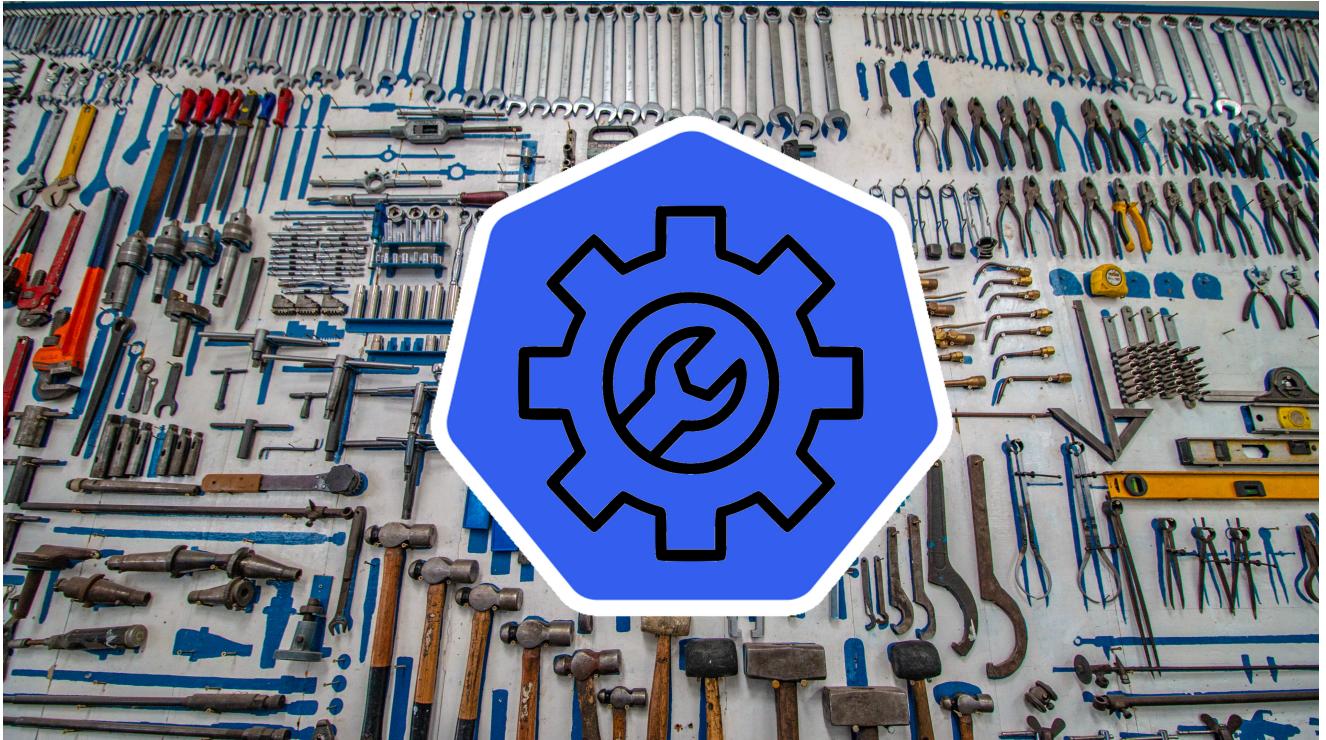


# Kubetools - A Curated List of Kubernetes Tools

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There are more than 200+ Kubernetes Certified Service Providers and tons of Kubernetes Certified distributions. Choosing a right distribution can be a daunting task. Kubetools is built with a purpose to build a curated list of popular Kubernetes tools. It is actively maintained by Collabnix Community Follow the Kubetools Twitter account for the latest entries.

Have Questions? Join us over [Slack](#) and get chance to be a part of 6400+ DevOps enthusiasts.

Want to contribute? Click [here](#) and get your favorite tool added.

## Cluster Management

kops - [Production Grade K8s Installation, Upgrades, and Management](#)

silver-surfer - [Check ApiVersion compatibility and provide Migration path for Kubernetes objects when upgrading Kubernetes to latest versions](#)

Kube-ops-view - [Kubernetes Operational View - read-only system dashboard for multiple K8s clusters](#)

kubeprompt - [Kubernetes prompt info](#)

Metalk8s - [An opinionated Kubernetes distribution with a focus on long-term on-prem deployments](#)

kind - [Kubernetes IN Docker - local clusters for testing Kubernetes](#)

Try Hands On

Clusterman - [Cluster Autoscaler for Kubernetes and Mesos](#)

Cert-manager - [Automatically provision and manage TLS certificates](#)

Goldilocks - [Get your resource requests "Just Right"](#)

katafygio - [Dump, or continuously backup Kubernetes objects as yaml files in git](#)

