Por qué aprender Kubernetes?

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ESTRUCTURA

- Qué es Kubernetes?
- Por qué aprender Kubernetes?
- Cómo aprender Kubernetes?
- Certificarse o no ?
- Los mejores recursos
- Extras

Qué es Kubernetes?

Parte 01

Kubernetes [1]

Proyecto que surgió de Google como una **plataforma de orquestación de contenedores** de código abierto.
Construido a partir de las lecciones aprendidas en las experiencias de desarrollo y ejecución de Borg [2] y Omega de Google.
Diseñado desde cero como una colección de componentes poco acoplados centrados en la implementación, el mantenimiento y la ampliación de cargas de trabajo.

[2] https://static.googleusercontent.com/media/research.google.com/en/pubs/archive/43438.pdf

2. Por qué aprender Kubernetes?

Dinero

Tienen el vicio de comer tres veces al día

Desafio

Si te gusta Elder Ring te encantara Kubernetes

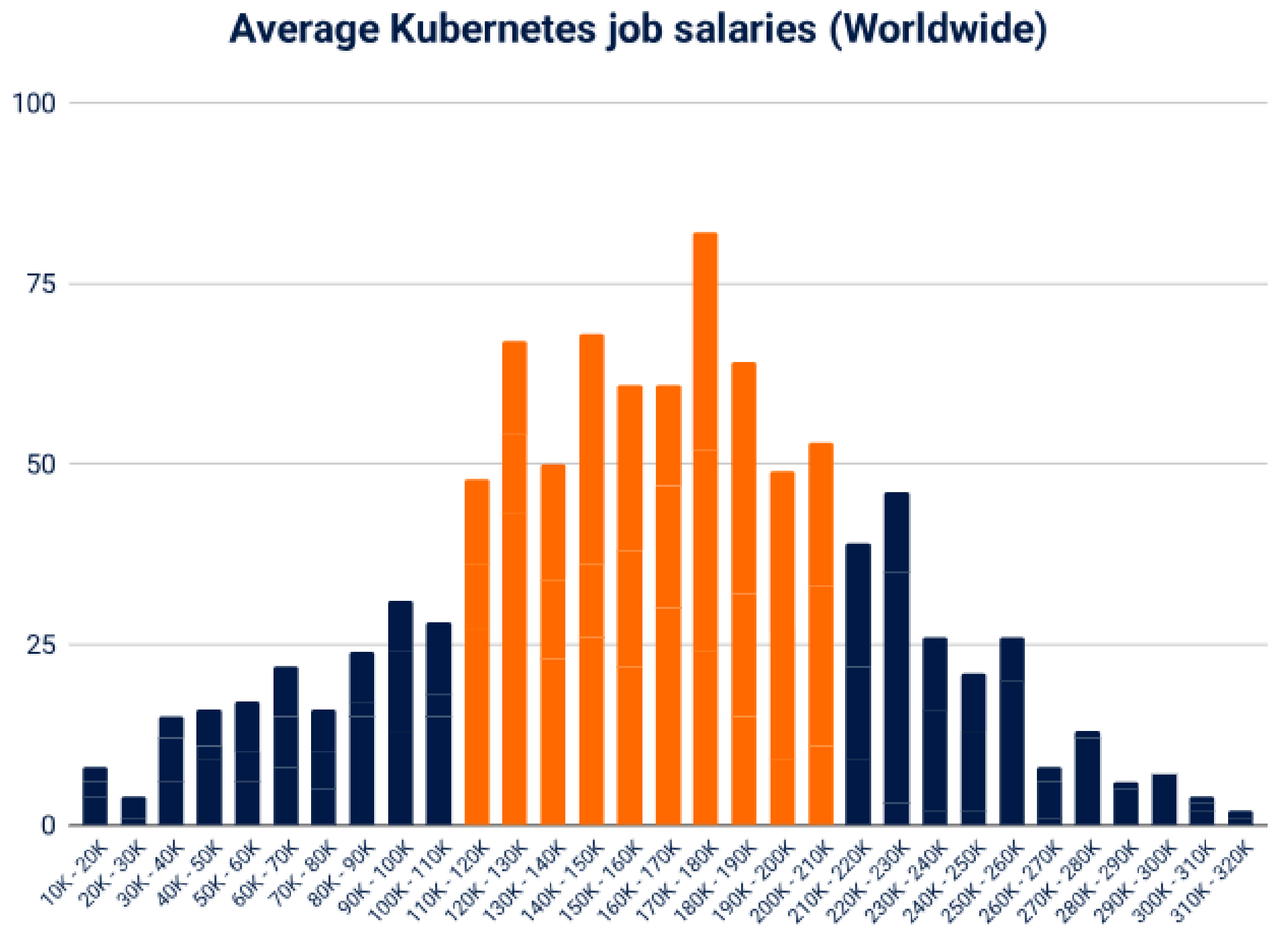
Diversión

Utilizar una herramienta tan compleja suela ofrecerte mucha variedad de trabajos

Dinero

Aprende algo dinero - MC Dinero

On average, it pays a minimum of **$135,692** and a maximum of **$188,823.**



[3] https://static.kube.careers/trend-report-2024q1.v1.pdf

Desafio

https://collabnix.github.io/kubetools/

KUBETOOLS PERIODIC TABLE

1 **H** Helm Deployment																	2 **He** HelmCabin CI/CD
3 **Li** Linkerd Service Mesh	4 **Be** Bazel Testing Tool											5 **B** Bitnami Deployment	6 **C** Cert-Manager Security	7 **N** Netshoot Networking	8 **O** Okteto Development	9 **F** Flagger CI/CD	10 **Ne** Netassert Networking
11 **Na** Naml Deployment	12 **Mg** Miniikube Cluster Creation											13 **Al** Apollo CI/CD	14 **Si** Starboard Security	15 **P** Prometheus Nonmetal	16 **S** Skaffold Deployment	17 **Cl** Civo Cluster Management	18 **Ar** Audit2rbac Security
