



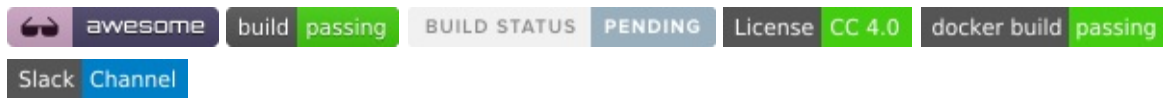
kubernetes

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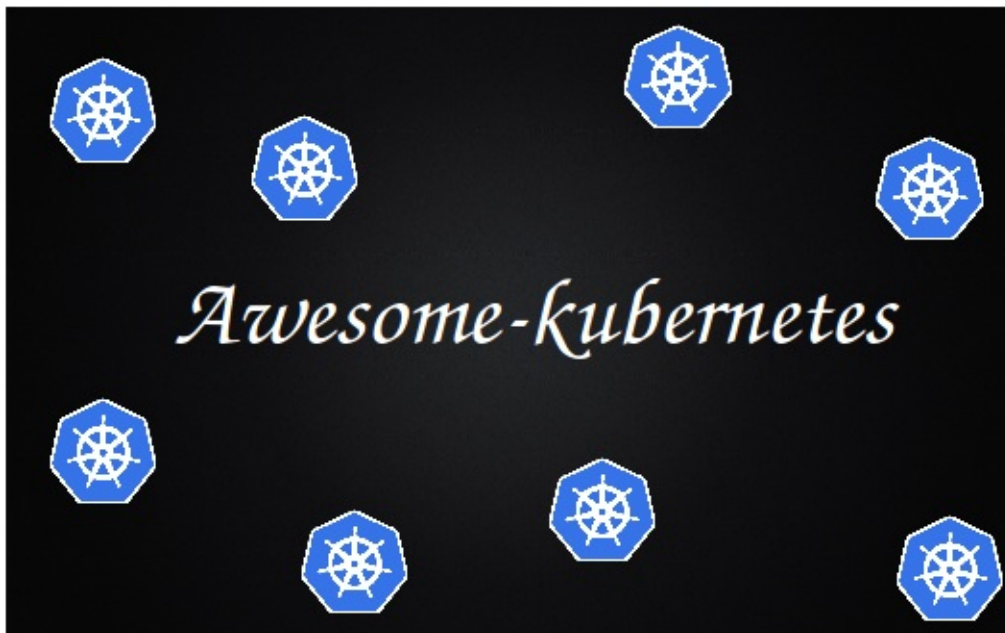
Introduction

1.1

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If you see a package or project here that is no longer maintained or is not a good fit, please submit a pull request to improve this file.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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 - [Connecting with Kubernetes](#)
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-

Starting Point

A place that marks the beginning of a journey

- [Kubernetes Community Overview and Contributions Guide](#) by Ihor Dvoretzkyi
 - [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 Platform
 - [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](#)
- [Cloud Native Landscape](#)

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
- [sealos](#) - Simple kubernetes HA installer
- [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-1.13](#)
- [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](#)

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](#)
- [Running Vault and Consul on Kubernetes](#) by [Michael Herman](#)

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](#) - integrated development platform with CD features
- [Eclipse Che](#) - cloud development workspaces with SSH and multi-user support
- [OpenShift.io](#) - hosted Fabric8 with Che and Jenkins CI integration
- [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
- [OKE](#) - Oracle Kubernetes Engine

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](#)
- [NetApp Trident](#)
- [HPE](#)
- [Hitachi](#)
- [Pure Storage](#)
- [Microsoft](#)

Container Storage Interface Plugins

List of some Container Storage Interface plugins for Kubernetes. Check out [Kubernetes-CSI](#) for more info