Rancher - [Complete container management platform](#)

Sealed Secrets - [A Kubernetes controller and tool for one-way encrypted Secrets](#)

OpenKruise/Kruise - [Automate application workloads management on](#)

[Try Hands On](#)

[Kubernetes https://openkruise.io](#)

kubectl snapshot - [Take Cluster Snapshots](#)

kapp - [simple deployment tool focused on the concept of "Kubernetes application" — a set of resources with the same label https://get-kapp.io](#)

keda - [Event-driven autoscaler for Kubernetes](#)

Octant - [To better understand the complexity of Kubernetes clusters](#)

Portainer - [Portainer inside a Kubernetes environment](#)

Gardener - [Deliver fully-managed clusters at scale everywhere with your own Kubernetes-as-a-Service](#)



## Cluster with Core CLI tools

Bootkube - [bootkube - Launch a self-hosted Kubernetes cluster](#)

kubectx + kubens - [Switch faster between clusters and namespaces in kubectl](#)

kube-shell - [Kubernetes shell: An integrated shell for working with the Kubernetes](#)

kuttle: kubectl wrapper for sshuttle without SSH - [Kubernetes wrapper for sshuttle](#)

kubectl sudo - [Run kubernetes commands with the security privileges of another user](#)

K9s - [Kubernetes CLI To Manage Your Clusters In Style!](#)

Ktunnel - [A cli that exposes your local resources to kubernetes](#)

KubeOperator - [Run kubectl command in Web Browser. https://kubeoperator.io/](#)

Vimkubectl - [Manage any Kubernetes resource from Vim](#)

<https://www.vim.org/scripts/script.ph>

KubeHelper - [KubeHelper - simplifies many daily Kubernetes cluster tasks through a web interface.](#)



## Alert and Monitoring

Thanos - [Highly available Prometheus setup with long term storage capabilities. CNCF Sandbox project. https://thanos.io](#)

Prometheus - [The Prometheus monitoring system and time series database.](#)

[Try Hands On](#)

Grafana - [The tool for beautiful monitoring and metric analytics & dashboards for Graphite, InfluxDB & Prometheus & More](#)

Kubetail - [Bash script to tail Kubernetes logs from multiple pods at the same time](#)

Searchlight - [Alerts for Kubernetes](#)

linkerd2 Monitoring Mixin for Grafana - [Grafana dashboards for linkerd2 monitoring and can](#)

work in standalone (default) or in multi cluster setup

kuberhaus - Kubernetes resource dashboard with node/pod layout and resource requests

Kubernetes Job/CronJob Notifier - This tool sends an alert to slack whenever there is a Kubernetes cronJob/Job failure/success

Argus - This tool monitors changes in the filesystem on specified paths



## Logging and Tracing

Jaeger - CNCF Jaeger, a Distributed Tracing Platform

Kiali - Kiali project, observability for the Istio service mesh

ELK - Elasticsearch, Logstash, Kibana

fluentbit - Fast and Lightweight Log processor and forwarder for Linux, BSD and OSX

Loki - Like Prometheus, but for logs




## Troubleshooting

Kubectl-debug - Allows you to run a new container with all the troubleshooting tools installed in running pod for debugging purposed

PowerfulSeal - A powerful testing tool for Kubernetes clustersd

Crash-diagnostic - Crash-Diagnostics is a tool to help investigate, analyze, and troubleshoot unresponsive or crashed Kubernetes clustersd

K9s - Kubernetes CLI To Manage Your Clusters In Style!d

Kubernetes CLI Plugin - Doctor - kubectl cluster triage plugin for k8s -  (brew doctor equivalent)d

Knative Inspect - A light-weight debugging tool for Knative's system componentsd

Kubeman - To find information from Kubernetes clusters, and to investigate issues related to Kubernetes and Istiod

kpxec - kpxec is a kubernetes cli that runs commands in a container with high privilegesd



## Development Tools/Kit

Okteto: A Tool for Cloud Native Developers - Build better applications by developing and testing your code directly in Kubernetes

Tilt: Tilt manages local development instances for teams that deploy to Kubernetes - Local Kubernetes development with no stress

Garden: Kubernetes from source to finish - Development orchestrator for Kubernetes, containers and functions.

