacts
- Skippbox - Acquired by Bitnami
- Sysdig

# Amazing People

- Ahmet Alp Balkan, Software Engineer at Google & Google Kubernetes Engine
- Aparna Sinha, Group Product Manager - Kubernetes at Google
- Arun Gupta, Principal Open Source Technologist at Amazon Web Services
- Brandon Philips, CTO at CoreOS
- Brendan Burns, Partner Architect at Microsoft
- Brian Grant, Principal Engineer at Google, Lead Architect of Kubernetes
- Carlos Sanchez, Senior Software Engineer, CloudBees
- Chris Aniszczyk, Chief Operating Officer at Cloud Native Computing Foundation
- Eric Tune, Senior Staff Engineer at Google
- Ihor Dvoretskyi, Developer Advocate at Cloud Native Computing Foundation
- Jessie Frazzelle, Cloud Developer Advocate at Microsoft
- Joe Beda, Founder and CTO at Heptio
- Joseph Jacks, Entrepreneur In Residence at Quantum Corporation
- Kelsey Hightower, Staff Developer Advocate at Google
- Kris Nova, Engineer at Heptio, Creator of Kubicorn
- Michelle Noorali, Software Engineer at Microsoft
- Paris Pittman, Developer Relations Manager - Kubernetes at Google
- Patrick Reilly, Office of the CTO at Cisco, Cisco board of member for CNCF
- Tim Hockin, Senior Staff SW Engineer / Engineering Manager at Google

# Meetup Groups

*An awesome way to connect with kubernauts around the globe*

- Amsterdam
- Amsterdam #2
- Atlanta
- Bangalore

- Berlin
- Boston
- Hamburg
- Hong Kong
- London
- Munich
- New York
- Paris
- Pittsburgh
- Pune
- San Francisco
- Seattle
- Worldwide

# Connecting with Kubernetes

- Blog
- Freenode
- Twitter
- Google +
- Stackoverflow
- Slack
- Mailing List (user discussion and Q&A)
- Mailing List (developer/contributor discussion)
- Reddit
- Community
- Community Q&A – The Office Hours

# Conferences

*Some must to go and attend conferences on kubernetes*

- Kubecon
- Container Camp
- GCP Next
- Docker Con
- Devoxx
- ContainerDays

# Contributing

Contributions are most welcome!

This list is just getting started, please contribute to make it super awesome.

Check out the Contributing Guidelines.

# License