- [AWS EBS](#)
- [Ceph](#)
- [Cloudscale](#)
- [DigitalOcean](#)
- [DriveScale](#)
- [Ember](#)
- [Gluster](#)
- [Google Compute Engine Persistent Disk](#)
- [Hostpath](#)
- [Inmemory](#)
- [Intel PMEM-CSI](#)
- [MooseFs](#)
- [Mesos](#)
- [NetApp Trident](#)
- [Nexenta](#)
- [NFS](#)
- [Nutanix](#)
- [OpenSDS](#)

- [OpenStack Cinder](#)
- [Portworx](#)
- [Quobyte](#)
- [ScaleIO](#)
- [Virtual Filesystem](#)
- [VMware vSphere](#)

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](#)
- [kube-fledged](#) - A K8S add-on for creating and managing a cache of container images directly on cluster worker nodes
- [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
- [Bitnami Kubernetes Production Runtime](#) - Installer of a curated collection of popular services to enable logging, monitoring, certificate management, automatic discovery of Kubernetes resources via public DNS servers and other common infrastructure needs.

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](#)
- [Kubebbox](#) - Terminal console for Kubernetes
- [Kubedash](#)
- [Kubernetes Operational View](#) - read-only system dashboard for multiple K8s clusters
- [Kubetail](#)
- [Kubewatch](#)
- [Netsil](#)
- [New Relic](#) - Kubernetes monitoring and visualization service.
- [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
- [Kubespys](#) - Tools for observing Kubernetes resources in real time, powered by Pulumi.
- [Goldpinger](#) display, monitor and alert on inter-cluster connectivity

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 Operator - Kubernetes native Jenkins operator](#)
- [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 reconciliation operator](#)
- [Codefresh](#) - Kubernetes CI/CD platform (with private Docker and Helm Chart repositories)
- [k8s-deploy-helper](#) - Framework to easily deploy Kubernetes applications via GitLab.
- [Argo CD](#) - Declarative continuous deployment for Kubernetes.

Serverless Implementations

- [Funktion](#)
- [Fission](#)
- [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.
- [Goldpinger](#) display, monitor and alert on inter-cluster connectivity

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](#)
- [Kamus](#) - A GitOps, zero-trust solution for secrets encryption/decryption solution.

Web applications

- [Kubernator](#)
- [Kubeapps](#) - A web-based UI for deploying and managing applications in Kubernetes clusters

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.
- [kubectl-trace](#) - Schedule bpftrace programs on your kubernetes cluster using this kubectl plugin

Application deployment orchestration

- [ElasticKube](#)
- [AppController](#)
- [Kb8or](#)
- [IBM UrbanCode](#)
- [Nulecule](#)
- [Deployment manager](#)
- [Psykube](#)
- [Brigade](#) - Event Based Scripting using JavaScript
- [Scaffold](#) - 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](#)
- [Ktpl](#)
- [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
- [kubecfg](#) - Combines jsonnet and kubectl to let you declare systems in an easy to override way

Security

- [Aquasec](#)
- [Authenticator](#) - A tool for using AWS IAM credentials to authenticate to a Kubernetes cluster
- [Dex](#) - OpenID and OAuth for Kubernetes
- [Guard](#) - Authentication 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
- [Kubesecc.io](#)
- [Sysdig Falco](#)

- [Sysdig Secure](#)
- [Tirame](#)
- [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

- [ksonnet-lib](#)
- [kube-libsonnet](#) - Generic library of Kubernetes objects for Jsonnet/Kubecfg with object to array mapping for painless overrides.
- [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 [Kubeccloud](#)
- [Setting up a Kubernetes on ARM cluster](#)
- [Setup Kubernetes on a Raspberry Pi Cluster easily the official way!](#) by Mathias Renner and Lucas Kälström
- [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
- [Playing with Java Microservices on Kubernetes and OpenShift](#) by Nebrass Lamouchi

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](#)
- [Shanghai '18: KubeCon + CloudNativeCon](#)

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](#)
- [Skipbox](#) - 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 Dvoretzkyi](#), 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](#).

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