KuberNix - Single dependency Kubernetes clusters for local testing, experimenting and development

Copper - A configuration file validator for Kubernetes

ko - Build and deploy Go applications on Kubernetes

Dekorate - Java annotation processors for Kubernetes

Lens IDE [The Kubernetes IDE -

Kosko - [Organize Kubernetes manifests in JavaScript](#)

Telepresence - [Fast, local development for Kubernetes and Openshift microservices](#)

Monokle - [Desktop UI for managing Kubernetes manifests](#)



## Alternative Tools for Developement

Minikube - [minikube implements a local Kubernetes clusterd](#)

KubeSphere - [Easy-to-use Production Ready Container Platform https://kubesphere.io](#)

skippbox - [A Desktop application for k8sd](#)

kind - [Kubernetes IN Docker - local clusters for testing Kubernetes https://kind.sigs.k8s.io/d](#)

k3d - [k3d is a lightweight wrapper to run k3s \(Rancher Lab's minimal Kubernetes distribution\) in docker.d](#)



## CI/CD integration Tools

HybridK8s Droid - [Intelligence foor your favourite Delivery Platform](#)

Devtron - [Software Delivery Workflow for Kubernetes](#)

[Try Hands On](#)

Scaffold - [Easy and Repeatable Kubernetes Development](#)

Apollo - [Apollo - The logz.io continuous deployment solution over kubernetes](#)

Helm Cabin - [Web UI that visualizes Helm releases in a Kubernetes cluster](#)

flagger - [Progressive delivery Kubernetes operator \(Canary, A/B Testing and Blue/Green deployments\)](#)

Kubeform - [Kubernetes CRDs for Terraform providers https://kubeform.com](#)

Spinnaker - [Spinnaker is an open source, multi-cloud continuous delivery platform for releasing software changes with high velocity and confidence. http://www.spinnaker.io/](#)

werf - [GitOps tool to deliver apps to Kubernetes and integrate this process with GitLab and other CI tools](#)

Flux - [GitOps Kubernetes operator](#)

Argo CD - [Declarative continuous deployment for Kubernetes](#)

[Try Hands On](#)

Tekton - [A cloud native continuous integration and delivery \(CI/CD\) solution](#)

Jenkins X - [Jenkins X provides automated CI+CD for Kubernetes with Preview Environments on Pull Requests using Tekton, Knative, Lighthouse, Scaffold and Helm](#)



## Security Tools

TerraScan - [Detect compliance and security violations across Infrastructure as Code to mitigate risk before provisioning cloud native infrastructure.](#)

klum - [Kubernetes Lazy User Manager](#)

Kyverno - [Kubernetes Native Policy Management https://kyverno.io](#)

[Try Hands On](#)

kiosk - [kiosk office Multi-Tenancy Extension For Kubernetes - Secure Cluster Sharing & Self-Service Namespace Provisioning](#)



kube-bench - [CIS Kubernetes Benchmark tool](#)

kube-hunter - [Pentesting tool](#) - Hunts for security weaknesses in Kubernetes clusters

kube-who-can - [Show who has RBAC permissions to perform actions on different resources in Kubernetes](#)

starboard - [Kubernetes-native security toolkit](#)

Simulator - [Kubernetes Security Training Platform](#) - Focussing on security mitigation

RBAC Lookup - [Easily find roles and cluster roles attached to any user, service account, or group name in your Kubernetes cluster](#) <https://fairwinds.com>

Kubeaudit - [kubeaudit helps you audit your Kubernetes clusters against common security controls](#)

Gangway - [An application that can be used to easily enable authentication flows via OIDC for a kubernetes cluster](#)

Audit2rbac - [Autogenerate RBAC policies based on Kubernetes audit logs](#)

Chartsec - [Helm Chart security scanner](#)

kubestriker - [Security Auditing tool](#)

Datree - [CLI tool to prevent K8s misconfigurations by ensuring that manifests and Helm charts follow best practices as well as your organization's policies](#)

Krane - [Kubernetes RBAC static Analysis & visualisation tool](#)

Falco - [The Falco Project](#) - Cloud-Native runtime security

Clair - [Vulnerability Static Analysis for Containers](#)



## Network Policies

trireme-kubernetes - [Aporeto integration with Kubernetes Network Policies](#)

Calico - [Cloud native connectivity and network policy](#)

kubepox - [Kubernetes network Policy eXploration tool](#)

kokotap - [Tools for kubernetes pod network tapping](#)

Submariner - [Connect all your Kubernetes clusters, no matter where they are in the world](#)

egress-operator - [An operator to produce egress gateway pods and control access to them with network policies](#)

kubefwd (Kube Forward) - [Bulk port forwarding Kubernetes services for local development](#)



## Testing Tools

trireme-kubernetes - [Aporeto integration with Kubernetes Network Policies](#)

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## Service Mesh

Istio - [Connect, secure, control, and observe services](#)

Traefik - [The Cloud Native Edge Router](#)

NGINX Ingress Controller - [NGINX and NGINX Plus Ingress Controllers for Kubernetes](#)

Autopilot - [THE SERVICE MESH SDK](#)

linkerd-config - [A Kubernetes controller that knows how to reconcile the Linkerd configuration](#)

Kong - [Kong for Kubernetes: the official Ingress Controller for Kubernetes](#)