19 **K** KubeVirt Cluster Management	20 **Ca** Calico Networking	21 **Sc** KubiScan Cluster Management	22 **Ti** Thanos Alert and Monitoring	23 **V** Vcluster Cluster Management	24 **Cr** ConfigMap K8s Objects	25 **Mn** Monokle Development	26 **Fe** Fluentd Logging	27 **Co** ClusterMan Cluster Management	28 **Ni** Node Problem Detector Cluster Management	29 **Cu** ChartSec Security	30 **Zn** GVisor Dev Tool	31 **Ga** Garden Development	32 **Ge** Gangway Security	33 **As** Akri Edge	34 **Se** Sealed Secrets Security	35 **Br** Bamboo CI/CD	36 **Kr** KubeForm CI/CD
37 **Rb** Robusta Observability	38 **Sr** Skaffold CI/CD	39 **Y** YAML K8s Objects	40 **Zr** zookeeper Cluster Management	41 **Nb** Nuclio FaaS	42 **Mo** Mokbox Cluster Management	43 **Tc** Telepresence Cluster Management	44 **Ru** RBAC Lookup Security	45 **Rh** Reef CI/CD	46 **Pd** PipeCD CI/CD	47 **Ag** ArgoCD CI/CD	48 **Cd** Clair Security	49 **In** Ingress Networking	50 **Sn** Spinnaker CI/CD	51 **Sb** Submarine Network Policies	52 **Te** TerraScan Security	53 **I** Istio Service Mesh	54 **Xe** Xenon Cluster Management
55 **Cs** Chaoskube Observability	56 **Ba** Botkube Observability		72 **Hf** Hwameistor Storage Provider	73 **Ta** Tekton CI/CD	74 **W** Werf CI/CD	75 **Re** Rook Storage Provider	76 **Os** Otterize Security	77 **Ir** Inspektor Gadget Troubleshooting	78 **Pt** Paralus Security	79 **Au** Aptakube Development	80 **Hg** Hubble Security	81 **Tl** Tilt Developer Kit	82 **Pb** Pulumi Cluster Management	83 **Bi** Buildpacks Deployment	84 **Po** Portainer Cluster Management	85 **At** Autopilot Service Mesh	86 **Rn** RKE Cluster Management
87 **Fr** Flex CI/CD	88 **Ra** Rancher Cluster Management		104 **Rf** Routernetes Cluster Management	105 **Db** Datree Security	106 **Sg** Scope Alert & Monitoring	107 **Bh** BUCK Controller	108 **Hs** HybridK8s CI/CD	109 **Mt** MetalLB Transition Metal	110 **Ds** Drone CI/CD	111 **Rg** Rudr Cluster Tool	112 **Cn** Chaos Toolkit Extensions	113 **Nh** Nerdctl CLI Tool	114 **Fl** Flagger CI/CD	115 **Mc** MicroK8s Compute Edge	116 **Lv** Lusca Security	117 **Ts** Traeffik Networking	118 **Og** OpenEBS Storage Provider