OSM - [Open Service Mesh \(OSM\) is a lightweight, extensible, cloud native service mesh](#)

Layer5 - [Layer5, the service mesh company, representing every service mesh](#)

Gloo Mesh - [The Service Mesh Orchestration Platform](#)

APISIX - [Apache APISIX is a dynamic, real-time, high-performance API gateway.](#)

Contour - [High performance ingress controller for Kubernetes](#)



## Observability

Kubespys - [Tools for observing Kubernetes resources in real time](#)

Popeye - [A Kubernetes cluster resource sanitizer](#)

Stern - [Multi pod and container log tailing for Kubernetes](#)

Cri-tools - [CLI and validation tools for Kubelet Container Runtime Interface \(CRI\)](#)

Kubebox - [Terminal and Web console for Kubernetes](#)

Kubewatch - [Watch k8s events and trigger Handlers](#)

kube-state-metrics - [Add-on agent to generate and expose cluster-level metrics](#)

Sloop - [Kubernetes History Visualization](#)

kubect! tree 🌲 - [Kubect! plugin to observe object hierarchies through ownerReferences](#)

chaoskube - [chaoskube periodically kills random pods in your Kubernetes cluster](#)

BotKube - [Helps you monitor your Kubernetes cluster\(s\), debug critical deployments and gives recommendations for standard practices](#)

Kubestone - [Kubestone is a benchmarking Operator that can evaluate the performance of Kubernetes installations](#)

Chaos Mesh - [A Chaos Engineering Platform for Kubernetes](#)

Lemur - [LEMUR: Observability and Context](#)

kubernetes-event-exporter - [Export Kubernetes events to multiple destinations with routing and filtering](#)

Kubevious - [Kubevious provides a usable and highly graphical interface for Kubernetes](#)



## Machine Learning/Deep Learning

Kubeflow - [Machine Learning Toolkit for Kubernetes](#)

Volcano - [A Kubernetes Native Batch System](#)



## Compute Edge Tools

KubeEdge - [Kubernetes Native Edge Computing Framework](#)

Kubeless - [Kubernetes Native Serverless Framework](#)



## Kubernetes Tools for Specific Cloud

Kubernetes on AWS (kube-aws) - [A command-line tool to declaratively manage Kubernetes clusters on AWS](#)

Draft: Streamlined Kubernetes Development - [A tool for developers to create cloud-native applications on Kubernetes](#)

helm-ssm - [A low dependency tool for retrieving and injecting secrets from AWS SSM into Helm](#)

Skupper - [Multicloud communication for Kubernetes](#)



## Storage Providers

ChubaoFS - [distributed file system and object storage](#)

Longhorn - [Cloud-Native distributed block storage built on and for Kubernetes](#)

OpenEBS - [Kubernetes native - hyperconverged block storage with multiple storage engines](#)

Rook - [Storage Orchestration for Kubernetes](#)

SeaweedFS - [Distributed file system supports read-write many volumes](#)

TiKV - [Distributed transactional key-value database](#)

velero - [Backup and migrate Kubernetes applications and their persistent volumes](#)

Vitess - [Vitess is a database clustering system for horizontal scaling of MySQL](#)

kaDalu - [A lightweight Persistent storage solution for Kubernetes / OpenShift using GlusterFS in background](#)



## Multiple Tools Repo

Chaos Toolkit Kubernetes Support - [Kubernetes driver extension of the Chaos Toolkit probes and actions API](#)

k14s - [Kubernetes Tools that follow Unix philosophy to be simple and composable](#)

Pulumi - [Pulumi - Modern Infrastructure as Code. Any cloud, any language. Give your team cloud superpowers rocket https://www.pulumi.com](#)



## Non-Categorize

Rudr - [A Kubernetes implementation of the Open Application Model specification](#)

Keel - [Kubernetes Operator to automate Helm, DaemonSet, StatefulSet & Deployment](#)

[updates](#)

Cabin, the mobile app for Kubernetes - [The Mobile Dashboard for Kubernetes](#)

Funktion - [CLI tool for working with funktion](#)

Alterant - [A simple Kubernetes configuration modifier](#)

BUCK - [Brigade Universal Controller for Kubernetes](#)

kube-fledged - [A kubernetes add-on for creating and managing a cache of container images directly on the cluster worker nodes, so application pods start almost instantly](#)

Kubecost - [Cross-cloud cost allocation models for workloads running on Kubernetes](#)

kpt - [toolkit to help you manage, manipulate, customize, and apply Kubernetes Resource configuration](#)

capsule - [Capsule helps to implement a multi-tenancy and policy-based environment in your Kubernetes cluster](#)



## Maintainers

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Last Updated: 2 Mar, 2022

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