57 **La** Layer5 Servie Mesh	58 **Ce** Cloudtty CoreCLI	59 **Pr** Pachyderm Orchestration	60 **Ne** network-mapper Networking	61 **Pm** Prometheus Observability	62 **Sm** Spiderpool Network Policies	63 **Eu** Egress-Operator Network Policies	64 **Gd** Gatekeeper Network Policies	65 **Tb** TiKV Storage Provider	66 **Dy** Devtron CI/CD	67 **Ho** Headlamp Observability	68 **Er** Erda Deployment	69 **Tm** Tracetest Observability	70 **Yb** Yupd Cluster Management	71 **Lu** Lemur Observability
89 **Ac** active-minitor Monitoring	90 **Th** Theia Observability	91 **Pa** Prow Deployment	92 **U** Uffizi Infrastructure	93 **Np** Npviz Network Policies	94 **Pu** Pumba Chaos Engineering	95 **Am** aiac AI	96 **Cm** Cilium Network Policies	97 **Bk** Bke Cluster Management	98 **Cf** Colima Container Runtime	99 **Es** Escalator Autoscaler	100 **Fm** Fission FaaS	101 **Md** Mico AI	102 **No** Nocalhost Development	103 **Lr** LoxiLB Network Poilicies

Diversión

Cómo aprender Kubernetes?

Parte 02

Recursos para aprender Kubernetes

https://www.okteto.com/blog/kubernetes-basics/

https://www.pluralsight.com/browse/kubernetes-training

https://roadmap.sh/kubernetes

https://kodekloud.com/learning-path/kubernetes/

https://medium.com/wisemonks/how-to-learn-kubernetes-complete-roadmap-resources-with-images-2f659246327c

https://devopscube.com/learn-kubernetes-complete-roadmap/

Deberia certificarme?

Part 03


YES!

Primera certificación

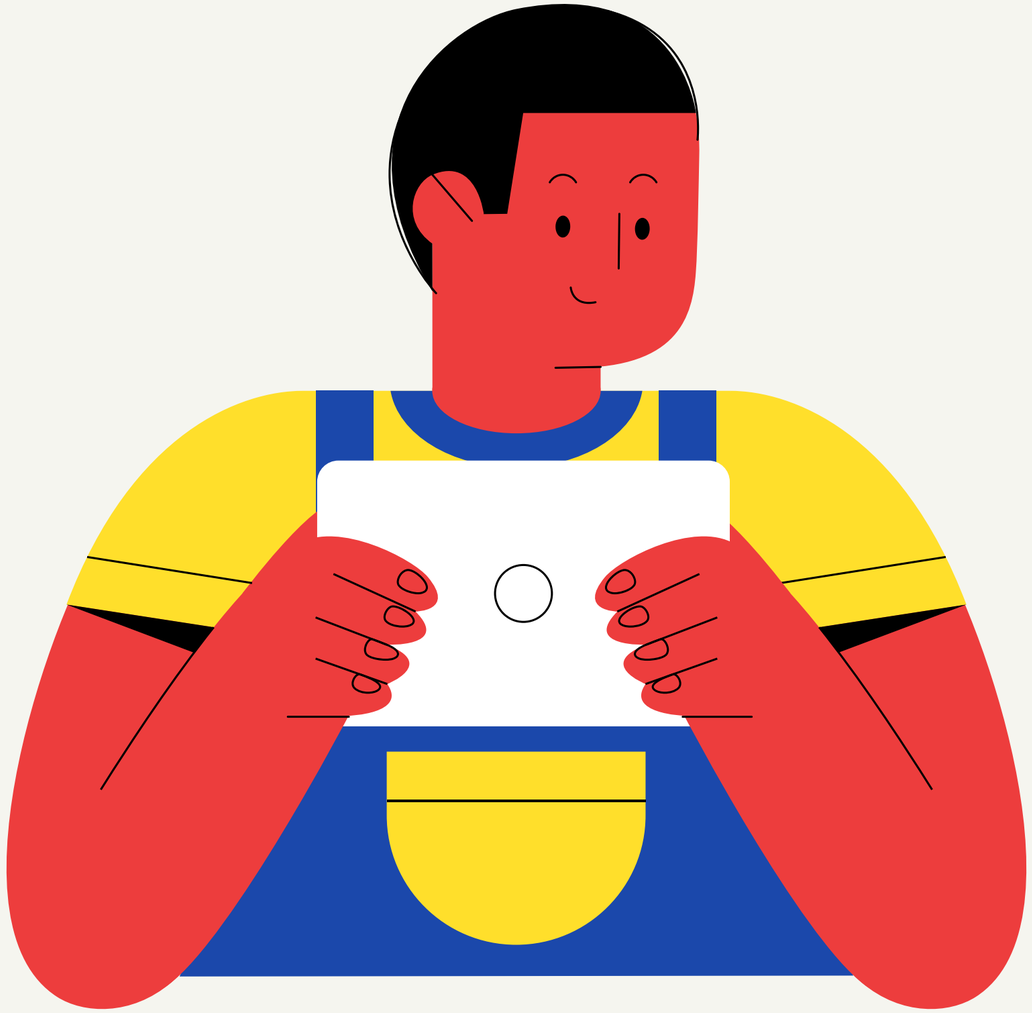
Certified Kubernetes Administrator (CKA) | Linux Foundation Education

Training in skills, knowledge, and competency to perform the responsibilities of Kubernetes administrators and become a CKA.

Linux Foundation /

Extra

Part 04



abiosoft/colima: Container runtimes on macOS (and Linux) with minimal setup

Container runtimes on macOS (and Linux) with minimal setup - abiosoft/colima

GitHub

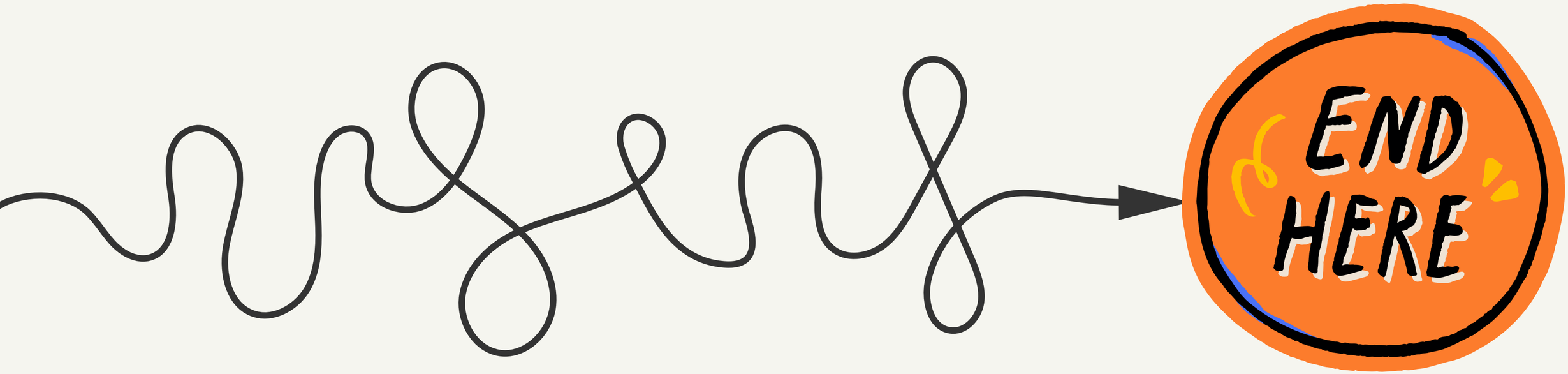
The Illustrated Children’s Guide to Kubernetes

Brought to you by... Written by: Matt Butcher and Karen Chu Illustrated by: Bailey Beougher Illustration of Goldie is based on the Go Gopher designed by Renee French Phippy, Goldie, Captain Kube...

CNCF

Google - Site Reliability Engineering

sre.google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